



PUBLICATION LIST ON HYDROSHEAR USE (to 21 March 2017)

2017.

Methods and systems for storing sequence read data.

Inventors: Caleb Kennedy, and Niru Chennagiri.

United States Patent: US 9535920 B2, Publication Date: 3 January 2017.

<https://www.google.com/patents/US9535920>

Personalized genome sequencing coupled with iPSC technology identifies *GTDC1* as a gene involved in neurodevelopmental disorders.

Irene Aksoy, Kagistia H. Utami, Cecilia L. Winata, Axel M. Hillmer, Sigrid L. Rouam, Sylvain Briault, Sonia Davila, Lawrence W. Stanton, and Valere Cacheux.

Human Molecular Genetics, 15 January 2017; 26(2): 367-382.

Genome sequencing and analysis of *Kloeckera apiculata* strain 34-9, a biocontrol agent against postharvest pathogens in citrus.

Kai Chen, Xiaoping Yang, Feng Zheng, and Chao-an Long.

Genes & Genomics, January 2017; 39(1): 87-99.

Ubiquitous marine bacterium inhibits diatom cell division.

Helena M. van Tol, Shady A. Amin, and E. Virginia Armbrust.

The ISME Journal, January 2017; 11(1): 31-42.

DNA amplification and sequencing using DNA molecules generated by random fragmentation.

Inventors: Vladimir L. Makarov, Irina Sleptsova, Emmanuel Kamberov, and Eric Bruening.

US Patent Application: 2017/0037460 A1, Publication Date: 9 February 2017.

<http://www.freepatentsonline.com/y2017/0037460.html>

Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus *Aspergillus*.

Ronald P. de Vries, Robert Riley, Ad Wiebenga, Guillermo Aguilar-Osorio, Sotiris Amillis, Cristiane Akemi Uchima, Gregor Anderlueh, Mojtaba Asadollahi, Marion Askin, Kerrie Barry, Evy Battaglia, Özgür Bayram, Tiziano Benocci, Susanna A. Braus-Stromeyer, Camila Caldana, David Cánovas, Gustavo C. Cerqueira, Fusheng Chen, Wanping Chen, Cindy Choi, Alicia Clum, Renato Augusto Corrêa dos Santos, André Ricardo de Lima Damásio, George Diallinas, Tamás Emri, Erzsébet Fekete, Michel Flipphi, Susanne Freyberg, Antonia Gallo, Christos Gournas, Rob Habgood, Matthieu Hainaut, Maria Laura Harispe, Bernard Henrissat, Kristiina S. Hildén, Ryan Hope, Abeer Hossain, Eugenia Karabika, Levente Karaffa, Zsolt Karányi, Nada Kraševc, Alan Kuo, Harald Kusch, Kurt LaButti, Ellen L. Lagendijk, Alla Lapidus, Anthony Levasseur, Erika Lindquist, Anna Lipzen, Antonio F. Logrieco, Andrew MacCabe, Miia R. Mäkelä, Iran Malavazi, Petter Melin, Vera Meyer, Natalia Mielnichuk, Márton Miskei, Ákos P. Molnár, Giuseppina Mulé, Chew Yee Ngan, Margarita Orejas, Erzsébet Orosz, Jean Paul Ouedraogo, Karin M. Overkamp, Hee-Soo Park, Giancarlo

Perrone, Francois Piumi, Peter J. Punt, Arthur F. J. Ram, Ana Ramón, Stefan Rauscher, Eric Record, Diego Mauricio Riaño-Pachón, Vincent Robert, Julian Röhrig, Roberto Ruller, Asaf Salamov, Nadhira S. Salih, Rob A. Samson, Erzsébet Sándor, Manuel Sanguinetti, Tabea Schütze, Kristina Sepčić, Ekaterina Shelest, Gavin Sherlock, Vicky Sophianopoulou, Fabio M. Squina, Hui Sun[^], Antonia Susca, Richard B. Todd, Adrian Tsang, Shiela E. Unkles, Nathalie van de Wiele, Diana van Rossen-Uffink, Juliana Velasco de Castro Oliveira, Tammi C. Vesth, Jaap Visser, Jae-Hyuk Yu, Miaomiao Zhou, Mikael R. Andersen, David B. Archer, Scott E. Baker, Isabelle Benoit, Axel A. Brakhage, Gerhard H. Braus, Reinhard Fischer, Jens C. Frisvad, Gustavo H. Goldman, Jos Houbraeken, Berl Oakley, István Pócsi, Claudio Scazzocchio, Bernhard Seiboth, Patricia A. vanKuyk, Jennifer Wortman, Paul S. Dyer and Igor V. Grigoriev
Genome Biology, 14 February 2017; 18(1): 28, 45 pp.
<https://genomebiology.biomedcentral.com/articles/10.1186/s13059-017-1151-0>

[The house spider genome reveals an ancient whole-genome duplication during arachnid evolution.](#)

Evelyn E. Schwager, Prashant P. Sharma, Thomas Clarke, Daniel J. Leite, Torsten Wierschin, Matthias Pechmann, Yasuko Akiyama-Oda, Lauren Esposito, Jesper Bechsgaard, Trine Bilde, Alexandra D Buffry, Hsu Chao, Huyen Dinh, HarshaVardhan Doddapaneni, Shannon Dugan, Cornelius Eibner, Cassandra G Extavour, Peter Funch, Jessica Garb, Luis Gonzalez, Vanessa L Gonzalez, Sam Griffiths-Jones, Yi Han, Cheryl Hayashi, Maarten Hilbrant, Daniel S T Hughes, Ralf Janssen, Sandra L Lee, Ignacio Maeso, Shwetha C Murali, Donna M Muzny, Rodrigo Nunes da Fonseca, Christian L B Paese, Jiaxin Qu, Matthew Ronshaugen, Christoph Schomburg, Anna Schoenauer, Angelika Stollewerk, Montserrat Torres-Oliva, Natascha Turetzek, Bram Vanthournout, John H Werren, Carsten Wolff, Kim C Worley, Gregor Bucher, Richard A Gibbs, Jonathan Coddington, Hiroki Oda, Mario Stanke, Nadia A Ayoub, Nikola-Michael Prpic, Jean-Francois Flot, Nico Posnien, Stephen Richards, Alistair P McGregor
bioRxiv, 20 February 2017; 106385, 73 pp.
<http://biorxiv.org/content/early/2017/02/20/106385.full.pdf+html>

[Characterization of four endophytic fungi as potential consolidated bioprocessing hosts for conversion of lignocellulose into advanced biofuels.](#)

Weihua Wu, Ryan W. Davis, Mary Bao Tran-Gyamfi, Alan Kuo, Kurt LaButti, Sirma Mihaltcheva, Hope Hundley, Mansi Chovatia, Erika Lindquist, Kerrie Barry, Igor V. Grigoriev, Bernard Henrissat, John M. Gladden
Applied Microbiology and Biotechnology, March 2017; 101(6): 2603–2618

[Preparation of an 8-kb mate-pair library for Illumina sequencing.](#)

Elaine Mardis, and W. Richard McCombie.
Cold Spring Harbor Protocols, publ. ahead of print 1 November 2016; doi: 10.1101/pdb.prot094664

[The *Lolium* pathotype of *Magnaporthe oryzae* recovered from a single blasted wheat plant in the United States.](#)

Mark Farman, Gary L. Peterson, Li Chen, John Howard Starnes, Barbara Valent, Paul Bachi, Lloyd Murdock, Donald E Hershman, Kerry F. Pedley, J Maurício Cunha Fernandes, and Jorge Bavaresco
Plant Disease, 2017; ahead of print

[Genome Sequencing](#)

Mansi Verma, Samarth Kulshrestha, and Ayush Puri.

Methods Molecular Biology, 2017; 1525(*Bioinformatics: Data, Sequence Analysis, and Evolution*): 3-33.

Construction of Small-Insert and Large-Insert Metagenomic Libraries.

Carola Simon, and Rolf Daniel.

Methods Molecular Biology, 2017; 1539(*Metagenomics: Methods and Protocols*): 1-12.

A Fosmid Pool-Based Next Generation Sequencing Approach to Haplotype-Resolve Whole Genomes.

Eun-Kyung Suk, Sabrina Schulz, Birgit Mentrup, Thomas Huebsch, Jorge Duitama, and Margret R. Hoehe

Methods in Molecular Biology, 2017; 1551 (*Haplotyping*): 223-269.

2016.

Draft genome sequence of *Alternaria alternata* ATCC 34957.

Hai D.T. Nguyen, Christopher T. Lewis, C. André Lévesque, and Tom Gräfenhan.

Genome Announcements, 14 January 2016; 4(1): e01554-15, 2 pp. (HS+)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4714121/>

The genome sequence of the outbreeding globe artichoke constructed *de novo* incorporating a phase-aware low-pass sequencing strategy of F1 progeny.

Davide Scaglione, Sebastian Reyes-Chin-Wo, Alberto Acquadro, Lutz Froenicke, Ezio Portis, Christopher Beitel, Matteo Tirone, Rosario Mauro, Antonino Lo Monaco, Giovanni Mauromicale, Primetta Faccioli, Luigi Cattivelli, Loren Rieseberg, Richard Michelmore, and Sergio Lanteri

Scientific Reports, 20 January 2016; 6: 19427, 16 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4726258/>

Non-invasive prenatal diagnosis of fetal genetic condition using cellular DNA & cell free DNA.

Inventors: Srinivasan, Anupama, Darya I. Chudova, and Richard P. Rava.

US Patent Application: 2016/0017412 A1, Publication Date: 21 January 2016.

<http://www.freepatentsonline.com/y2016/0017412.html>

Detecting fetal sub-chromosomal aneuploidies.

Inventors: Darya I. Chudova, and Diana Abdueva.

US Patent Application: 2016/0019338 A1, Publication Date: 21 January 2016;

<http://www.freepatentsonline.com/y2016/0019338.html>

Methods and systems for genomic analysis.

Inventors: Jason Harris, Mark R. Pratt, John West, Richard Chen, and Ming Li.

US Patent Application: 2016/0019341 A1, Publication Date: 21 January 2016;

<http://www.freepatentsonline.com/y2016/0019341.html>

Identification of a novel alkaline amylopullulanase from a gut metagenome of *Hermetia illucens*.

Young-Seok Lee, So-Hyeon Seo, Sang-Hong Yoon, Su-Yeon Kim, Bum-Soo Hahn, Joon-Soo Sim, Bon-Sung Koo, and Chang-Muk Lee.

International Journal of Biological Macromolecules, January 2016; 82: 514-521.

[Genome-wide survey of artificial mutations induced by ethyl methanesulfonate and gamma rays in tomato.](#)

Kenta Shirasawa, Hideki Hirakawa, Tsukasa Nunome, Satoshi Tabata, and Sachiko Isobe.

Plant Biotechnology Journal, January 2016; 14(1): 51-60.

<http://onlinelibrary.wiley.com/doi/10.1111/pbi.12348/full>

[Complete mitochondrial genome of *Camponotus atrox* \(Hymenoptera: Formicidae\): a new tRNA arrangement in Hymenoptera.](#)

Min Jee Kim, Eui Jeong Hong, and Iksoo Kim.

Genome, January 2016; 59(1): 59-74.

[Draft genome sequence of *Alternaria alternata* ATCC 34957.](#)

Hai DT Nguyen, Christopher T. Lewis, C. André Lévesque, and Tom Gräfenhan.

Genome Announcements, January-February 2016; 4(1): e01554-15, 2 pp. (HS+)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4714121/>

[Improvement of barley genome annotations by deciphering the Haruna Nijo genome.](#)

Kazuhiro Sato, Tsuyoshi Tanaka, Shuji Shigenobu, Yuka Motoi, Jianzhong Wu, and Takeshi Itoh.

DNA Research, 1 February 2016; 23(1): 21-28

<https://dnaresearch.oxfordjournals.org/content/23/1/21.full.pdf+html>

[Unique features of a global human ectoparasite identified through sequencing of the bed bug genome.](#)

Joshua B. Benoit, Zach N. Adelman, Klaus Reinhardt, Amanda Dolan, Monica Poelchau, Emily C. Jennings, Elise M. Szuter, Richard W. Hagan, Hemant Gujar, Jayendra Nath Shukla, Fang Zhu, M. Mohan, David R. Nelson, Andrew J Rosendale, Christian Derst, Valentina Resnik, Sebastian Wernig, Pamela Menegazzi, Christian Wegener, Nicolai Peschel, Jacob M. Hendershot, Wolfgang Blenau, Reinhard Predel, Paul R. Johnston, Panagiotis Ioannidis, Robert M. Waterhouse, Ralf Nauen, Corinna Schorn, Mark-Christoph Ott, Frank Maiwald, J. Spencer Johnston, Ameya D. Gondhalekar, Michael E. Scharf, Brittany F. Peterson, Kapil R Raje, Benjamin A. Hottel, David Armisén, Antonin Jean Johan Crumière, Peter Nagui Refki, Maria Emilia Santos, Essia Sghaier, Séverine Viala, Abderrahman Khila, Seung-Joon Ahn, Christopher Childers, Chien-Yueh Lee, Han Lin, Daniel S. T. Hughes, Elizabeth J. Duncan, Shwetha C. Murali, Jiaxin Qu, Shannon Dugan, Sandra L. Lee, Hsu Chao, Huyen Dinh, Yi Han, Harshavardhan Doddapaneni, Kim C. Worley, Donna M. Muzny, David Wheeler, Kristen A. Panfilio, Iris M. Vargas Jentzsch, Edward L. Vargo, Warren Booth, Markus Friedrich, Matthew T. Weirauch, Michelle A. E. Anderson, Jeffery W. Jones, Omprakash Mittapalli, Chaoyang Zhao, Jing-Jiang Zhou, Jay D. Evans, Geoffrey M. Attardo, Hugh M. Robertson, Evgeny M. Zdobnov, Jose M. C. Ribeiro, Richard A. Gibbs, John H. Werren, Subba R. Palli, Coby Schal & Stephen Richards

Nature Communications, 2 February 2016; 7: 10165, 10 pp.

<http://www.nature.com/ncomms/2016/160202/ncomms10165/full/ncomms10165.html>

[Methods for obtaining a sequence.](#)

Inventors: Dmitry Pushkarev, Stephen R. Quake, Ayelet Voskoboynik, and Michael Kertesz.

United States Patent: US 9249460 B2, Publication Date: 2 February 2016.

<https://www.google.com/patents/US9249460>

[Methods for generating Nucleic Acid molecule fragments having a customized size distribution.](#)

Inventors: Keith L. Ligon, Azra H. Ligon, and Justin Craig.

US Patent Application: 2016/0032359 A1, Publication Date: 4 February 2016.

<http://www.freepatentsonline.com/y2016/0032359.html>

[Methods for pathogen detection and enrichment from materials and compositions.](#)

Inventors: Matthew R. Henn, John Grant Aunins, David Arthur Berry, and David N. Cook.

US Patent Application: 2016/0040215 A1, Publication Date: 11 February 2016.

<http://www.freepatentsonline.com/y2016/0040215.html>

[Detecting and classifying copy number variation.](#)

Inventors: Richard P. Rava, and Brian K. Rhees.

United States Patent: US 9260745 B2, Publication Date: 16 February 2016.

<https://www.google.com/patents/US9260745>

[Methods of sequencing nucleic acids in mixtures and compositions related thereto.](#)

Inventors: Mark C. Emerick, and William S. Agnew.

US Patent Application: 2016/0046930 A1, Publication Date: 18 February 2016.

<http://www.freepatentsonline.com/y2016/0046930.html>

[Systems and methods for genetic analysis.](#)

Inventors: Alexander Frieden, Caleb J. Kennedy, and Xavier S. Haurie.

US Patent Application: 2016/0048608 A1, Publication Date: 18 February 2016.

<http://www.freepatentsonline.com/y2016/0048608.html>

[Novel genes and proteins of *Brachyspira hyodysenteriae* and uses thereof.](#)

Inventors: Matthew Bellgard, David J. Hampson, and Tom La.

US Patent Application: 2016/0052974 A1, Publication Date: 25 February 2016.

<http://www.freepatentsonline.com/y2016/0052974.html>

[Improvement of barley genome annotations by deciphering the Haruna Nijo genome.](#)

Kazuhiro Sato, Tsuyoshi Tanaka, Shuji Shigenobu, Yuka Motoi, Jianzhong Wu, and Takeshi Itoh.

DNA Research, February 2016; 23(1): 21-28.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4755524/>

[Variant-calling on data from amplicon-based sequencing methods.](#)

Inventors: Milos Popovic, and Goran Rakocevik.

US Patent Application: 2016/0070856 A1, Publication Date: 10 March 2016.

<http://www.freepatentsonline.com/y2016/0070856.html>

[Indica rice genome assembly, annotation and mining of blast disease resistance genes.](#)

H. B. Mahesh, Meghana Deepak Shirke, Siddarth Singh, Anantharamanan Rajamani, Shailaja

Hittalmani, Guo-Liang Wang, and Malali Gowda.

BMC Genomics, 16 March 2016; 17: 242, 12 pp.

<http://bmcgenomics.biomedcentral.com/articles/10.1186/s12864-016-2523-7>

[Genomic Insights into a New *Citrobacter koseri* Strain Revealed Gene Exchanges with the Virulence-Associated *Yersinia pestis* pPCP1 Plasmid.](#)

Fabrice Armougom, Idir Bitam, Olivier Croce, Vicky Merhej, Lina Barassi, Ti-Thien Nguyen, Bernard La Scola, and Didier Raoult.
Frontiers in Microbiology, 16 March 2016; 7: 340, 13 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4793686/>

Means and methods for producing anti-proteome antibodies and identifying conserved unique or differentially expressing molecules of organisms.

Inventor: Manohar John
US Patent Application: 2016/0077104 A1, Publication Date: 17 March 2016.
<http://www.freepatentsonline.com/y2016/0077104.html>

Variant database.

Inventors: Marcia M. Nizzari, Benjamin H. Breton, David L. Tefft, and Xavier S. Haurie.
United States Patent: US 9298804 B2, Publication Date: 29 March 2016.
<https://www.google.com/patents/US9298804>

Complete Sequence of a Novel IncR-F33: A–: B–Plasmid, pKP1034, Harboring *fosA3*, *blaKPC-2*, *blaCTX-M-65*, *blaSHV-12*, and *rmtB* from an Epidemic *Klebsiella pneumoniae* Sequence Type 11 Strain in China.

Dai-Rong Xiang, Jun-Jie Li, Zi-Ke Sheng, Hai-Ying Yu, Mei Deng, Sheng Bi, Fei-Shu Hu, Wei Chen, Xiao-Wei Xue, Zhi-Bo Zhou, Yohei Doi, Ji-Fang Sheng and Lan-Juan Li
Antimicrobial Agents and Chemotherapy, March 2016; 60(3): 1343-1348.

Phylomitogenomic analyses strongly support the sister relationship of the *Chaetognatha* and *Protostomia*.

Xin Shen, Song Sun, Fang Qing Zhao, Guang Tao Zhang, Mei Tian, Ling Ming Tsang, Jin Feng Wang, and Ka Hou Chu.
Zoologica Scripta, March 2016; 45(2): 187-199.
https://www.researchgate.net/profile/Xin_Shen2/publication/281671701_Phylomitogenomic_analyses_strongly_support_the_sister_relationship_of_the_Chaetognatha_and_Protostomia/links/561dc0ee08aef097132b27a3.pdf

Insulated Foamy Viral Vectors.

Diana L. Browning, Casey P. Collins, Jonah D. Hocum, David J. Leap, Dustin T. Rae, and Grant D. Trobridge.
Human Gene Therapy, March 2016; 27(3): 255-266.

Methylation profiling identified novel differentially methylated markers including *OPCML* and *FLRT2* in prostate cancer.

Yu Wu, Jerry Davison, Xiaoyu Qu, Colm Morrissey, Barry Storer, Lisha Brown, Robert Vessella, Peter Nelson, and Min Fang.
Epigenetics, 18 April 2016; 11(4): 247-258

Molecular identity tags and uses thereof in identifying intermolecular ligation products.

Inventor: Si Lok
US Patent Application: 20160108394 A1, Publication Date: 21 April 2016.
<http://www.freepatentsonline.com/y2016/0108394.html>

Pre-implantation genetic screening and aneuploidy detection.

Inventor: Gregory Porreca

US Patent Application: 2016/0108475 A1, Publication Date: 21 April 2016.

<http://www.freepatentsonline.com/y2016/0108475.html>

Detecting and classifying copy number variation.

Inventors: Richard P. Rava, and Anupama Srinivasan.

United States Patent: US 9323888 B2, Publication Date: 26 April 2016.

<https://www.google.com/patents/US9323888>

Comparative Analysis of the Complete Genome of Lactobacillus plantarum GB-LP2 and Potential Candidate Genes for Host Immune System Enhancement.

Woori Kwak, Kwondo Kim, Chul Lee, Chanho Lee, Jungsun Kang, Kyungjin Cho, Sook Hee Yoon, Dae-Kyung Kang, Heebal Kim, Jaeyoung Heo, Seoae Cho

Journal of Microbiology and Biotechnology, 28 April 2016; 26(4): 684-692.

<http://www.jmb.or.kr/journal/viewJournal.html?doi=10.4014/jmb.1510.10081>

Microvirga massiliensis sp. nov., the human commensal with the largest genome.

Caputo, Aurélie, Jean-Christophe Lagier, Saïd Azza, Catherine Robert, Donia Mouelhi, Pierre-Edouard Fournier, and Didier Raoult.

MicrobiologyOpen, April 2016; 5(2): 307-322.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4831475/>

Method of library preparation avoiding the formation of adaptor dimers.

Inventors: David James Earnshaw, Niall Anthony Gormley, Helen Rachel Bignell, and Melanie Anne Smith

United States Patent: US 9328378 B2, Publication Date: 3 May 2016.

<https://www.google.com/patents/US9328378>

Methods of sequencing with linked fragments.

Inventors: Milenko Despotovic, Joel Pel, and Andrea Marziali.

US Patent Application: 2016/0122814 A1, Publication Date: 5 May 2016.

<http://www.freepatentsonline.com/y2016/0122814.html>

Methods for Using Mosaicism in Nucleic Acids Sampled Distal to Their Origin.

Inventor: John West

US Patent Application: 2016/0122831 A1, Publication Date: 5 May 2016.

<http://www.freepatentsonline.com/y2016/0122831.html>

The genome of Haemoproteus tartakovskyi and its relationship to human malaria parasites.

Staffan Bensch, Björn Canbäck, Jeremy D. DeBarry, Tomas Johansson, Olof Hellgren, Jessica C. Kissinger, Vaidas Palinauskas, Elin Videvall, and Gediminas Valkiūnas.

Genome Biology and Evolution, 12 May 2016; 8(5): 1361-1373. (HS+)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4898798/>

Lucigen yellow (LucY), a yellow fluorescent protein.

Inventors: Michele E. Auldridge, Laura P. Franz, David Mead, Saurabh Sen, and Eric J. Steinmetz.

United States Patent: US 9354175 B2, Publication Date: 31 May 2016.

<https://www.google.com/patents/US9354175>

Development of a clinically relevant insulated foamy viral vector for hematopoietic stem cell gene therapy.

Diana Lynn Browning

PhD Theses, May 2016; Washington State University, 130 pp.

<http://search.proquest.com/openview/2baa868c586336e04428ad8efea13d6b/1?pq-origsite=gscholar&cbl=18750&diss=y>

Methods for assembling and reading nucleic acid sequences from mixed populations.

Inventors: James A. Stapleton, and Timothy Whitehead.

US Patent Application: 2016/0152972 A1, Publication Date: 2 June 2016.

<http://www.freepatentsonline.com/y2016/0152972.html>

Methods and systems for storing sequence read data.

Inventors: Caleb Kennedy, and Niru Chennagiri.

US Patent Application: 2016/20160154795 A1, Publication Date: 2 June 2016.

<http://www.freepatentsonline.com/y2016/0154795.html>

The channel catfish genome sequence provides insights into the evolution of scale formation in teleosts.

Zhanjiang Liu, Shikai Liu, Jun Yao, Lisui Bao, Jiaren Zhang, Yun Li, Chen Jiang, Luyang Sun, Ruijia Wang, Yu Zhang, Tao Zhou, Qifan Zeng, Qiang Fu, Sen Gao, Ning Li, Sergey Koren, Yanliang Jiang, Aleksey Zimin, Peng Xu, Adam M. Phillippy, Xin Geng, Lin Song, Fanyue Sun, Chao Li, Xiaozhu Wang, Ailu Chen, Yulin Jin, Zihao Yuan, Yujia Yang, Suxu Tan, Eric Peatman, Jianguo Lu, Zhenkui Qin, Rex Dunham, Zhaoxia Li, Tad Sonstegard, Jianbin Feng, Roy G. Danzmann, Steven Schroeder, Brian Scheffler, Mary V. Duke, Linda Ballard, Huseyin Kucuktas, Ludmilla Kaltenboeck, Haixia Liu, Jonathan Armbruster, Yangjie Xie, Mona L. Kirby, Yi Tian, Mary Elizabeth Flanagan, Weijie Mu & Geoffrey C. Waldbieser

Nature Communications, 2 June 2016; 7: 11757, 13 pp.

<http://www.nature.com/ncomms/2016/160602/ncomms11757/full/ncomms11757.html>

Method for controlled DNA fragmentation.

Inventors: Mindaugas Ukaniš, Arvydas Lubys, Romas Tamosevicius, and Ervinas Gaidamauskas.

US Patent Application: 2016/0177359 A1, Publication Date: 23 June 2016;

<https://www.google.com/patents/US20160177359>

Compositions for rna-chromatin interaction analysis and uses thereof.

Inventors: Yijun Ruan, Meizhen Zheng, and Junhong Oscar Luo.

US Patent Application: 2016/0177380 A1, Publication Date: 23 June 2016.

<https://www.google.com/patents/US20160177380>

Non-invasive prenatal diagnosis of fetal genetic condition using cellular DNA and cell free DNA

Inventors: AmirAli Hajhossein Talasaz, and Gordon M. Cann.

US Patent Application: 2016/0186253 A1, Publication Date: 30 June 2016;

<https://www.google.com/patents/US20160186253>

Heparosan-Producing Bacterium and Heparosan Manufacturing Method.

Inventors: Shunsuke Yamazaki, Tomoko Shimizu, Kenichi Mori, and Naoto Tonouchi.

US Patent Application: 2016/0201103 A1, Publication Date: 14 July 2016;

<https://www.google.com/patents/US20160201103>

Compositions and methods for nucleic acid sequencing.

Inventors: Kevin Travers, Geoff Otto, Stephen Turner, Cheryl Heiner, and Congcong Ma.
United States Patent: US 9404146 B2, Publication Date: 2 August 2016.
<https://www.google.com/patents/US9404146>

Detecting and classifying copy number variation.

Inventors: Anupama Srinivasan, and Richard P. Rava.
United States Patent: US 9411937 B2, Publication Date: 9 August 2016.
<https://www.google.com/patents/US9411937>

Analyzing copy number variation in the detection of cancer.

Inventors: Richard P. Rava, and Brian K. Rhees.
US Patent Application: 2016/0232290 A1, Publication Date: 11 August 2016.
<https://www.google.com/patents/US20160232290>

Methods for obtaining a single molecule consensus sequence.

Inventors: Kevin Travers, Geoff Otto, Stephen Turner, Cheryl Heiner, and Congcong Ma.
US Patent Application: 2016/0237485 A1, Publication Date: 18 August 2016.
<https://www.google.com/patents/US20160237485>

Ectomycorrhizal ecology is imprinted in the genome of the dominant symbiotic fungus *Cenococcum geophilum*.

Martina Peter, Annegret Kohler, Robin A. Ohm, Alan Kuo, Jennifer Krützmann, Emmanuelle Morin, Matthias Arend, Kerrie W. Barry, Manfred Binder, Cindy Choi, Alicia Clum, Alex Copeland, Nadine Grisel, Sajeet Haridas, Tabea Kipfer, Kurt LaButti, Erika Lindquist, Anna Lipzen, Renaud Maire, Barbara Meier, Sirma Mihaltcheva, Virginie Molinier, Claude Murat, Stefanie Poggeler, C. Alisha Quandt, Christoph Sperisen, Andrew Tritt, Emilie Tisserant, Pedro W. Crous, Bernard Henrissat, Uwe Nehls, Simon Egli, Joseph W. Spatafora, Igor V. Grigoriev, & Francis M. Mart
Nature Communications, 7 September 2016; 7: 12662, 15 pp.
<http://www.nature.com/articles/ncomms12662>

Draft genome of the wheat rust pathogen (*Puccinia triticina*) unravels genome-wide structural variations during evolution.

Kanti Kiran, Hukam C. Rawal, Himanshu Dubey, Rajdeep Jaswal, B. N. Devanna, Deepak Kumar Gupta, Subhash C. Bhardwaj, P Prasad, Dharam Pal, Parveen Chhuneja, P Balasubramanian, J Kumar, M Swami, Amolkumar U Solanke, Kishor Gaikwad, Nagendra K Singh, Tilak Raj Sharma
Genome Biology and Evolution, 11 September 2016; evw197, 58 pp.
<http://gbe.oxfordjournals.org/content/early/2016/08/12/gbe.ev197.full.pdf+html>

Method of sequencing.

Inventor: Jarle Kotsbak
United States Patent: US 9447465 B2, Publication Date: 20 September 2016.
<https://www.google.com/patents/US9447465>

Draft genome of the wheat rust pathogen (*Puccinia triticina*) unravels genome-wide structural variations during evolution.

Kanti Kiran, Hukam C. Rawal, Himanshu Dubey, Rajdeep Jaswal, B. N. Devanna, Deepak Kumar Gupta, Subhash C. Bhardwaj, P. Prasad, Dharam Pal, Parveen Chhuneja, P. Balasubramanian, J. Kumar, M. Swami, Amolkumar U. Solanke, Kishor Gaikwad, Nagendra K. Singh, Tilak Raj Sharma

Genome Biology and Evolution, September 2016; 8(9): 2702-2721.

<http://gbe.oxfordjournals.org/content/8/9/2702.full>

[Diaphanous gene mutation affects spiral cleavage and chirality in snails.](#)

Reiko Kuroda, Kohei Fujikura, Masanori Abe, Yuji Hosoiri, Shuichi Asakawa, Miho Shimizu, Shin Umeda, Futaba Ichikawa, and Hiromi Takahashi.

Scientific Reports 6 October 2016; 6: 34809, 15 pp.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5052593/pdf/srep34809.pdf>

[Genes of an otitis media isolate of nontypeable hemophilus influenzae.](#)

Inventors: Lauren O. Bakaletz, Robert S. Munson Jr, and David W. Dyer.

US Patent Application: 2016/0289278 A1, Publication Date: 6 October 2016.

<https://www.google.com/patents/US20160289278>

[A novel bacteriophage targeting *Cronobacter sakazakii* is a potential biocontrol agent in foods.](#)

Ju-Hoon Lee, Jaewoo Bai, Hakdong Shin, Yeran Kim, Bookyung Park, Sunggi Heu, Sangryeol Ryu.

Applied and environmental microbiology, 23 October 2016; 82(1): 192-201.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4702651/>

[Absolute quantification of genetically engineered traits with droplet digital PCR: Effect of DNA treatments and spiking with non-target DNA.](#)

Tigst Demeke, Michelle Holigroski, Monika Eng, and Juan Xing.

Food Control, October 2016; 68: 105-111. (HS+)

[Error suppression in sequenced dna fragments using redundant reads with unique molecular indices \(umis\).](#)

Inventors: Sante Gnerre, Byoungsok Jung, Emrah Kostem, Alex Aravanis, Alex So, Xuyu Cai, and Zhihong Zhang.

US Patent Application: 2016/0319345 A1, Publication Date: 3 November 2016.

<https://www.google.com/patents/US20160319345>

[Computer systems, media, and computer methods for nucleic acid sequencing.](#)

Inventors: Kevin Travers, Geoff Otto, Stephen Turner, Cheryl Heiner, and Congcong Ma.

US Patent Application: 2016/0321397 A1, Publication Date: 3 November 2016.

<https://www.google.com/patents/US20160321397>

[Complete genome of *Vibrio parahaemolyticus* FORC014 isolated from the toothfish.](#)

Sojin Ahn, Han Young Chung, Sooyeon Lim, Kwondo Kim, Suyeon Kim, Eun Jung Na, Kelsey Caetano-Anolles, Ju-Hoon Lee, Sangryeol Ryu, Sang Ho Choi and Heebal Kim

Gut Pathogens, 17 November 2016; 8(1): 59, 6 pp.

<https://gutpathogens.biomedcentral.com/articles/10.1186/s13099-016-0134-0>

[Structure of the germline genome of *Tetrahymena thermophila* and relationship to the massively rearranged somatic genome.](#)

Eileen P. Hamilton, Aurélie Kapusta, Piroška E. Huvos, Shelby L. Bidwell, Nikhat Zafar, Haibao Tang, Michalis Hadjithomas, Vivek Krishnakumar, Jonathan H Badger, Elisabet V Caler, Carsten Russ, Qiandong Zeng, Lin Fan, Joshua Z Levin, Terrance Shea, Sarah K Young, Ryan Hegarty, Riza Daza, Sharvari Gujja, Jennifer R Wortman, Bruce W Birren, Chad Nusbaum, Jainy Thomas, Clayton M Carey, Ellen J Pritham, Cédric Feschotte, Tomoko Noto, Kazufumi Mochizuki, Romeo Papazyán,

Sean D Taverna, Paul H Dear, Donna M Cassidy-Hanley, Jie Xiong, Wei Miao, Eduardo Orias, and Robert S Coyne
eLife, 28 November 2016; 5: e19090, 15 pp.
<https://elifesciences.org/content/5/e19090>

[Panmixia across the range of the assortatively mating Lesser Snow Goose.](#)

Brent Horowitz

MS Theses, November 2016; University of Denver, 41 pp.

<http://digitalcommons.du.edu/cgi/viewcontent.cgi?article=2211&context=etd>

[Systems for nucleic acid sequencing.](#)

Inventors: Kevin Travers, Geoff Otto, Stephen Turner, Cheryl Heiner, and Congcong Ma.

US Patent Application: 2016/0348167 A1, Publication Date: 1 December 2016.

<http://www.freepatentsonline.com/y2016/0348167.html>

[Amplification and analysis of whole genome and whole transcriptome libraries generated by a DNA polymerization process.](#)

Inventors: Emmanuel Kamberov, Tong Sun, Eric Bruening, Jonathon H. Pinter, Irina Sleptsova, Takao Kurihara, and Vladimir L. Makarov.

US Patent Application: 2016/0355879, Publication Date: 8 December 2016.

<http://www.freepatentsonline.com/y2016/0355879.html>

[Amplification and analysis of whole genome and whole transcriptome libraries generated by a dna polymerization process.](#)

Inventors: Emmanuel Kamberov, Tong Sun, Eric Bruening, Jonathon H. Pinter, Irina Sleptsova, Takao Kurihara, and Vladimir L. Makarov.

US Patent Application: 2016/0355879 A1, Publication Date: 8 December 2016

<https://www.google.com/patents/US20160355879>

[Method of preparing libraries of template polynucleotides.](#)

Inventors: Niall Anthony Gormley, Geoffrey P. Smith, David Bentley, Roberto Rigatti, Shujun Luo

US Patent Application: 2016/0355880 A1, Publication Date: 8 December 2016.

<http://www.freepatentsonline.com/y2016/0355880.html>

[The biosynthetic pathway of 2-azahypoxanthine in fairy-ring forming fungus.](#)

Tomohiro Suzuki, Naoki Yamamoto, Jae-Hoon Choi, Tomoyuki Takano, Yohei Sasaki, Yurika Terashima, Akinobu Ito, Hideo Dohra, Hirofumi Hirai, Yukino Nakamura, Kentaro Yano & Hirokazu Kawagishi

Scientific Reports, 19 December 2016; 6: 39087, 10 pp.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5171910/pdf/srep39087.pdf>

[The complete genome sequence of hyperthermophile *Dictyoglomus turgidum* DSM 6724™ reveals a specialized carbohydrate fermentor.](#)

Phillip J. Brumm, Krishne Gowda, Frank T. Robb, and David A. Mead.

Frontiers in Microbiology, 20 December 2016; 7: 1979, 20 pp.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5167688/pdf/fmicb-07-01979.pdf>

[Sequencing using concatemers of copies of sense and antisense strands.](#)

Inventors: Kevin Travers, Geoff Otto, Stephen Turner, Cheryl Heiner, and Congcong Ma.

US Patent Application: 2016/0376647 A1, Publication Date: 29 December 2016.

<https://www.google.com/patents/US20160376647>

[Genetic Enzyme Screening System: A Method for High-Throughput Functional Screening of Novel Enzymes from Metagenomic Libraries.](#)

Haseong Kim, Kil Koang Kwon, Eugene Rha, and Seung-Goo Lee.

In: *Hydrocarbon and Lipid Microbiology Protocols*, 2016; Terry J. McGenity, Kenneth N. Timmis, Balbina Nogales Fernández Eds, 10 pp.

[Role of DNA methylation at the placental RTL1 gene locus in type 1 diabetes.](#)

Marie-Pierre Belot, Kambiz Nadéri, Clémence Mille, Pierre-Yves Boëlle, Alexandra Benachi, Pierre Bougnères, and Delphine Fradin.

Pediatric Diabetes, 13 May 2016; ahead of the print.

[Chloroplast genome sequence of the moss *Tortula ruralis*: gene content, polymorphism, and structural arrangements relative to other green plant chloroplast genomes.](#)

Melvin J. Oliver, Andrew G. Murdock, and Brent D. Mishler, Jennifer V. Kuehl, Jeffrey L. Boore, Dina F. Mandoli, Karin DE Everett, Paul G. Wolf, Aaron M. Duffy and Kenneth G. Karol.

In: *Phytopathology in Plants*, 2016; Philip Stewart and Sabine Globig eds, CRC Press, pp. 278-292.

[Improving *Bacillus altitudinis* B-388 Genome Scaffolding Using Mate-Pair Next-Generation Sequencing.](#)

Vera Ulyanova, Raihan Shah Mahmud, Sergey Malanin, Valentina Vershinina, and Olga Ilinskaya. *BioNanoScience* (2016): 1-3 (online publication 6 October 2016)

[Whole genome sequencing of Guzerá cattle reveals genetic variants in candidate genes for production, disease resistance, and heat tolerance.](#)

Izinara C. Rosse, Juliana G. Assis, Francislon S. Oliveira, Laura R. Leite, Flávio Araujo, Adhemar Zerlotini, Angela Volpini, Anderson J. Daminini, Beatriz C. Lopes, Wagner A. Arbex, Marco A. Machado, Maria G. C. D. Peixoto, Rui S. Verneque, Marta F. Martins, Roney S. Coimbra, Marcos V. G. B. Silva, Guilherme Oliveira, Maria Raquel S. Carvalho
Mammalian Genome, 1-15. ahead of print publication 16 November 2016.

[Identification of enzymes responsible for extracellular alginate depolymerization and alginate metabolism in *Vibrio alginovor*.](#)

Hidetaka Doi, Yuriko Tokura, Yukiko Mori, Kenichi Mori, Yoko Asakura, Yoshihiro Usuda, Hiroo Fukuda, and Akito Chinen.

Applied Microbiology and Biotechnology, 3 December 2016; (): 1-12, ahead of print.

<http://link.springer.com/article/10.1007/s00253-016-8021-7>

[Draft Genome Sequence of *Mentha longifolia* \(L.\) and Development of Resources for Mint Cultivar Improvement.](#)

Kelly J. Vining, Sean R. Johnson, Amirhossein Ahkami, Iris Lange, Amber N. Parrish, Susan C. Trapp, Rodney B. Croteau, Shannon CK Straub, Iovanna Pandelova, and B. Markus Lange.
Molecular Plant, 2016; ahead of print.

[Demographic and population separation history inference based on whole genome sequences.](#)

Shiya Song

PhD Theses, 2016; The University of Michigan, 196 pp.

<https://deepblue.lib.umich.edu/handle/2027.42/133341>

[Iterative Fragmentation Improves the Detection of ChIP-seq Peaks for Inactive Histone Marks.](#)

Miklos Laczik, Jan Hendrickx, Anne-Clemence Veillard, Mustafa Tammoh, Sarah Marzi, and Dominique Poncelet.

Bioinformatics and Biology Insights, 10 (2016): 209-224.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5081244/pdf/bbi-10-2016-209.pdf>

[Genome annotation and genotype-phenotype association in two non-model parasites.](#)

Daniel D. Ence

PhD Theses, 2016; University of Utah, 115 pp.

<http://gradworks.umi.com/10/24/10248265.html>

2015.

[Method for prevention and treatment of *Escherichia coli* type K99 infections.](#)

Inventors: Seongjun Yoon, Sooyoun Paik, Hyoungrok Jun, Jeesoo Son, Sanghyeon Kang

US Patent Application: 2015/0004141 A1, Publication Date: 01 January 2015;

<http://www.freepatentsonline.com/y2015/0004141.html>

[Use of Viral Metagenomes from Yellowstone Hot Springs to Study Phylogenetic Relationships and Evolution.](#)

Thomas W. Schoenfeld, and David Mead.

In: *Encyclopedia of Metagenomics: Genes, Genomes and Metagenomes: Basics, Methods, Databases and Tools*, 4 January 2015; K.E. Nelson ed., Springer Science, New York, pp. 681-700.

[Clostridium thermocellum Cel5L-Cloning and Characterization of a New, Thermostable GH5 Cellulase.](#)

Phillip J. Brumm, Spencer Hermanson, Krishne Gowda, Dan Xie, and David A. Mead.

International Journal of Biochemistry Research & Review, 5 January 2015; 6(2): 62-74.

<http://search.proquest.com/openview/4c8788202d022123878f413da377a1b7/1?pq-origsite=gscholar>

[Method for retaining even coverage of short insert libraries.](#)

Inventors: Niall Anthony Gormley, and Melanie Anne Smith.

United States Patent: US 8932994 B2, Publication Date: 13 January 2015;

<https://www.google.com/patents/US8932994>

[Comparative Genomic Analysis of Staphylococcus aureus FORC 001 and S. aureus MRSA252 reveals the Characteristics of Antibiotic Resistance and Virulence Factors for Human Infection.](#)

Sooyeon Lim, Dong-Hoon Lee, Woori Kwak, Hakdong Shin, Hye-Jin Ku, Jong-eun Lee, Gun Eui Lee, Heebal Kim, Sang-Ho Choi, Sangryeol Ryu, Ju-Hoon Lee

J. Microbiol. Biotechnology, 25 January 2015; 25(1): 98-108.

<http://www.jmb.or.kr/journal/viewJournal.html?doi=10.4014/jmb.1410.10005>

[A novel psychrophilic alkaline phosphatase from the metagenome of tidal flat sediments.](#)

Dae-Hee Lee, Su-Lim Choi, Eugene Rha, Soo J. Kim, Soo-Jin Yeom, Jae-Hee Moon Seung-Goo Lee.
BMC Biotechnology, 31 January 2015; 15(1): 1, 13 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4335783/>

XA23 is an executor R protein and confers broad-spectrum disease resistance in rice

Chunlian Wang , Xiaoping Zhang , Yinglun Fan , Ying Gao, Qinlong Zhu, Chongke Zheng, Tengfei Qin, Yanqiang Li, Jinying Che, Mingwei Zhang, Bing Yang, Yaoguang Liu and Kaijun Zhao
Molecular Plant, 2 February 2015; 8(2): 290-302

[http://www.cell.com/molecular-plant/fulltext/S1674-2052\(14\)00030-6](http://www.cell.com/molecular-plant/fulltext/S1674-2052(14)00030-6)

Method for sequencing a polynucleotide template.

Inventors: Eric Hans Vermaas, Graham John Worsley, Jonathan Mark Boutell, Colin Lloyd Barnes, Roberto Rigatti, Niall Anthony Gormley, Geoffrey Paul Smith, Vincent Peter Smith, Tobias William Barr Ost, and David Bentley.

United States Patent: 8945835 B2, Publication Date: 3 February 2015;

<https://www.google.com/patents/US8945835>

Analysis of the *Campylobacter jejuni* Genome by SMRT DNA Sequencing Identifies Restriction-Modification Motifs.

Jason L. O'Loughlin, Tyson P. Eucker, Juan D. Chavez, Derrick R. Samuelson, Jason Neal-McKinney, Christopher R. Gourley, James E. Bruce, and Michael E. Konkel.

PLoS One, 19 February 2015; 10(2): e0118533, 18 pp. (HS+)

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0118533>

The genome of *Leishmania panamensis*: insights into genomics of the *L.(Viannia)* subgenus.

Alejandro Llanes, Carlos Mario Restrepo, Gina Del Vecchio, Franklin José Anguizola, and Ricardo Leonart.

Scientific Reports, 24 February 2015; 5: 8550, 10 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4338418/>

Method and system for determining copy number variation.

Inventors: Xuchao Li, Shengpei Chen, Fang Chen, Weiwei Xie, Jian Wang, Jun Wang, Huanming Yang, and Xiuqing Zhang.

U.S. Patent Application: 2015/0056619 A1, Publication Date: 26 February 2015;

<https://www.google.com/patents/US20150056619>

Methods and systems for genomic analysis.

Inventors: Jason Harris, Mark R. Pratt, John West, Richard Chen, and Ming Li.

U.S. Patent Application: 2015/0066824 A1, Publication Date: 5 March 2015;

<https://www.google.com/patents/US20150066824>

Methods and compositions for nucleic acid sample preparation.

Inventors: Igor Vilfan, and Stephen Turner.

U.S. Patent Application: 2015/0072869 A1, Publication Date: 12 March 2015;

<https://www.google.com/patents/US20150072869>

DNA methylation and expression of KCNQ3 in bipolar disorder.

Zachary Kaminsky, Ilenna Jones, Ranjana Verma, Lena Saleh, Hersh Trivedi, Jerry Guintivano, Ryan Akman, Peter Zandi, Richard S. Lee, and James B. Potash.

Bipolar Disorders, 17 March 2015; 17(2): 150-159.

[Characterization of KfrA proteins encoded by a plasmid of *Paenibacillus popilliae* ATCC 14706^T](#)

Kazuhiro Iiyama, Hiroaki Mon, Kazuki Mori, Takumi Mitsudome, Jae Man Lee, Takahiro Kusakabe, Kousuke Tashiro, Shin-ichiro Asano, and Chisa Yasunaga-Aoki.

Meta Gene, 20 March 2015; 4: 29-44.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4372654/>

[End modification to prevent over-representation of fragments.](#)

Inventors: Roberto Rigatti, Niall Anthony Gormley, and Helen Rachel Bignell.

U.S. Patent Application: 2015/0197789 A1, Publication Date: 24 March 2015.

<https://www.google.com/patents/US20150197789>

[Genes and proteins of *Brachyspira hyodysenteriae* and uses thereof.](#)

Inventors: Matthew Bellgard, David John Hampson, and Tom La.

United States Patent: 8992938 B2, Publication Date: 31 March 2015.

<https://www.google.com/patents/US8992938>

[The Release 6 reference sequence of the *Drosophila melanogaster* genome.](#)

Roger A. Hoskins, Joseph W. Carlson, Kenneth H. Wan, Soo Park, Ivonne Mendez, Samuel E. Galle, Benjamin W. Booth, Barret D. Pfeiffer, Reed A. George, Robert Svirskas, Martin Krzywinski, Jacqueline Schein, Maria Carmela Accardo, Elisabetta Damia, Giovanni Messina, Mariana Mendez-Lago, Beatriz de Pablos, Olga V. Demakova, Evgeniya N. Andreyeva, Lidiya V. Boldyreva, Marco Marra, A. Bernardo Carvalho, Patrizio Dimitri, Alfredo Villasante, Igor F. Zhimulev, Gerald M. Rubin, Gary H. Karpen, and Susan E. Celniker

Genome Research, March 2015; 25(3): 445-458

<http://genome.cshlp.org/content/25/3/445.full.pdf+html>

[New insights into the evolutionary rate of hepatitis B virus at different biological scales.](#)

You-Yu Lin, Chieh Liu, Wei-Hung Chien, Li-Ling Wu, Yong Tao, Dafei Wu, Xuemei Lu, Chia-Hung Hsieh, Pei-Jer Chen, Hurng-Yi Wang, Jia-Horng Kao, Ding-Shinn Chen

Journal of Virology, 1 April 2015; 89(7): 3512-3522.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4403390/>

[A genome draft of the legless anguid lizard, *Ophisaurus gracilis*.](#)

Bo Song, Shifeng Cheng, Yanbo Sun, Xiao Zhong, Jieqiong Jin, Rui Guan, Robert W. Murphy, Jing Che, Yaping Zhang, and Xin Liu.

GigaScience, 9 April 2015; 4: 17, 3 pp

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4391233/>

[Sequence data for *Clostridium autoethanogenum* using three generations of sequencing technologies.](#)

Sagar M. Utturkar, Dawn M. Klingeman, José M. Bruno-Barcena, Mari S. Chinn, Amy M. Grunden, Michael Köpke, and Steven D. Brown.

Scientific Data, 14 April 2015; 2:150014, 9 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4409012/>

[Whole genome sequencing of a human fetus.](#)

Inventors: Jay Ashok Shendure, Jacob Otto Kitzman, and Matthew Snyder.

U.S. Patent Application: 2015/0105267 A1, Publication Date: 16 April 2015;

<https://www.google.com/patents/US20150105267>

Vaccine strains of *Brachyspira hyodysenteriae*.

Inventors: David J. Hampson, Tom La, Matthew I. Bellgard, and Nyree D. Phillips.
United States Patent: 9011878 B2, Publication Date: 21 April 2015;
<https://www.google.com/patents/US9011878>

End modification to prevent over-representation of fragments.

Inventors: Roberto Rigatti, Niall Anthony Gormley, and Helen Rachel Bignell.
United States Patent: 9012184 B2, Publication Date: 21 April 2015;
<https://www.google.com/patents/US9012184>

Methods for determining carrier status.

Inventors: Eric D. Boyden, Gregory Porreca, and Mark Umbarger.
U.S. Patent Application: 2015/0111203 A1, Publication Date: 23 April 2015;
<https://www.google.com/patents/US20150111203>

Methods for assessing a genomic region of a subject.

Inventors: Mark Umbarger, and Gregory Porreca.
U.S. Patent Application: 2015/0111208 A1, Publication Date: 23 April 2015;
<https://www.google.com/patents/US20150111208>

Methods for determining carrier status.

Inventors: Eric D. Boyden, Gregory Porreca, and Mark Umbarger.
U.S. Patent Application: 2015/0111757 A1, Publication Date: 23 April 2015;
<https://www.google.com/patents/US20150111757>

LucY: A Versatile New Fluorescent Reporter Protein

Michele E. Auldridge, Hongnan Cao, Saurabh Sen, Laura P. Franz, Craig A. Bingman, Ragothaman M. Yennamalli, George N. Phillips Jr, David Mead, and Eric J. Steinmetz.
PLoS One, 23 April 2015; 10(4): e0124272, 21 pp.
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0124272>

Genomic and proteomic features of mycobacteriophage SWU1 isolated from China soil.

Xiangyu Fan, Jianlong Yan, Longxiang Xie, Lanying Zeng, Ryland F. Young III, Jianping Xie
Gene, 25 April 2015; 561(1): 45-53.

Method for retaining even coverage of short insert libraries.

Inventors: Niall Anthony Gormley, and Melanie Anne Smith.
U.S. Patent Application: 2015/0119292 A1, Publication Date: 30 April 2015;
<https://www.google.com/patents/US20150119292>

Long insert-based whole genome sequencing.

Inventors: Winnie Liang, John Carpten, and David Craig.
U.S. Patent Application: 2015/0126379 A1, Publication Date: 7 May 2015;
<https://www.google.com/patents/US20150126379>

Linear vectors, host cells and cloning methods.

Inventors: Ronald Godiska, David A. Mead, and Nikolai V. Ravin.
United States Patent: 9029134 B2, Publication Date: 12 May 2015;
<https://www.google.com/patents/US9029134>

Methods and Systems for Storing Sequence Read Data.

Inventors: Caleb J. Kennedy, and Niru Chennagiri.

US Patent Application: 2015/0149510 A1, Publication Date: 28 May 2015.

<http://www.freepatentsonline.com/y2015/0149510.html>

Sequencing of allotetraploid cotton (*Gossypium hirsutum* L. acc. TM-1) provides a resource for fiber improvement.

Tianzhen Zhang, Yan Hu, Wenkai Jiang, Lei Fang, Xueying Guan, Jiedan Chen, Jinbo Zhang, Christopher A Saski, Brian E Scheffler, David M Stelly, Amanda M Hulse-Kemp, Qun Wan, Bingliang Liu, Chunxiao Liu, Sen Wang, Mengqiao Pan, Yangkun Wang, Dawei Wang, Wenxue Ye, Lijing Chang, Wenpan Zhang, Qingxin Song, Ryan C Kirkbride, Xiaoya Chen, Elizabeth Dennis, Danny J Llewellyn, Daniel G Peterson, Peggy Thaxton, Don C Jones, Qiong Wang, Xiaoyang Xu, Hua Zhang, Huaitong Wu, Lei Zhou, Gaofu Mei, Shuqi Chen, Yue Tian, Dan Xiang, Xinghe Li, Jian Ding, Qiyang Zuo, Linna Tao, Yunchao Liu, Ji Li, Yu Lin, Yuanyuan Hui, Zhisheng Cao, Caiping Cai, Xiefei Zhu, Zhi Jiang, Baoliang Zhou, Wangzhen Guo, Ruiqiang Li & Z Jeffrey Chen

Nature Biotechnology, May 2015; 33(5): 531-537.

<http://www.nature.com/nbt/journal/v33/n5/full/nbt.3207.html>

***Clostridium thermocellum* Cel5L–Cloning and Characterization of a New, Thermostable GH5 Cellulase.**

Phillip J. Brumm, Spencer Hermanson, Krishne Gowda, Dan Xie, and David A. Mead.

International Journal of Biochemistry Research & Review, May 2015, 6(2): 62-74.

http://www.sdiarticle2.org/journal/IJBCRR_3/prh/2015/02/02/Revised-manuscript_version2_15199.pdf

The Genome of *Dendrobium officinale* illuminates the Biology of the important Traditional Chinese Orchid Herb.

Liang Yan, Xiao Wang, Hui Liu, Yang Tian, Jinmin Lian, Ruijuan Yang, Shumei Hao, Xuanjun Wang, Shengchao Yang, Qiye Li, Shuai Qi, Ling Kui, Moses Okpekum, Xiao Ma, Jiajin Zhang, Zhaoli Ding, Guojie Zhang, Wen Wang, Yang Dong, Jun Sheng

Molecular Plant, 1 June 2015; 8(6): 922–934

Complete genome sequence of *Salmonella enterica* subspecies *arizonae* str. RKS2983.

Chun-Xiao Wang, Song-Ling Zhu, Xiao-Yu Wang, Ye Feng, Bailiang Li, Yong-Guo Li, Randal N. Johnston, Gui-Rong Liu, Jin Zhou, and Shu-Lin Liu.

Standards in Genomic Sciences, 3 June 2015; 10(1): 30, 7 pp.

<http://www.biomedcentral.com/content/pdf/s40793-015-0015-z.pdf>

Interaction and signalling between a cosmopolitan phytoplankton and associated bacteria.

S. A. Amin, L. R. Hmelo, H. M. van Tol, B. P. Durham, L. T. Carlson, K. R. Heal, R. L. Morales, C. T. Berthiaume, M. S. Parker, B. Djunaedi, A. E. Ingalls, M. R. Parsek, M. A. Moran, E. V. Armbrust

Nature, 4 June 2015; 522(7554): 98-101.

https://www.researchgate.net/profile/Shady_Amin/publication/277411076_Interaction_and_signalling_between_a_cosmopolitan_phytoplankton_and_associated_bacteria/links/562f2a0308ae22b170363c3e.pdf

Biopolymer sequencing by hybridization of probes to form ternary complexes and variable range alignment.

Inventors: John Oliver, Barrett Bready, Peter Goldstein, and Franco Preparata.

United States Patent: US 9051609 B2, Publication Date: 9 June 2015;
<https://www.google.com/patents/US9051609>

[Genome sequencing by random priming methods for viral identification.](#)

Rosseel Toon

PhD Theses, 14 June 2015, Faculty of Veterinary Medicine, Ghent University, Belgium, 288 pp.
https://www.researchgate.net/profile/Hans_Nauwynck/publication/278244335_Genome_sequencing_by_random_priming_methods_for_viral_identification/links/557df58708ae26eada8db982.pdf

[Intermittent detection during analytical reactions.](#)

Inventors: Stephen Turner, Jon Sorenson, Kenneth Mark Maxham, and John Eid.

United States Patent: US 9057102 B2, Publication Date: 16 June 2015;
<https://www.google.com/patents/US9057102>

[Differential gene retention as an evolutionary mechanism to generate biodiversity and adaptation in yeasts.](#)

Guillaume Morel, Lieven Sterck, Dominique Swennen, Marina Marcet-Houben, Djamila Onesime, Anthony Levasseur, Noémie Jacques, Sandrine Mallet, Arnaud Couloux, Karine Labadie, Joëlle Amselem, Jean-Marie Beckerich, Bernard Henrissat, Yves Van de Peer, Patrick Wincker, Jean-Luc Souciet, Toni Gabaldón, Colin R. Tinsley & Serge Casaregola
Scientific Reports, 25 June 2015; 5: 11571, 17 pp.
<http://www.nature.com/srep/2015/150625/srep11571/pdf/srep11571.pdf>

[Lucilia cuprina genome unlocks parasitic fly biology to underpin future interventions.](#)

Clare A. Anstead, Pasi K. Korhonen, Neil D. Young, Ross S. Hall, Aaron R. Jex, Shwetha C. Murali, Daniel ST Hughes, Siu F. Lee, Trent Perry, Andreas J. Stroehlein, Brendan R.E. Ansell, Bert Breugelmans, Andreas Hofmann, Jiaxin Qu, Shannon Dugan, Sandra L. Lee, Hsu Chao, Huyen Dinh, Yi Han, Harsha V. Doddapaneni, Kim C. Worley, Donna M. Muzny, Panagiotis Ioannidis, Robert M. Waterhouse, Evgeny M. Zdobnov, Peter J. James, Neil H. Bagnall, Andrew C. Kotze, Richard A. Gibbs, Stephen Richards, Philip Batterham & Robin B. Gasser
Nature Communications, 25 June 2015; 6: 7344, 11 pp.
<http://www.nature.com/ncomms/2015/150626/ncomms8344/pdf/ncomms8344.pdf>

[Characterization of KfrA proteins encoded by a plasmid of Paenibacillus popilliae ATCC 14706^T](#)

Kazuhiro Iiyama, Hiroaki Mon, Kazuki Mori, Takumi Mitsudome, Jae Man Lee, Takahiro Kusakabe, Kousuke Tashiro, Shin-ichiro Asano, and Chisa Yasunaga-Aoki.
Meta Gene, June 2015; 4: 29-44.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4372654/>

[Phylogeographical analysis of the dominant multidrug-resistant H58 clade of Salmonella typhi identifies inter-and intracontinental transmission events.](#)

Vanessa K. Wong, Stephen Baker, Derek J. Pickard, Julian Parkhill, Andrew J. Page, Nicholas A. Feasey, Robert A. Kingsley, Nicholas R Thomson, Jacqueline A Keane, François-Xavier Weill, David J Edwards, Jane Hawkey, Simon R Harris, Alison E Mather, Amy K Cain, James Hadfield, Peter J Hart, Nga Tran Vu Thieu, Elizabeth J Klemm, Dafni A Glinos, Robert F Breiman, Conall H Watson, Samuel Kariuki, Melita A Gordon, Robert S Heyderman, Chinyere Okoro, Jan Jacobs, Octavie Lunguya, W John Edmunds, Chisomo Msefula, Jose A Chabalgoity, Mike Kama, Kylie Jenkins, Shanta Dutta, Florian Marks, Josefina Campos, Corinne Thompson, Stephen Obaro, Calman A MacLennan, Christiane Dolecek, Karen H Keddy, Anthony M Smith, Christopher M Parry,

Abhilasha Karkey, E Kim Mulholland, James I Campbell, Sabina Dongol, Buddha Basnyat, Muriel Dufour, Don Bandaranayake, Take Toleafoa Naseri, Shalini Pravin Singh, Mochammad Hatta, Paul Newton, Robert S Onsare, Lupeoletalalei Isaia, David Dance, Viengmon Davong, Guy Thwaites, Lalith Wijedoru, John A Crump, Elizabeth De Pinna, Satheesh Nair, Eric J Nilles, Duy Pham Thanh, Paul Turner, Sona Soeng, Mary Valcanis, Joan Powling, Karolina Dimovski, Geoff Hogg, Jeremy Farrar, Kathryn E Holt & Gordon Dougan

Nature Genetics, June 2015, 47(6): 632-639. (HS+)

<http://www.nature.com/ng/journal/v47/n6/abs/ng.3281.html>

The genome of *Dendrobium officinale* illuminates the biology of the important traditional Chinese orchid herb.

Liang Yan, Xiao Wang, Hui Liu, Yang Tian, Jinmin Lian, Ruijuan Yang, Shumei Hao, Xuanjun Wang, Shengchao Yang, Qiye Li, Shuai Qi, Ling Kui, Moses Okpekum, Xiao Ma, Jiajin Zhang, Zhaoli Ding, Guojie Zhang, Wen Wang, Yang Dong and Jun Sheng

Molecular Plant, June 2015; 8(6): 922-934.

[http://www.cell.com/molecular-plant/pdf/S1674-2052\(14\)00047-1.pdf](http://www.cell.com/molecular-plant/pdf/S1674-2052(14)00047-1.pdf)

Genome sequencing by random priming methods for viral identification.

Rosseel Toon

PhD Theses, June 2015; Ghent University, Belgium, 293 pp.

http://www.researchgate.net/profile/Hans_Nauwynck/publication/278244335_Genome_sequencing_by_random_priming_methods_for_viral_identification/links/557df58708ae26eada8db982.pdf

End modification to prevent over-representation of fragments.

Inventors: Roberto Rigatti, Niall Anthony Gormley, and Helen Rachel Bignell.

US Patent Application: 2015/0197789 A1, Publication Date: 16 July 2015;

<http://www.freepatentsonline.com/y2015/0197789.html>

Lucigen Yellow (LucY), a yellow fluorescent protein.

Inventors: Michele E. Auldridge, Laura P. Franz, David Mead, Saurabh Sen, and Eric J. Steinmetz.

US Patent Application: 2015/0198533 A1, Publication Date: 16 July 2015;

<https://www.google.com/patents/US20150198533>

Method for Sequencing a Polynucleotide Template.

Inventors: Geoffrey Paul Smith, Jonathan Mark Boutell, Colin Lloyd Barnes, Roberto Rigatti, Niall Anthony Gormley, David Bentley, Tobias William Barr Ost, Vincent Peter Smith, Graham John Worsley, and Eric Hans Vermaas.

U.S. Patent Application: 2015/0203910 A1, Publication Date: 23 July 2015;

<https://www.google.com/patents/US20150203910>

Molecular characterization of ring chromosome 18 by low-coverage next generation sequencing.

Xiuqing Ji, Dong Liang, Ruihong Sun, Cuiyun Liu, Dingyuan Ma, Yan Wang, Ping Hu, and Zhengfeng Xu.

BMC Medical Genetics, 30 July 2015; 16(1): 57, 7 pp.

<http://www.biomedcentral.com/1471-2350/16/57>

Comparative genomics analysis of pKF3-94 in *Klebsiella pneumoniae* reveals plasmid compatibility and horizontal gene transfer.

Jianchao Ying, Songquan Wu, Kaibo Zhang, Ziqiang Wang, Wen Zhu, Mei Zhu, Ying Zhang, Cong Cheng, Huifeng Wang, Huifen Tou, Chuanxin Zhu, Peizhen Li, Jun Ying, Teng Xu, Huiguang Yi, Jinsong Li, Liyan Ni, Zuyuan Xu, Qiyu Bao, and Junwan Lu
Frontiers in Microbiology, 18 August 2015; 6: 831, 10 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4539522/>

[Multiplex Quantification of 12 European Union Authorized Genetically Modified Maize Lines with Droplet Digital Polymerase Chain Reaction.](#)

David Dobnik, Bjørn Spilsberg, Alexandra Bogožalec Košir, Arne Holst-Jensen, and Jana Žel.
Analytical Chemistry, 18 August 2015; 87(16): 8218-8226.
<http://pubs.acs.org/doi/full/10.1021/acs.analchem.5b01208>

[Methods for analyzing nucleic acids.](#)

Inventor: Mark Umbarger
United States Patent: US 9115387 B2, Publication Date: 25 August 2015;
<https://www.google.com/patents/US9115387>

[Paternal sperm DNA methylation associated with early signs of autism risk in an autism-enriched cohort.](#)

Jason I. Feinberg, Kelly M. Bakulski, Andrew E. Jaffe, Rakel Tryggvadottir, Shannon C. Brown, Lynn R. Goldman, Lisa A. Croen, Irva Hertz-Picciotto, Craig J Newschaffer, M Daniele Fallin and Andrew P Feinberg
International Journal of Epidemiology, August 2015; 44(4):1199-1210. (HS+)
<http://ije.oxfordjournals.org/content/early/2015/04/14/ije.dyv028.full.pdf+html>

[Acetylcholinesterase 1 in populations of organophosphate-resistant North American strains of the cattle tick, *Rhipicephalus microplus* \(Acari: Ixodidae\).](#)

Kylie G. Bendele, Felix D. Guerrero, Robert J. Miller, Andrew Y. Li, Roberto A. Barrero, Paula M. Moolhuijzen, Michael Black, John K McCooke, Jason Meyer, Catherine A. Hill, Matthew I. Bellgard
Parasitology Research, August 2015; 114(8): 3027-3040.

[An all-purpose genome assembler for next-generation sequencing reads.](#)

Luo, Ruibang (罗锐邦)
PhD Theses, August 2015; The University of Hong Kong, 150 pp.
<http://hub.hku.hk/bitstream/10722/224657/1/FullText.pdf?accept=1>

[Xenopus tropicalis Genome Re-Scaffolding and Re-Annotation Reach the Resolution Required for In Vivo ChIA-PET Analysis.](#)

Nicolas Buisine, Xiaoan Ruan, Patrice Bilesimo, Alexis Grimaldi, Gladys Alfama, Pramila Ariyaratne, Fabianus Mulawadi, Jieqi Chen, Wing-Kin Sung, Edison T. Liu, Barbara A. Demeneix, Yijun Ruan, Laurent M. Sachs
PLoS One, 8 September 2015; 10(9): e0137526, 27 pp.
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0137526>

[Methods and apparatuses for nucleic acid shearing by sonication.](#)

Inventors: Vladimir I. Bashkirov, Umberto Ulmanella, Robert G. Eason, and Bradford J. Taft.
United States Patent: US 9127306 B2, Publication Date: 8 September 2015.
<https://www.google.com/patents/US9127306>

[Isolamento de aptâmeros ligantes à sequência 3'-UTR do RNA do vírus da dengue.](#)

Amanda Gabrielle da Silva

MS Theses, 9 September 2015; Universidade Federal de Goiás, Catalão, Brazil, 66 pp.

<http://repositorio.bc.ufg.br/tede/handle/tede/5135>

[Potential mechanisms of attenuation for rifampicin-passaged strains of *Flavobacterium psychrophilum*](#)

Karol Gliniewicz, Mark Wildung, Lisa H. Orfe, Gregory D. Wiens, Kenneth D. Cain, Kevin K. Lahmers, Kevin R. Snekvik, and Douglas R. Call

BMC Microbiology, 16 September 2015; 15: 179, 15 pp. (HS+)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4571129/>

[High-throughput dynamic reagent delivery system.](#)

Inventors: Andrew D. Griffiths, Marie Leman, Robert Nicol, Scott Steelman, and Patrick Tabeling.

US Patent Application: 2015/0258520 A1, Publication Date: 17 September 2015.

<http://www.freepatentsonline.com/y2015/0258520.html>

[Compositions and methods for long insert, paired end libraries of nucleic acids in emulsion droplets.](#)

Inventors: Scott Steelman, Robert Nicol, and Robert Lintner.

US Patent Application: 2015/0259674 A1, Publication Date: 17 September 2015.

<http://www.freepatentsonline.com/y2015/0259674.html>

[Comparative genomics of *Steinernema* reveals deeply conserved gene regulatory networks.](#)

Adler R. Dillman, Marissa Macchietto, Camille F. Porter, Alicia Rogers, Brian Williams, Igor Antoshechkin, Ming-Min Lee et al. Zane Goodwin, Xiaojun Lu, Edwin E. Lewis, Heidi Goodrich-Blair, S. Patricia Stock, Byron J. Adams, Paul W. Sternberg, Ali Mortazavi

Genome Biology, 21 September 2015; 16(1): 200, 21 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4578762/>

[Unveiling novel aspects of D-amino acid metabolism in the model bacterium *Pseudomonas putida* KT2440.](#)

Atanas D. Radkov

PhD Theses, 21 September 2015; *University of Kentucky*, Lexington, 114 pp.

http://uknowledge.uky.edu/cgi/viewcontent.cgi?article=1069&context=pss_etds

[Loss of *Karma* transposon methylation underlies the mantled somaclonal variant of oil palm.](#)

Meilina Ong-Abdullah, Jared M. Ordway, Nan Jiang, Siew-Eng Ooi, Sau-Yee Kok, Norashikin Sarpan, Nuraziyan Azimi et al. Ahmad Tarmizi Hashim, Zamzuri Ishak, Samsul Kamal Rosli, Fadila Ahmad Malike, Nor Azwani Abu Bakar, Marhalil Marjuni, Norziha Abdullah, Zulkifli Yaakub, Mohd Din Amiruddin, Rajanaidu Nookiah, Rajinder Singh, Eng-Ti Leslie Low, Kuang-Lim Chan, Norazah Azizi, Steven W. Smith, Blaire Bacher, Muhammad A. Budiman, Andrew Van Brunt, Corey Wischmeyer, Melissa Beil, Michael Hogan, Nathan Lakey, Chin-Ching Lim, Xavier Arulandoo, Choo-Kien Wong, Chin-Nee Choo, Wei-Chee Wong, Yen-Yen Kwan, Sharifah Shahrul Rabiah Syed Alwee, Ravigadevi Sambanthamurthi & Robert A. Martienssen

Nature, 24 September 2015; 525(7570): 533-537.

<http://www.nature.com/nature/journal/v525/n7570/pdf/nature15365.pdf>

[Methods of sample preparation.](#)

Inventors: Steven Robert Head, Phillip T. Ordoukhanian, and Daniel R. Salomon.
US Patent Application: 2015/0265995 A1, Publication Date: 24 September 2015;
<http://www.freepatentsonline.com/y2015/0265995.html>

[Sequence composition of BAC clones and SSR markers mapped to Upland cotton chromosomes 11 and 21 targeting resistance to soil-borne pathogens.](#)

Congli Wang, Mauricio Ulloa, Xinyi Shi, Xiaohui Yuan, Christopher Saski, John Z. Yu, and Philip A. Roberts.
Frontiers in Plant Science, 2 October 2015; 6: 791, 17 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4591483/>

[A novel retroviral mutagenesis screen identifies prognostic genes in RUNX1 mediated myeloid leukemogenesis.](#)

Dustin T. Rae, Jonah D. Hocum, Victor Bii, H. Joachim Deeg, and Grant D. Trobridge.
Oncotarget, 13 October 2015; 6(31): 30664-30674.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4741560/>

[A Novel Bacteriophage targeting *Cronobacter sakazakii* is a potential biocontrol agent in foods.](#)

Ju-Hoon Lee, Jaewoo Bai, Hakdong Shin, Yeran Kim, Bookyung Park, Sunggi Heu, Sangryeol Ryu.
Applied and Environmental Microbiology, 23 October 2015; 82(1): 192-201.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4702651/>

[Use of in vivo Expression Technology for the Identification of Putative Host Adaptation Factors of the Lyme Disease Spirochete.](#)

Timothy Casselli, and Troy Bankhead.
Journal of Molecular Microbiology and Biotechnology, October 2015; 25(5): 349-361.

[Methods and systems for genomic analysis.](#)

Inventors: Jason Harris, Mark R. Pratt, John West, Richard Chen, and Ming Li.
United States Patent: US 9183496 B2, Publication Date: 10 November 2015;
<https://www.google.com/patents/US9183496>

[Methods for detecting Aneuploidy.](#)

Inventor: Athurva Gore
US Patent Application: 2015/0322524 A1, Publication Date: 12 November 2015;
<http://www.freepatentsonline.com/y2015/0322524.html>

[A novel gammaretroviral shuttle vector insertional mutagenesis screen identifies SHARPIN as a breast cancer metastasis gene and prognostic biomarker.](#)

Victor M. Bii, Dustin T. Rae, and Grant D. Trobridge.
Oncotarget, 24 November 2015; 6(37): 39507-39520.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4741842/>

[Methods and Apparatuses for Nucleic Acid Shearing by Sonication.](#)

Inventors: Vladimir I. Bashkirov, Umberto Ulmanella, Robert G. Eason, and Bradford J. Taft.
US Patent Application: 2015/0337299 A1, Publication Date: 26 November 2015;
<https://www.google.com/patents/US20150337299>

[Methods and Apparatuses for Nucleic Acid Shearing by Sonication.](#)

Inventors: Vladimir I. Bashkirov, Umberto Ulmanella, Robert G. Eason, and Bradford J. Taft.

US Patent Application: 2015/0337300 A1, Publication Date: 26 November 2015;
<https://www.google.com/patents/US20150337300>

The lifestyles of viruses in the sunlit ocean revealed through isolation, genomics, and infection dynamics.

Michael Curtis Grier Carlson

PhD Theses, November 2015; University of Washington, 144 pp.

https://digital.lib.washington.edu/researchworks/bitstream/handle/1773/35288/Carlson_washington_0250E_15362.pdf?sequence=1&isAllowed=y

Genomic integration of lambda EG10 transgene in *gpt* delta transgenic rodents.

Kenichi Masumura, Yasuteru Sakamoto, Wakako Kumita, Masamitsu Honma, Akiyoshi Nishikawa, and Takehiko Nohmi.

Genes and Environment, 1 December 2015; 37(1): 24, 13 pp.

<http://genesenvironment.biomedcentral.com/articles/10.1186/s41021-015-0024-6>

Methods for analyzing nucleic acids.

Inventor: Mark Umbarger

US Patent Application: 2015/0354003 A1, Publication Date: 10 December 2015;

<http://www.freepatentsonline.com/y2015/0354003.html>

Methods for genome assembly and haplotype phasing.

Inventors: Richard E. Green Jr, and Liana F. Lareau.

US Patent Application: 2015/0363550 A1, Publication Date: 17 December 2015;

<http://www.freepatentsonline.com/y2015/0363550.html>

Methods and systems for storing sequence read data.

Inventors: Caleb J. Kennedy, and Niru Chennagiri.

United States Patent: US 9218352 B2, Publication Date: 22 December 2015;

<https://www.google.com/patents/US9218352>

Identification and Characterization of Microsatellite Markers Derived from the Whole Genome Analysis of *Taenia solium*.

Pajuelo Mónica J., María Eguiluz, Eric Dahlstrom, David Requena, Frank Guzmán, Manuel Ramirez, Patricia Sheen, Michael Frace, Scott Sammons, Vitaliano Cama, Sarah Anzick, Dan Bruno, Siddhartha Mahanty, Patricia Wilkins, Theodore Nash, Armando Gonzalez, Héctor H. García, Robert H. Gilman, Steve Porcella, Mirko Zimic

PLoS Neglected Tropical Diseases, 23 December 2015; 9(12): e0004316, 15 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4689449/>

Methods for closed chromatin mapping and DNA methylation analysis for single cells.

Inventors: Xinghua Pan, and Sherman M. Weissman

US Patent Application: 2015/0368694 A1, Publication Date: 24 December 2015;

<http://www.freepatentsonline.com/y2015/0368694.html>

Modified Genomic Sequencing PCR Using the MiSeq Platform to Identify Retroviral Integration Sites.

Dustin T. Rae, Casey P. Collins, Jonah D. Hocum, Diana L. Browning, and Grant D. Trobridge.

Human Gene Therapy Methods, December 2015; 26(6): 221-227.

Lentiviral vector-mediated insertional mutagenesis screen identifies genes that influence androgen independent prostate cancer progression and predict clinical outcome.

Arun K. Nalla, Theodore F. Williams, Casey P. Collins, Dustin T. Rae, and Grant D. Trobridge.
Molecular Carcinogenesis, 29 October 2015; e-pub ahead of the print

Insulated Foamy Viral Vectors.

Diana L. Browning, Casey P. Collins, Jonah D. Hocum, David Leap, Dustin T. Rae, and Grant D. Trobridge.

Human Gene Therapy, 30 December 2015; e-pub ahead of the print.

The Pyrosequencing Protocol for Bacterial Genomes.

Ermanno Rizzi

Methods in Molecular Biology, 2015; 1231(Bacterial Pangenomics): 49-75

Genetic Enzyme Screening System: A Method for High-Throughput Functional Screening of Novel Enzymes from Metagenomic Libraries.

Haseong Kim, Kil Koang Kwon, Eugene Rha, and Seung-Goo Lee.

In: *Hydrocarbon and Lipid Microbiology Protocols*, 2015; Springer Protocols Handbooks, Springer-Verlag, Berlin-Heidelberg, 4-2, 10 pp.

Use of Bacterial Artificial Chromosomes in Metagenomics Studies, Overview.

Lingling Wang, Shamima Nasrin, Mark Liles, and Zhongtang Yu.

In: *Encyclopedia of Metagenomics*, 2015; Karen E. Nelson ed., Springer NY, pp. 671-680.

Use of Viral Metagenomes from Yellowstone Hot Springs to Study Phylogenetic Relationships and Evolution.

Thomas W. Schoenfeld, and David Mead.

In: *Encyclopedia of Metagenomics*, 2015; Karen E. Nelson ed., Springer NY, pp. 681-700.

Research on DNA Matching and Classification.

Priti C. Golar, and U.N. Shrivankar.

Online Publication, 2015; 15 pp.

https://www.researchgate.net/profile/Urmila_Shrawankar/publication/275947728_Research_on_DNA_Matching_and_Classification/links/554b12040cf29752ee7c395d.pdf

Population Declines and Genetic Variation: Effects of Serial Bottlenecks.

Taylor Eilers Callicrate

PhD Theses, 2015; University of Maryland, College Park, 181 pp.

http://drum.lib.umd.edu/bitstream/handle/1903/17228/Callicrate_umd_0117E_16623.pdf?sequence=1

Rapport d'Activite 2014.

Pierre-Edouard Fournier, Didier Raoult, and Hervé Richet.

Communications, 2015; 116 pp.

http://www.mediterranee-infection.com/arkotheque/client/ihumed/depot_arko/articles/614/rapport-d-activites-cnr-rickettsia-coxiella-bartonella-2014_doc.pdf

2014.

Genes of an otitis media isolate of nontypeable *Haemophilus influenzae*.

Inventors: Lauren O. Bakaletz, Robert S. Munson Jr, and David W. Dyer

United States Patent: 8628917 B2, Publication Date: 14 January 2014

<https://www.google.com/patents/US8628917>

Intermittent detection during analytical reactions.

Inventors: Jon Sorenson, Ali Bashir, Fred Christians, Stephen Turner, Eric C. Olivares, Jason Underwood

United States Patent: 8628940 B2, Publication Date: 14 January 2014

<http://www.google.com/patents/US8628940>

Methods and systems for determining haplotypes and phasing of haplotypes.

Inventors: Roberto Rigatti, Jonathan Mark Boutell

US Patent Application: 2014/0024537 A1, Publication Date: 23 January 2014

<http://www.google.com/patents/US20140024537>

Biomarkers and methods of use thereof.

Inventors: David Craig, Daniel Von Hoff, and John Carpten.

US Patent Application: 2014/0024539 A1, Publication Date: 23 January 2014

<https://www.google.com/patents/US20140024539>

Method of sequencing.

Inventor: Jarle Kotsbak

US Patent Application: 20140031239 A1, Publication Date: 30 January 2014.

<https://www.google.com/patents/US20140031239>

Evolution of Bacteriophage Host Attachment Using Det7 as a Model.

Robert H. Edgar

MS Theses, 4 February 2014; University of Pittsburgh, 58 pp.

<http://d-scholarship.pitt.edu/20360/>

Detecting and classifying copy number variation.

Inventors: Anupama Srinivasan, Richard P. Rava

US Patent Application: 2014/0038830 A1, Publication Date: 6 February 2014

<http://www.google.com/patents/US20140038830>

Genome-guided analysis of transformation efficiency and carbon dioxide assimilation by *Moorella thermoacetica* Y72.

Kenichiro Tsukahara, Akihisa Kita, Yutaka Nakashimada, Tamotsu Hoshino, and Katsuji Murakami.

Gene, 10 February 2014; 535(2): 150-155.

Metagenome-derived alkaline phosphatase

Inventors: Seung Goo Lee, Su Lim Choi, Eugene Rha, Jae Jun Song

United States Patent: 8647854 B2, Publication Date: 11 February 2014;

<http://www.google.com/patents/US8647854>

Evolution of bacteriophage host attachment using Det7 as a model.

Robert H Edgar

MS Theses, 12 February 2014; University of Pittsburgh, 58 pp.

<http://d-scholarship.pitt.edu/20360/>

Method of sequencing.

Inventor: Jarle Kotsbak

U.S. Patent Application: 20140045703 A1, Publication Date: 13 February 2014;

<https://www.google.com/patents/US20140045703>

Genes of an otitis media isolate of nontypeable *Haemophilus influenzae*.

Inventor: Lauren O. Bakaletz, Robert S. Munson Jr, and David W. Dyer.

United States Patent: US 8652773 B2, Publication Date: 18 February 2014;

<https://www.google.com/patents/US8652773>

Gene duplication in an African cichlid adaptive radiation.

Heather E. Machado, Ginger Jui, Domino A. Joyce, Christian RL Reilly, David H. Lunt, and Suzy CP Renn.

BMC Genomics, 26 February 2014; 15(1): 161, 13 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3944005/>

Complete sequence analysis of two cryptic plasmids from *Bifidobacterium kashiwanohense* JCM 15439 (type strain) isolated from healthy infant feces.

Muneaki Takahata, Hidehiro Toh, Akiyo Nakano, Misako Takagi, Masaru Murakami, Yasuo Ishii, Tatsuya Takizawa, Soichi Tanabe, and Hidetoshi Morita.

Animal Science Journal, February 2014; 85(2): 158-163.

<http://www.omx.co.jp/files/attachments/d456e3a41c08c1e289fcf48c1447e4db.pdf>

Discovery of recurrent structural variants in nasopharyngeal carcinoma.

Anton Valouev, Ziming Weng, Robert T. Sweeney, Sushama Varma, Quynh-Thu Le, Christina Kong, Arend Sidow, and Robert B. West.

Genome Research, February 2014; 24(2): 300-309.

<http://genome.cshlp.org/content/suppl/2013/11/21/gr.156224.113.DC1.html>

Genomic and transcriptomic plasticity in treatment-naive ovarian cancer.

Marlous Hoogstraat, Mirjam S. de Pagter, Geert A. Cirkel, Markus J. van Roosmalen, Timothy T. Harkins, Karen Duran, Jennifer Kreeftmeijer, Ivo Renkens, Petronella O. Witteveen, Clarence C. Lee, Isaac J. Nijman, Tanisha Guy, Ruben van 't Slot, Trudy N. Jonges, Martijn P. Lolkema, Marco J. Koudijs, Ronald P. Zweemer, Emile E. Voest, Edwin Cuppen, and Wigard P. Kloosterman

Genome Research, February 2014; 24(2): 200-211.

<http://genome.cshlp.org/content/24/2/200.full>

Sequencing and assembly of the 22-Gb loblolly pine genome.

Aleksey Zimin, Kristian A. Stevens, Marc W. Crepeau, Ann Holtz-Morris, Maxim Koriabine, Guillaume Marçais, Daniela Puiu, Michael Roberts, Jill L. Wegrzyn, Pieter J. de Jong, David B. Neale, Steven L. Salzberg, James A. Yorke and Charles H. Langley

Genetics, 1 March 2014; 196(3): 875-890.

<http://www.genetics.org/content/196/3/875.long>

High frequency of phylogenetically diverse reductive dehalogenase-homologous genes in deep seafloor sedimentary metagenomes.

Mikihiko Kawai, Taiki Futagami, Atsushi Toyoda, Yoshihiro Takaki, Shinro Nishi, Sayaka Hori, Wataru Arai, Taishi Tsubouchi, Yuki Morono, Ikuo Uchiyama, Takehiko Ito, Asao Fujiyama, Fumio Inagaki, and Hideto Takami.

Frontiers in Microbiology, 3 March 2014; 5: 80, 15 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3939436/>

Detection of chromosomal breakpoints in patients with developmental delay and speech disorders.

Kagistia H. Utami, Axel M. Hillmer, Irene Aksoy, Elaine GY Chew, Audrey SM Teo, Zhenshui Zhang, Charlie WH Lee, Pauline J. Chen, Chan Chee Seng, Pramila N. Ariyaratne, Sigrid L. Rouam, Lim Seong Soo, Saira Yousoof, Ivan Prokudin, Gregory Peters, Felicity Collins, Meredith Wilson, Alyson Kakakios, Georges Haddad, Arnaud Menuet, Olivier Perche, Stacey Kiat Hong Tay, Ken W. K. Sung, Xiaolan Ruan, Yijun Ruan, Edison T. Liu, Sylvain Briault, Robyn V. Jamieson, Sonia Davila, Valere Cacheux

PLoS One, 6 March 2014; 9(3): e90852, 10 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3946304/>

Method of preparing libraries of template polynucleotides

Inventors: Niall Anthony Gormley, Geoffrey P. Smith, David Bentley, Roberto Rigatti, Shujun Luo
US Patent Application: 2014/0066335 A1, Publication Date: 6 March 2014;

<http://www.google.com/patents/US20140066335>

Sequencing of a Patient with Balanced Chromosome Abnormalities and Neurodevelopmental Disease Identifies Disruption of Multiple High Risk Loci by Structural Variation.

Jonathon Blake, Andrew Riddell, Susanne Theiss, Alexis P. Gonzalez, Bettina Haase, Anna Jauch, Johannes WG Janssen, David Ibberson, Dinko Pavlinic, Ute Moog, Vladimir Benes, and Heiko Runz
PLoS One, 13 March 2014; 9(3): e90894, 11 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3953210/>

Whole DNA methylome profiling in lung cancer cells before and after epithelial-to-mesenchymal transition.

Fatao Liu, Yi Zhou, Daizhan Zhou, Mengyuan Kan, Xiaomin Niu, Zhou Zhang, Di Zhang, Liming Tao, Lin He, Lixing Zhan and Yun Liu

Diagnostic Pathology, 20 March 2014; 9(1): 66, 10 pp.

<http://www.diagnosticpathology.org/content/9/1/66>

Methods for reducing nucleic acid damage.

Inventors: Kay Klausing, Min-Jui Richard Shen, John Moore, Vincent Peter Smith, Kevin Hall, Niall Anthony Gormley, Avgousta Ioannou, Epameinondas Fritzilas, and Roberto Rigatti.

U.S. Patent Application: 2014/0080721 A1, Publication Date: 20 March 2014;

<https://www.google.com/patents/US20140080721>

Toward a Generalized and High-throughput Enzyme Screening System Based on Artificial Genetic Circuits.

Su-Lim Choi, Eugene Rha, Sang Jun Lee, Haseong Kim, Kilkoang Kwon, Young-Su Jeong, Young Ha Rhee, Jae Jun Song, Hak-Sung Kim, and Seung-Goo Lee.

ACS Synthetic Biology, 21 March 2014; 3(3): 163-171.

https://www.researchgate.net/profile/Young-Su-Jeong/publication/259112330_Towards_a_Generalized_and_High-throughput_Enzyme_Screening_System_Based_on_Artificial_Genetic_Circuits/links/5412f8a60cf2b67347db1562.pdf

Characterization and classification of Bo4 as a cluster G mycobacteriophage that can infect and lyse *M. tuberculosis*.

Yiling Gan, Tingting Wu, Ping Liu, and Shuliang Guo.
Archives of Microbiology, March 2014; 196(3): 209-218.

Sequencing and assembly of the 22-Gb loblolly pine genome.

Aleksey Zimin, Kristian A. Stevens, Marc W. Crepeau, Ann Holtz-Morris, Maxim Koriabine, Guillaume Marçais, Daniela Puiu, Michael Roberts, Jill L. Wegrzyn, Pieter J. de Jong, David B. Neale, Steven L. Salzberg, James A. Yorke, and Charles H. Langley
Genetics, March 2014; 196(3): 875-890. (HS+)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3948813/pdf/875.pdf>

Characterization and overexpression of a novel β -agarase from *Thalassomonas agarivorans*.

S-S. Liang, Y-P. Chen, Y-H. Chen, S-H. Chiu, and L-L. Liaw.
Journal of Applied Microbiology, March 2014; 116(3): 563-572.

The complete genome sequence of the *Alphaentomopoxvirus anomala cuprea entomopoxvirus* including its terminal hairpin loop sequences, suggests a potentially unique mode of apoptosis inhibition and mode of DNA replication.

Wataru Mitsuhashi, Kazuhisa Miyamoto, and Sanae Wada.
Virology, March 2014; 452-453: 95-116.
<http://www.sciencedirect.com/science/article/pii/S0042682213007083>

Whole-genome haplotyping using long reads and statistical methods.

Volodymyr Kuleshov, Dan Xie, Rui Chen, Dmitry Pushkarev, Zhihai Ma, Tim Blauwkamp, Michael Kertesz, and Michael Snyder.
Nature Biotechnology, March 2014; 32(3): 261-266.
<http://www.nature.com/nbt/journal/v32/n3/full/nbt.2833.html>

Characterization of Genetic Diversity in the Nematode *Pristionchus pacificus* from Population-Scale Resequencing Data

Christian Rödelsperger, Richard A. Neher, Andreas M. Weller, Gabi Eberhardt, Hanh Witte, Werner E. Mayer, Christoph Dieterich and Ralf J. Sommer
Genetics, 1 April 2014; 196(4): 1153-1165

The Draft Genome Sequence of European Pear (*Pyrus communis* L. 'Bartlett').

David Chagné, Ross N. Crowhurst, Massimo Pindo, Amali Thrimawithana, Cecilia Deng, Hilary Ireland, Mark Fiers, Helge Dzierzon, Alessandro Cestaro, Paolo Fontana, Luca Bianco, Ashley Lu, Roy Storey, Mareike Knaebel, Munazza Saeed, Sara Montanari, Yoon Kyeong Kim, Daniela Nicolini, Simone Larger, Erika Stefani, Andrew C. Allan, Judith Bowen, Isaac Harvey, Jason Johnston, Mickael Malnoy, Michela Troggio, Laure Perchepped, Greg Sawyer, Claudia Wiedow, Kyungho Won, Roberto Viola, Roger P. Hellens, Lester Brewer, Vincent G. M. Bus, Robert J. Schaffer, Susan E. Gardiner, Riccardo Velasco
PLoS One, 3 April 2014; 9(4): e92644, 12 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3974708/>

潘孝明, and 梁兴国. "[全基因组扩增技术原理及研究进展.](#)"

[Principle of Whole Genome Amplification Technology and Its Progress](#)

Pan Xiaoming Liang Xingguo

生物技术通报 (Biotechnology Bulletin), 10 April 2014; 12: 47-54

[Multiple Long Mate Pair Approaches to Facilitate Short Read based de novo Genome Assembly.](#)

Julianna Chow, Jaya Rajamani, James Han, Alicia Clum, Alex Copeland, Shweta Deshpande and Chia-lin Wei

LLNL-ABS-546451, 21 April 2014, 2 pp.

<http://escholarship.org/uc/item/34f6p03s>

[The emerging biofuel crop *Camelina sativa* retains a highly undifferentiated hexaploid genome structure.](#)

Sateesh Kagale, Chushin Koh, John Nixon, Venkatesh Bollina, Wayne E. Clarke, Reetu Tuteja, Charles Spillane, Stephen J. Robinson, Matthew G. Links, Carling Clarke, Erin E. Higgins, Terry Huebert, Andrew G. Sharpe, and Isobel A. P. Parkin

Nature Communications, 23 April 2014; 5: 3706, 11 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4015329/>

[Sequencing and annotated analysis of full genome of Holstein breed bull.](#)

Sulev Kõks, Ene Reimann, Rutt Lilleoja, Freddy Lättekivi, Andres Salumets, Paula Reemann, and Ülle Jaakma.

Mammalian Genome, 26 April 2014; 24(7-8): 309-321.

[Reconstructing complex regions of genomes using long-read sequencing technology.](#)

John Huddleston, Swati Ranade, Maika Malig, Francesca Antonacci, Mark Chaisson, Lawrence Hon, Peter H. Sudmant, Tina A. Graves, Can Alkan, Megan Y. Dennis, Richard K. Wilson, Stephen W. Turner, Jonas Korlach and Evan E. Eichler

Genome Research, April 2014; 24(4): 688-696.

<http://genome.cshlp.org/content/24/4/688.long>

[The peculiar landscape of repetitive sequences in the olive \(*Olea europaea* L.\) genome.](#)

Elena Barghini, Lucia Natali, Rosa Maria Cossu, Tommaso Giordani, Massimo Pindo, Federica Cattonaro, Simone Scalabrin, Riccardo Velasco, Michele Morgante, and Andrea Cavallini.

Genome Biology and Evolution, April 2014; 6(4): 776-791.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4007544/>

[Characterization of genetic diversity in the nematode *Pristionchus pacificus* from population-scale resequencing data.](#)

Christian Rödelberger, Richard A. Neher, Andreas M. Weller, Gabi Eberhardt, Hanh Witte, Werner E. Mayer, Christoph Dieterich, and Ralf J. Sommer.

Genetics, April 2014; 196(4): 1153-1165.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3982705/>

[EXPRSS: an Illumina based high-throughput expression-profiling method to reveal transcriptional dynamics.](#)

Ghanasyam Rallapalli, Eric M. Kemen, Daniel MacLean, Alexandre Robert-Seilaniantz, Cécile Segonzac, Graham Etherington, Kee H. Sohn, and Jonathan DG Jones.
BMC Genomics, 6 May 2014; 15(1): 341, 18 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4035070/>

Development and Evaluation of Quality Metrics for Bioinformatics Analysis of Viral Insertion Site Data Generated Using High Throughput Sequencing.

Hongyu Gao, Troy Hawkins, Aparna Jasti, Yu-Hsiang Chen, Keithanne Mockaitis, Mary Dinauer, and Kenneth Cornetta.
Biomedicines, 6 May 2014; 2(2): 195-210.
<http://www.mdpi.com/2227-9059/2/2/195/htm>

Genes of an Otitis Media Isolate of Nontypeable *Haemophilus Influenzae*

Inventors: Lauren O. Bakaletz, Robert S. Munson, Jr., David W. Dyer
US Patent Application: 2014/0127221 A1, Publication Date: 8 May 2014;
<http://www.google.com/patents/US20140127221>

Methods and systems for identifying contamination in samples.

Inventors: Mark Umbarger, Gregory Porreca
US Patent Application: 2014/0127688 A1, Publication Date: 8 May 2014;
<http://www.google.com/patents/US20140127688>

Validation of genetic tests.

Inventors: Caleb Kennedy, Gregory Porreca, Mark Umbarger
US Patent Application: 2014/0129201 A1, Publication Date: 8 May 2014
<http://www.google.com/patents/US20140129201>

A novel whole genome amplification method using type IIS restriction enzymes to create overhangs with random sequences.

Xiaoming Pan, Baihui Wan, Chunchuan Li, Yu Liu, Jing Wang, Haijin Mou, and Xingguo Liang.
Journal of Biotechnology, 13 May 2014; 184: 1-6.

Detection of Antibiotic Resistance in the Environment using Functional Metagenomics.

Younshim Park
MS Theses, 15 May 2014; Emporia State University, 77 pp.
<https://esirc.emporia.edu/bitstream/handle/123456789/3304/Younshim%20Park%20Thesis.pdf?sequence=1>

Intermittent detection during analytical reactions.

Inventors: Stephen Turner, Jon Sorenson, Kenneth Mark Maxham, John Eid
US Patent Application: 2014/0134629 A1, Publication Date: 15 May 2014
<http://www.google.com/patents/US20140134629>

Attaching a stem-loop oligonucleotide to a double stranded DNA molecule.

Inventors: Vladimir L. Makarov, Emmanuel Kamberov, Brendan J. Tarrier
United States Patent: US 8728737 B2, Publication Date: 20 May 2014
<http://www.google.com/patents/US8728737>

尤晓颜, 张彬, 郑华军, and 姜成英. "[微生物完整基因组测定中的 Gap closure 策略.](#)"

Strategies of gap closure in complete microbial genome sequencing

Xiao-Yan You, Bin Zhang, Hua-Jun Zheng, Cheng-Ying Jiang

微生物学通报 (Microbiology China), 20 May 2014; 41(5): 924-933.

http://journals.im.ac.cn/wswxtbcn/ch/reader/create_pdf.aspx?file_no=tb14050924

Identification of candidate risk gene variations by whole-genome sequence analysis of four rat strains commonly used in inflammation research.

Liselotte Bäckdahl, Diana Ekman, Maja Jagodic, Tomas Olsson, and Rikard Holmdahl.

BMC Genomics, 21 May 2014; 15(1): 391, 16 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4041999/>

A novel approach to identify driver genes involved in androgen-independent prostate cancer.

Ellyn N. Schinke, Victor Bii, Arun Nalla, Dustin T. Rae, Laura Tedrick, Gary G. Meadows, and Grant D. Trobridge.

Molecular Cancer, 23 May 2014; 13: 120, 12 pp.

<http://www.molecular-cancer.com/content/13/1/120>

Sequence assembly.

Inventors: Gregory Porreca and Caleb J. Kennedy.

United States Patent: US 8738300 B2, Publication Date: 27 May 2014;

<https://www.google.com/patents/US8738300>

Methods of enhancing biogenic production of methane from hydrocarbon-bearing formations.

Inventors: Gerardo Vicente Toledo, Toby Howard Richardson, Ulrich Stingl, Eric J. Mathur, J. Craig Venter

United States Patent: US 8448702 B2, Publication Date: 28 May 2014;

<http://www.google.com/patents/US8448702>

Multiplexed anchor scanning parallel end tag sequencing.

Inventor: Chaouki Miled

U.S. Patent Application: 2014/0148364 A1, Publication Date: 29 May 2014;

<https://www.google.com/patents/US20140148364>

A Robust Approach for Blind Detection of Balanced Chromosomal Rearrangements with Whole-Genome Low-Coverage Sequencing.

Zirui Dong, Lupin Jiang, Chuanchun Yang, Hua Hu, Xiuhua Wang, Haixiao Chen, Kwong Wai Choy, Huamei Hu, Yanling Dong, Bin Hu, Juchun Xu, Yang Long, Sujie Cao, Hui Chen, Wen-Jing Wang, Hui Jiang, Fengping Xu, Hong Yao, Xun Xu and Zhiqing Liang

Human Mutation, May 2014; 35(5): 625-636.

https://www.researchgate.net/profile/Zhiqing_Liang/publication/269280111_A_Robust_Approach_for_Blind_Detection_of_Balanced_Chromosomal_Rearrangements_with_Whole-Genome_Low-Coverage_Sequencing/links/548682410cf289302e2c0a4f.pdf

Efficient *de novo* assembly of large and complex genomes by massively parallel sequencing of Fosmid pools.

Andrey Alexeyenko, Björn Nystedt, Francesco Vezzi, Ellen Sherwood, Rosa Ye, Bjarne Knudsen, Martin Simonsen, Benjamin Turner, Pieter de Jong, Cheng-Cang Wu and Joakim Lundeberg

BMC Genomics, 6 June 2014; 15(1): 439, 10 pp.

<http://www.biomedcentral.com/1471-2164/15/439>

Transcriptome and methylome profiling reveals relics of genome dominance in the mesopolyploid *Brassica oleracea*

Isobel AP Parkin, Chushin Koh, Haibao Tang, Stephen J Robinson, Sateesh Kagale, Wayne E Clarke, Chris D Town, John Nixon, Vivek Krishnakumar, Shelby L Bidwell, France Denoeud, Harry Belcram, Matthew G Links, J r my Just, Carling Clarke, Tricia Bender, Terry Huebert, Annaliese S Mason, J Chris Pires, Guy Barker, Jonathan Moore, Peter G Walley, Sahana Manoli, Jacqueline Batley, David Edwards, Matthew N Nelson, Xiyin Wang, Andrew H Paterson, Graham King, Ian Bancroft, Boulos Chalhouh and Andrew G Sharpe

Genome Biology, 10 June 2014; 15: R77, 18 pp.

<http://genomebiology.com/content/pdf/gb-2014-15-6-r77.pdf>

Genome sequence of *Ensifer arboris* strain LMG 14919^T; a microsymbiont of the legume *Prosopis chilensis* growing in Kosti, Sudan

Wayne Reeve, Rui Tian, Lambert Br u, Lynne Goodwin, Christine Munk, Chris Detter, Roxanne Tapia, Cliff Han, Konstantinos Liolios, Marcel Huntemann, Amrita Pati, Tanja Woyke, Konstantinos Mavrommatis, Victor Markowitz, Natalia Ivanova, Nikos Kyrpides, Anne Willems

Standards in Genomic Sciences, 15 June 2014; 9(3): 473–483. (JGI)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148966/pdf/sigs.4828625.pdf>

Genome sequence of the chromate-resistant bacterium *Leucobacter salsicius* type strain M1-8^T

Ji-Hyun Yun, Yong-Joon Cho, Jongsik Chun, Dong-Wook Hyun, Jin-Woo Bae

Standards in Genomic Sciences, 15 June 2014; 9(3): 495–504. (PacBio/JGI, 8kb)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148977/pdf/sigs.4708537.pdf>

Genome sequence of the squalene-degrading bacterium *Corynebacterium terpenotabidum* type strain Y-11^T (= DSM 44721^T)

Christian R ckert, Andreas Albersmeier, Arwa Al-Dilaimi, Hanna Bednarz, Karsten Niehaus, Rafael Szczepanowski, J rn Kalinowski

Standards in Genomic Sciences, 15 June 2014; 9(3): 505–513. (Roche 3kb library)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4149027/pdf/sigs.4588337.pdf>

Genome sequence of *Ensifer medicae* strain WSM1115; an acid-tolerant *Medicago-nodulating* microsymbiont from Samothraki, Greece

Wayne Reeve, Ross Ballard, John Howieson, Elizabeth Drew, Rui Tian, Lambert Br u, Christine Munk, Karen Davenport, Patrick Chain, Lynne Goodwin, Ioanna Pagani, Marcel Huntemann, Konstantinos Mavrommatis, Amrita Pati, Victor Markowitz, Natalia Ivanova, Tanja Woyke, Nikos Kyrpides

Standards in Genomic Sciences, 15 June 2014; 9(3): 514–526. (JGI 9kb library)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148968/pdf/sigs.4938652.pdf>

Genome sequence of *Rhizobium leguminosarum* bv *trifolii* strain WSM1689, the microsymbiont of the one flowered clover *Trifolium uniflorum*

Jason Terpolilli, Tian Rui, Ron Yates, John Howieson, Philip Poole, Christine Munk, Roxanne Tapia, Cliff Han, Victor Markowitz, Reddy Tatiparthi, Konstantinos Mavrommatis, Natalia Ivanova, Amrita Pati, Lynne Goodwin, Tanja Woyke, Nikos Kyrpides, Wayne Reeve

Standards in Genomic Sciences, 15 June 2014; 9(3): 527–539. (JGI 12 kb library)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4149022/pdf/sigs.4988693.pdf>

Genome sequence of the *Listia angolensis* microsymbiont *Microvirga lotononidis* strain WSM3557^T

Wayne Reeve, Julie Ardley, Rui Tian, Sofie De Meyer, Jason Terpolilli, Vanessa Melino, Ravi Tiwari, Ronald Yates, Graham O'Hara, John Howieson, Mohamed Ninawi, Xiaojing Zhang, David Bruce, Chris Detter, Roxanne Tapia, Cliff Han, Chia-Lin Wei, Marcel Huntemann, James Han, I-Min Chen, Konstantinos Mavromatis, Victor Markowitz, Ernest Szeto, Natalia Ivanova, Ioanna Pagani, Amrita Pati, Lynne Goodwin, Tanja Woyke, Nikos Kyrpides
Standards in Genomic Sciences, 15 June 2014; 9(3): 540–550. (JGI 10 kb library)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4149032/pdf/sigs.4548266.pdf>

Complete genome sequence of *Anabaena variabilis* ATCC 29413

Teresa Thiel, Brenda S. Pratte, Jinshun Zhong, Lynne Goodwin, Alex Copeland, Susan Lucas, Cliff Han, Sam Pitluck, Miriam L. Land, Nikos C Kyrpides, Tanja Woyke
Standards in Genomic Sciences, 15 June 2014; 9(3): 562–573. (3, 9 and 40 kb libraries)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148955/pdf/sigs.3899418.pdf>

Genome sequence and emended description of *Leisingera nanhaiensis* strain DSM 24252^T isolated from marine sediment

Sven Breider, Hazuki Teshima, Jörn Petersen, Olga Chertkov, Hajnalka Dalingault, Amy Chen, Amrita Pati, Natalia Ivanova, Alla Lapidus, Lynne A. Goodwin, Patrick Chain, John C. Detter, Manfred Rohde, Brian J. Tindall, Nikos C. Kyrpides, Tanja Woyke, Meinhard Simon, Markus Göker, Hans-Peter Klenk, Thorsten Brinkhoff
Standards in Genomic Sciences, 15 June 2014; 9(3): 687–703. (JGI 7 kb library)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148953/pdf/sigs.3828824.pdf>

Non-contiguous finished genome sequence and description of *Fenollaria massiliensis* gen. nov., sp. nov., a new genus of anaerobic bacterium.

Isabelle Pagnier, Olivier Croce, Catherine Robert, Didier Raoult, and Bernard La Scola.
Standards in Genomic Sciences, 15 June 2014; 9(3): 704–717 (3-4 kb library)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148993/pdf/sigs.3957647.pdf>

Complete genome of the switchgrass endophyte *Enterobacter cloacae* P101.

Jodi L. Humann, Mark Wildung, Derek Pouchnik, Austin A. Bates, Jennifer C. Drew, Ursula N. Zipperer, Eric W. Triplett, Dorrie Main, Brenda K. Schroeder
Standards in Genomic Sciences, 15 June 2014; 9(3): 726–734. (HS+)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4149030/pdf/sigs.4808608.pdf>

Draft genome sequences and description of *Lactobacillus rhamnosus* strains L31, L34, and L35

Prapaporn Boonma, Jennifer K. Spinler, Xiang Qin, Chutima Jittapasatsin, Donna M. Muzny, Harsha Doddapaneni, Richard Gibbs, Joe Petrosino, Somying Tumwasorn, James Versalovic
Standards in Genomic Sciences, 15 June 2014; 9(3): 744–754. (8 kb library)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148986/pdf/sigs.5048907.pdf>

Complete Genome sequence of *Burkholderia phymatum* STM815^T, a broad host range and efficient nitrogen-fixing symbiont of *Mimosa* species

Lionel Moulin, Agnieszka Klonowska, Bournaud Caroline, Kristina Booth, Jan A.C. Vriezen, Rémy Melkonian, Euan K. James, J. Peter W. Young, Gilles Bena, Loren Hauser, Miriam Land, Nikos

Kyrpides, David Bruce, Patrick Chain, Alex Copeland, Sam Pitluck, Tanja Woyke, Michelle Lizotte-Waniewski, Jim Bristow, Margaret Riley
Standards in Genomic Sciences, 15 June 2014; 9(3): 763–774. (3, 8 and 40 kb libraries)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148976/pdf/sigs.4861021.pdf>

[Non-contiguous finished genome sequence and description of *Bacteroides neonati* sp. nov., a new species of anaerobic bacterium.](#)

Nadim Cassir, Olivier Croce, Isabelle Pagnier, Samia Benamar, Carine Couderc, Catherine Robert, Didier Raoult, Bernard La Scola
Standards in Genomic Sciences, 15 June 2014; 9(3): 794–806
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4149005/>

[Genome sequence and description of *Neterenkonia massiliensis* sp. nov.](#)

Sophie Edouard, Senthil Sankar, Nicole Prisca Makaya Dangui, Jean-Christophe Lagier, Caroline Michelle, Didier Raoult, Pierre-Edouard Fournier
Standards in Genomic Sciences, 15 June 2014; 9(3): 866–882
<http://link.springer.com/article/10.4056/sigs.5631022/fulltext.html>

[Complete genome sequence of the *Phaeobacter gallaeciensis* type strain CIP 105210^T \(= DSM 26640^T = BS107^T\)](#)

Oliver Frank, Silke Pradella, Manfred Rohde, Carmen Scheuner, Hans-Peter Klenk, Markus Göker, Jörn Petersen
Standards in Genomic Sciences, 15 June 2014; 9(3): 914–932 (3 kb library)
<http://link.springer.com/article/10.4056/sigs.5179110/fulltext.html>

[Non-contiguous finished genome sequence of *Corynebacterium timonense* type strain 5401744^T.](#)

Veronique Roux, Catherine Robert, and Didier Raoult.
Standards in Genomic Sciences, 15 June 2014; 9(3): 948–955
<http://link.springer.com/article/10.4056/sigs.4277954/fulltext.html>

[Non contiguous-finished genome sequence and description of *Enorma timonensis* sp. nov.](#)

Dhamodharan Ramasamy, Gregory Dubourg, Catherine Robert, Aurelia Caputo, Laurent Papazian, Didier Raoult, and Pierre-Edouard Fournier.
Standards in Genomic Sciences, 15 June 2014; 9(3): 970–986.
<http://link.springer.com/article/10.4056/sigs.4878632/fulltext.html>

[Non-contiguous finished genome sequence and description of *Anaerococcus provencensis* sp. nov.](#)

Isabelle Pagnier, Olivier Croce, Catherine Robert, Didier Raoult, and Bernard La Scola.
Standards in Genomic Sciences, 15 June 2014; 9(3): 1198–1210.
<http://link.springer.com/article/10.4056/sigs.5501035/fulltext.html>

[Non-contiguous finished genome sequence and description of *Kurthia senegalensis* sp. nov.](#)

Veronique Roux, Jean-Christophe Lagier, Aurore Gorlas, Catherine Robert, and Didier Raoult.
Standards in Genomic Sciences, 15 June 2014; 9(3): 1319–1330.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148981/>

[Non-contiguous finished genome sequence of *Prevotella timonensis* type strain 4401737^T.](#)

Veronique Roux, Catherine Robert, and Didier Raoult.
Standards in Genomic Sciences, 15 June 2014; 9(3): 1346-1353.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4148998/>

[Methods for raising antibodies.](#)

Inventors: Colin W. Dykes, Sergey A. Dryga, Lisa-Jo Ann Clarizia, Eddie W. Adams, Meghan Norvell
US Patent Application: 2014/0171340 A1, Publication Date: 19 June 2014;
<http://www.google.com/patents/US20140171340>

[Development and Evaluation of Quality Metrics for Bioinformatics Analysis of Viral Insertion Site Data Generated Using High Throughput Sequencing.](#)

Hongyu Gao, Troy Hawkins, Aparna Jasti, Yu-Hsiang Chen, Keithanne Mockaitis, Mary Dinauer, and Kenneth Cornetta.
Biomedicines, June 2014; 2(2): 195-210.
<http://www.mdpi.com/2227-9059/2/2/195/htm>

[Exploring functional elements and genomic variation in the noncoding genome](#)

Sebastian August Albert Cornelis van Heesch
PhD Theses, 2 July 2014; Universiteit Utrecht, The Netherlands, 196 pp.
<http://dspace.library.uu.nl/handle/1874/294661>

[NF- \$\kappa\$ B signaling and vesicle transport are correlated with the reactivation of the memory trace of morphine dependence](#)

Junyi Ye, Zhaoyang Yang, Candong Li, Meimei Cai, Daizhan Zhou, Qin Zhang, Yiming Wei, TingWang and Yun Liu
Diagnostic Pathology, 10 July 2014; 9:142, 13 pp
<http://www.biomedcentral.com/content/pdf/1746-1596-9-142.pdf>

[Methods for analyzing nucleic acids.](#)

Inventor: Mark Umbarger
United States Patent: 8778609 B1, Publication Date: 15 July 2014;
<https://www.google.com/patents/US8778609>

[Requirements for *Pseudomonas aeruginosa* acute burn and chronic surgical wound infection.](#)

Keith H. Turner, Jake Everett, Urvish Trivedi, Kendra P. Rumbaugh, and Marvin Whiteley.
PLoS Genetics, 24 July 2014; 10(7): e1004518, 12 pp.
<http://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1004518>

[Malignant catarrhal fever in American bison \(*Bison bison*\) experimentally infected with alcelaphine herpesvirus 2.](#)

Naomi S. Taus, Donal O'Toole, David R. Herndon, Cristina W. Cunha, Janet V. Warg, Bruce S. Seal, Angela Brooking, and Hong Li.
Veterinary Microbiology, 6 August 2014; 172(1): 318-322.

[Xylanase hyper-producer: the genome of the thermophilic fungus *Thermomyces lanuginosus*.](#)

Nokuthula Peace Mchunu
PhD Theses, 8 August 2014; Durban University of Technology, Durban, South Africa, 247 pp.

<http://ir.dut.ac.za/handle/10321/1116>

[High throughput paired-end sequencing of large-insert clone libraries](#)

Inventors: Andreas Gnirke, Robert Nicol, Louise Williams, Maura T. Costello, and Scott Steelman.
U.S. Patent Application: 2014/0228223 A1, Publication Date: 14 August 2014;
<https://www.google.com/patents/US20140228223>

[Variant database.](#)

Inventors: Marcia M. Nizzari, Benjamin H. Breton, David L. Tefft, and Xavier S. Haurie.
United States Patent: 8812422 B2, Publication Date: 19 August 2014;
<https://www.google.com/patents/US8812422>

[A novel whole genome amplification method using type IIS restriction enzymes to create overhangs with random sequences](#)

Xiaoming Pan, Baihui Wan, Chunchuan Li, Yu Liu, Jing Wang, Haijin Mou, Xingguo Liang
Journal of Biotechnology, 20 August 2014; 184(1): 1–6

[Performance comparison of second- and third-generation sequencers using a bacterial genome with two chromosomes](#)

Mari Miyamoto, Daisuke Motooka, Kazuyoshi Gotoh, Takamasa Imai, Kazutoshi Yoshitake, Naohisa Goto, Tetsuya Iida, Teruo Yasunaga, Toshihiro Horii, Kazuharu Arakawa, Masahiro Kasahara and Shota Nakamura
BMC Genomics, 21 August 2014; 15: 699, 9 pp. (HS+)
<http://www.biomedcentral.com/content/pdf/1471-2164-15-699.pdf>

[Population split time estimation and X to autosome effective population size differences inferred using physically phased genomes](#)

Shiya Song, Elzbieta Sliwerska, Jeffrey M Kidd
bioRxiv, 22 August 2014; 25 pp
<http://www.biorxiv.org/content/biorxiv/early/2014/08/22/008367.full.pdf>

[Functional Consequences of Chromosomal Rearrangements in Neurodevelopmental Disorder.](#)

Kagistia Hana Utami
PhD Theses, 23 August 2014; National University of Singapore, 214 pp.
<http://scholarbank.nus.edu.sg/handle/10635/107404>

[DNA amplification and sequencing using DNA molecules generated by random fragmentation.](#)

Inventors: Vladimir L. Makarov, Irina Sleptsova, Emmanuel Kamberov, Eric Bruening
United States Patent: US 8815504 B2, Publication Date: 26 August 2014;
<http://www.google.com/patents/US8815504>

[Methods for separating nucleic acids by size.](#)

Inventors: Roland Fabis, Nadine Krüger, and Jan Petzel.
U.S. Patent Application: 20140243216 A1, Publication Date: 28 August 2014;
<https://www.google.com/patents/US20140243216>

[Variation in allelic expression associated with a recombination hotspot in *Zea mays*.](#)

Jennifer S. Hawkins, Vivian Delgado, Liang Feng, Michael Carlise, Hugo K. Dooner, and Jeffrey L. Bennetzen.

The Plant Journal, August 2014; 79(3): 375–384

<http://onlinelibrary.wiley.com/doi/10.1111/tbj.12537/full>

Sequencing and annotated analysis of full genome of Holstein breed bull

Sulev Kõks, Ene Reimann, Rutt Lilleoja, Freddy Lättekivi, Andres Salumets, Paula Reemann, and Ülle Jaakma.

Mammalian Genome, August 2014; 25(7-8): 363-373.

Patterns of simple sequence repeats in cultivated blueberries (*Vaccinium* section *Cyanococcus* spp.) and their use in revealing genetic diversity and population structure.

Yang Bian, James Ballington, Archana Raja, Cory Brouwer, Robert Reid, Mark Burke, Xinguo Wang, Lisa J. Rowland, Nahla Bassil, and Allan Brown.

Molecular Breeding, August 2014; 34(2): 675-689.

[http://www.researchgate.net/profile/Yang_Bian/publication/261171379_Patterns_of_simple_sequence_repeats_in_cultivated_blueberries_\(Vaccinium_sectionCyanococcus_spp.\)_and_their_use_in_revealing_genetic_diversity_and_population_structure._Mol._Breeding/links/5422c1af0cf238c6ea6bf7bd.pdf](http://www.researchgate.net/profile/Yang_Bian/publication/261171379_Patterns_of_simple_sequence_repeats_in_cultivated_blueberries_(Vaccinium_sectionCyanococcus_spp.)_and_their_use_in_revealing_genetic_diversity_and_population_structure._Mol._Breeding/links/5422c1af0cf238c6ea6bf7bd.pdf)

Amplification Biases and Consistent Recovery of Loci in a Double-Digest RAD-seq Protocol.

Jeffrey M. DaCosta, Michael D. Sorenson

PLoS ONE, 4 September 2014; 9(9): e106713, 14 pp.

<http://www.plosone.org/article/fetchObject.action?uri=info:doi/10.1371/journal.pone.0106713&representation=PDF>

Sequence assembly.

Inventors: Gregory Porreca, and Caleb Kennedy.

US Patent Application: 2014/0255931 A1, Publication Date: 11 September 2014;

<https://www.google.com/patents/US20140255931>

Hierarchical assembly of optical maps

Inventor: Deacon John Sweeney

US Patent Application: 2014/0272948 A1, Publication Date: 18 September 2014;

<http://www.google.com/patents/US20140272948>

Generating cell-free DNA libraries directly from blood.

Inventors: Anupama Srinivasan, and Richard P. Rava.

U.S. Patent Application: 2014/0274740 A1, Publication Date: 18 September 2014;

<https://www.google.com/patents/US20140274740>

Method for detecting micro-deletion and micro-repetition of chromosome

Inventors: Fang Chen, Xiaoyu Pan, Shengpei Chen, Xuchao Li, Hui Jiang, and Xiuqing Zhang.

US Patent Application: 2014/0274745 A1, Publication Date: 18 September 2014;

<https://www.google.com/patents/US20140274745>

Sequence assembly using optical maps.

Inventor: Deacon John Sweeney

US Patent Application: 2014/0274750 A1, Publication Date: 18 September 2014;
<http://www.google.com/patents/US20140274750>

Methods and systems for storing sequence read data

Inventors: Caleb J. Kennedy, Niru Chennagiri
United States Patent: 8847799 B1, Publication Date: 30 September 2014.
<http://www.google.com/patents/US8847799>

Screening and Characterization of a Novel Cellulase Gene from the Gut Microflora of *Hermetia illucens* Using Metagenomic Library.

Chang-Muk Lee, Young-Seok Lee, So-Hyeon Seo, Sang-Hong Yoon, Soo-Jin Kim, Bum-Soo Hahn, Joon-Soo Sim, Bon-Sung Koo
Journal of Microbiology and Biotechnology, September 2014; 24(9): 1196-1206.
<http://www.jmb.or.kr/journal/viewJournal.html?doi=10.4014/jmb.1405.05001>

Transcriptome analysis elucidates key developmental components of bryozoan lophophore development

Yue Him Wong, Taewoo Ryu, Loqmane Seridi, Yanal Ghosheh, Salim Bougouffa, Pei-Yuan Qian and Timothy Ravasi
Scientific Reports, 10 October 2014; 4: 6534, 10 pp.
<http://www.nature.com/srep/2014/141010/srep06534/full/srep06534.html#close>

Methods for analyzing nucleic acids.

Inventor: Mark Umbarger
U.S. Patent Application: 2014/0308667 A1, Publication Date: 16 October 2014;
<https://www.google.com/patents/US20140308667>

Requirements for *Pseudomonas aeruginosa* Acute Burn and Chronic Surgical Wound Infection.

Keith H. Turner, Jake Everett, Urvish Trivedi, Kendra P. Rumbaugh, Marvin Whiteley
PLoS Genetics, 24 July 2014; 10(7): e1004518, 12 pp.
Correction: *PLoS Genetics*, 17 October 2014; 10(10): e1004743
<http://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1004518>

Microorganisms having enhanced resistance to acetate and methods of use.

Inventors: Steven D. Brown, and Shihui Yang.
United States Patent: 8865440 B2, Publication Date: 21 October 2014.
<https://www.google.com/patents/US8865440>

Variant database

Inventors: Marcia M. Nizzari, Benjamin H. Breton, David L. Tefft, Xavier S. Haurie
U.S. Patent Application: 2014/0324869 A1, Publication Date: 30 October 2014;
<http://www.freepatentsonline.com/y2014/0324869.html>

***Escherichia coli* Genes and Pathways Involved in Surviving Extreme Exposure to Ionizing Radiation**

Rose T. Byrne, Stefanie H. Chen, Elizabeth A. Wood, Eric L. Cabot and Michael M. Cox
Journal Bacteriology, October 2014; 196(20): 3534-3545
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4187691/>

[Seeking the source of *Pseudomonas aeruginosa* infections in a recently opened hospital: an observational study using whole-genome sequencing](#)

Joshua Quick, Nicola Cumley, Christopher M. Wearn, Marc Niebel, Chrystala Constantinidou, Chris M. Thomas, Mark J. Pallen, Naiem S Moiemmen, Amy Bamford, Beryl Oppenheim, Nicholas J Loman
BMJ Open, 4 November 2014; 4(11): e006278, 10 pp.
<http://bmjopen.bmj.com/content/4/11/e006278.full>

[Methods for indexing samples and sequencing multiple polynucleotide templates.](#)

Inventors: Helen Bignell, Louise Fraser, and Niall Anthony Gormley.
U.S. Patent Application: 2014/0329698 A1, Publication Date: 6 November 2014
<http://www.freepatentsonline.com/y2014/0329698.html>

[The Genome of the Myxosporean *Thelohanellus kitauei* Shows Adaptations to Nutrient Acquisition within Its Fish Host.](#)

Yalin Yang, Jie Xiong, Zhigang Zhou, Fengmin Huo, Wei Miao, Chao Ran, Yuchun Liu, Jinyong Zhang, Jinmei Feng, Meng Wang, Min Wang, Lei Wang and Bin Yao
Genome Biology and Evolution, 8 November 2014; 6(12): 3182-3198.
<http://gbe.oxfordjournals.org/content/6/12/3182.full.pdf+html>

[Method and system for determining whether genome is abnormal.](#)

Inventors: Yong Qiu, Lifu Liu, Hui Jiang, Fang Chen, Chunlei Zhang, Jian Wang, Jun Wang, Huanming Yang, Xiuqing Zhang
U.S. Patent Application: 2014/0336075 A1, Publication Date: 13 November 2014
<http://www.freepatentsonline.com/y2014/0336075.html>

[Sequences of *Brachyspira*, immunogenic compositions, methods for preparation & use thereof.](#)

Inventors: David J. Hampson, Tom La, Matthew I. Bellgard, and Nyree D. Phillips.
United States Patent: 8895021 B2, Publication Date: 25 November 2014;
<https://www.google.com/patents/US8895021>

[The chloroplast view of the evolution of polyploid wheat.](#)

Piotr Gornicki, Huilan Zhu, Junwei Wang, Ghana S. Challa, Zhengzhi Zhang, Bikram S. Gill, and Wanlong Li.
New Phytologist, November 2014; 204(3): 704-714.
<http://onlinelibrary.wiley.com/doi/10.1111/nph.12931/full>

[Genetic Manipulation of the *Toxoplasma gondii* Genome by Fosmid Recombineering.](#)

Sumiti Vinayak, Carrie F. Brooks, Anatoli Naumov, Elena S. Suvorova, Michael W. White, Boris Striepen
mBio, 2 December 2014; 5(6): e02021, 13 pp.
<http://mbio.asm.org/content/5/6/e02021-14.full>

[Genomic resources for the endangered Hawaiian honeycreepers](#)

Taylor Callicrate, Rebecca Dikow, James W Thomas, James C Mullikin, Erich D Jarvis, Robert C Fleischer and NISC Comparative Sequencing Program
BMC Genomics, 12 December 2014; 15:1098, 13 pp

<http://www.biomedcentral.com/1471-2164/15/1098>

Two Antarctic penguin genomes reveal insights into their evolutionary history and molecular changes related to the Antarctic environment.

Cai Li, Yong Zhang, Jianwen Li, Lesheng Kong, Haofu Hu, Hailin Pan, Luohao Xu, Yuan Deng, Qiye Li, Lijun Jin, Hao Yu, Yan Chen, Binghang Liu, Linfeng Yang, Shiping Liu, Yan Zhang, Yongshan Lang, Jinquan Xia, Weiming He, Qiong Shi, Sankar Subramanian, Craig D Millar, Stephen Meader, Chris M Rands, Matthew K Fujita, Matthew J Greenwold, Todd A Castoe, David D Pollock, Wanjun Gu, Kiwoong Nam, Hans Ellegren, Simon YW Ho, David W Burt, Chris P Ponting, Erich D Jarvis, M Thomas P Gilbert, Huanming Yang, Jian Wang, David M Lambert, Jun Wang and Guojie Zhang

GigaScience, 12 December 2014; 3:27, 15 pp

<http://www.gigasciencejournal.com/content/pdf/2047-217X-3-27.pdf>

Non-contiguous finished genome sequence and description of *Oceanobacillus massiliensis* sp. nov.

Veronique Roux, Matthieu Million, Catherine Robert, Alix Magne, and Didier Raoult.

Standards in Genomic Sciences, 15 December 2014; 9(2): 370-384.

<http://sigen.org/index.php/sigen/article/view/sigs.4267953/970>

Transposable element islands facilitate adaptation to novel environments in an invasive species.

Lukas Schrader, Jay W. Kim, Daniel Ence, Aleksey Zimin, Antonia Klein, Katharina Wychetzki, Tobias Weichselgartner, Carsten Kemena, Johannes Stökl, Eva Schultner, Yannick Wurm, Christopher D. Smith, Mark Yandell, Jürgen Heinze, Jürgen Gadau, Jan Oettler

Nature Communications, 16 December 2014; 5: 5495, 10 pp.

<http://www.nature.com/ncomms/2014/141216/ncomms6495/full/ncomms6495.html>

Method for detecting genetic variation.

Inventors: Shengpei Chen, Chunlei Zhang, Fang Chen, Weiwei Xie, Xiaoyu Pan, Jian Wang, Jun Wang, Huanming Yang, Xiuqing Zhang

U.S. Patent Application: 2014/0370504 A1, Publication Date: 18 December 2014;

<http://www.freepatentsonline.com/y2014/0370504.html>

Method for determining copy number variations in sex chromosomes

Inventor: Diana Abdueva

U.S. Patent Application: 20140371078 A1, Publication Date: 18 December 2014;

<http://www.freepatentsonline.com/y2014/0371078.html>

The Genome of the Myxosporean *Thelohanellus kitauei* Shows Adaptations to Nutrient Acquisition within Its Fish Host.

Yalin Yang , Jie Xiong , Zhigang Zhou , Fengmin Huo, Wei Miao, Chao Ran, Yuchun Liu, Jinyong Zhang, Jinmei Feng, Meng Wang, Min Wang, Lei Wang and Bin Yao

Genome Biology and Evolution, December 2014; 6(12): 3182-3198

<http://gbe.oxfordjournals.org/content/6/12/3182.full.pdf+html>

Draft Sequencing and Analysis of the Genome of Pufferfish *Takifugu flavidus*

Yang Gao, Qiang Gao, Huan Zhang, Lingling Wang, Fuchong Zhang, Chuanyan Yang, Linsheng Song

DNA Research, December 2014; 21 (6): 627-637
<http://dnaresearch.oxfordjournals.org/content/21/6/627.full>

Assessment of droplet digital PCR for absolute quantification of genetically engineered OXY235 canola and DP305423 soybean samples

Tigst Demeke, Tom Gräfenhan, Michelle Holigroski, Ursula Fernando, Janice Bamforth, Sung-Jong Lee

Food Control, December 2014; 46: 470-474 (HS+)

https://www.researchgate.net/profile/Ursula_Fernando2/publication/274020874_Assessment_of_droplet_digital_PCR_for_absolute_quantification_of_genetically_engineered_OXY235_canola_and_DP305423_soybean_samples/links/555ba72708ae6aea0816c967.pdf

全基因组扩增技术原理及研究进展. 潘孝明, and 梁兴国. 生物技术通报 12 (2014): 009 (Advances in technology principle and whole genome amplification)

Pan Xiaoming Liang Xingguo

Biotechnology Bulletin, December 2014; 2014(12): 47-54)

Multiple Long Mate Pair Approaches to Facilitate Short read based de novo Genome Assembly.

Julianna Chow, Jaya Rajamani, James Han, Alicia Clum, Alex Copeland, Shweta Deshpande and Chia-Lin Wei

JGI Scientific Poster, 2014 (Conference: Sequencing, Finishing and Analysis in the Future, 2012)

Rapport d'Activite 2013.

Pierre-Edouard Fournier, Didier Raoult, and Hervé Richet.

Communications, 2014; 105 pp.

http://www.mediterranee-infection.com/arkotheque/client/ihumed/_depot_arko/articles/450/rapport-cnr-rick-cox-barto-2013_doc.pdf

2013.

Biopolymer sequencing by hybridization of probes to form ternary complexes and variable range alignment.

Inventors: John Oliver, Barrett Bready, Peter Goldstein, Franco Preparata

US Patent Application: 2013/0011934 A1, Publication Date: 10 January 2013

<http://www.freepatentsonline.com/y2013/0017204.html>

DNA encoding polypeptide involved in biosynthesis of herboxidiene

Inventors: Kazuhiro Machida, Kaoru Okayama, Masashi Itoh, Asako Toyoda

European Patent Application: EP 2546345 A1; Publication Date: 16 January 2013

<http://www.freepatentsonline.com/EP2546345A1.html>

Genes of an Otitis Media Isolate of Nontypeable *Haemophilus Influenzae*.

Inventors: Lauren O. Bakaletz, Robert S. Munson Jr., David W. Dyer

US Patent Application: 2013/0017204 A1, Publication Date: 17 January 2013

<http://www.freepatentsonline.com/y2013/0078254.html>

Gene copy-number polymorphism caused by retrotransposition in humans.

Daniel R. Schrider, Fabio CP Navarro, Pedro AF Galante, Raphael B. Parmigiani, Anamaria A. Camargo, Matthew W. Hahn, and Sandro J. de Souza.

PLoS Genetics, 24 January 2013; 9(1): e1003242, 13 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3554589/>

Methods for Detection of Methyl-CpG Dinucleotides.

Inventor: John J. Dunn

United States Patent: US 8361746 B2, Publication Date: 29 January 2013.

<https://www.google.com/patents/US8361746>

Methods and compositions for determining methylation profiles.

Inventors: Robert Martienssen, Eric J. Richards, Zachary Lippmann, Vincent Colot

Canadian Patent: CA 2489360 C; Publication Date: 29 January 2013.

<http://www.google.com/patents/CA2489360C>

Comparative analysis of tandem repeats from hundreds of species reveals unique insights into centromere evolution.

Daniël P. Melters, Keith R. Bradnam, Hugh A. Young, Natalie Telis, Michael R. May, J. Graham Ruby, Robert Sebra, Paul Peluso, John Eid, David Rank, José Fernando Garcia, Joseph L DeRisi, Timothy Smith, Christian Tobias, Jeffrey Ross-Ibarra, Ian Korf and Simon WL Chan

Genome Biology, 30 January 2013; 14(1): R10, 20 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4053949/>

Detecting and classifying copy number variation.

Inventors: Richard P. Rava, Brian K. Rhees

US Patent Application: 2013/0029852 A1, Publication Date: 31 January 2013

<http://www.freepatentsonline.com/y2013/0029852.html>

Analyzing Copy Number Variation in the Detection of Cancer.

Inventors: Richard P. Rava, Brian K. Rhees

US Patent Application: 2013/0034546 2 A1; Publication Date: 31 January 2013

<http://www.freepatentsonline.com/y2013/0034546.html>

Complete nucleotide sequence of pHN7A8, an F33: A-: B-type epidemic plasmid carrying blaCTX-M-65, fosA3 and rmtB from China.

Liangying He, Sally R. Partridge, Xiaoyun Yang, Jianxia Hou, Yuting Deng, Qiongfeng Yao, Zhenling Zeng, Zhangliu Chen, and Jian-Hua Liu.

Journal of Antimicrobial Chemotherapy, January 2013; 68(1): 46-50.

<http://jac.oxfordjournals.org/content/68/1/46.long>

Fine-Scale Mapping of the *Nasonia* Genome to Chromosomes Using a High-Density Genotyping Microarray.

Christopher A. Desjardins, Jürgen Gadau, Jacqueline A. Lopez, Oliver Niehuis, Amanda R. Avery, David W. Loehlin, Stephen Richards, John K. Colbourne, and John H. Werren..

G3: Genes, Genomes, Genetics, 1 February 2013; 3(2): 205-215.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3564981/>

Genômica comparativa de *Xylella fastidiosa*: diversidade do pangenoma e análise de genes de patogenicidade.

Wesley Oliveira de Santana

PhD Theses, 4 February 2013; Universidade de São Paulo

<http://www.teses.usp.br/teses/disponiveis/46/46131/tde-10062013-105859/en.php>

Analyzing Copy Number Variation in the Detection of Cancer.

Inventors: Richard P. Rava, and Brian K. Rhees.

US Patent Application: 2013/0034546 A1, Publication Date: 7 February 2013;

<https://www.google.com/patents/US20130034546>

Soil oligotrophic bacterium *Agromonas oligotrophica* (*Bradyrhizobium oligotrophicum*) is a nitrogen-fixing symbiont of *Aeschynomene indica* as suggested by genome analysis.

Takashi Okubo, Shohei Fukushima, Manabu Itakura, Kenshiro Oshima, Aphakorn Longtonglang, Neung Teaumroong, Hisayuki Mitsui, Masahira Hattori, Reiko Hattori, Tsutomu Hattori, and Kiwamu Minamisawa

Applied and Environmental Microbiology, 8 February 2013; AEM-00009, 30 pp.

<http://aem.asm.org/content/early/2013/02/04/AEM.00009-13.full.pdf>

Methods for Detection of Methyl-CpG Dinucleotides.

Inventor: John J. Dunn

US Patent Application: US 2013/0040343 A1; Publication Date: 14 February 2013.

<http://www.freepatentsonline.com/y2013/0040343.html>

Metagenome-derived alkaline phosphatase.

Inventors: Seung Goo Lee, Su Lim Choi, Eugene Rha, Jae Jun Song,

US Patent Application: 2013/0040366 A1; Publication Date: 14 February 2013

<http://www.freepatentsonline.com/y2013/0040366.html>

Non contiguous-finished genome sequence and description of *Peptoniphilus senegalensis* sp. nov.

Ajay Kumar Mishra, Jean-Christophe Lagier, Thi-Tien Nguyen, Didier Raoult, and Pierre-Edouard Fournier.

Standards in Genomic Sciences, 22 February 2013; 7(3): 370-381.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3764932/>

Non contiguous-finished genome sequence and description of *Enterobacter massiliensis* sp. nov.

Jean-Christophe Lagier, Khalid El Karkouri, Ajay Kumar Mishra, Catherine Robert, Didier Raoult, and Pierre-Edouard Fournier.

Standards in Genomic Sciences, 22 February 2013; 7(3): 399-412

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3764934/>

Non contiguous-finished genome sequence and description of *Senegalemassilia anaerobia* gen. nov., sp. nov.

Jean-Christophe Lagier, Khalid Elkarkouri, Romain Rivet, Carine Couderc, Didier Raoult, and Pierre-Edouard Fournier.

Standards in Genomic Sciences, 25 February 2013; 7(3): 343-356.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3764928/>

[Non-contiguous finished genome sequence and description of *Peptoniphilus obesi* sp. nov.](#)

Ajay Kumar Mishra, Perrine Hugon, Jean-Christophe Lagier, Thi-Thien Nguyen, Catherine Robert, Carine Couderc, Didier Raoult, and Pierre-Edouard Fournier.

Standards in Genomic Sciences, 25 February 2013; 7(3): 357-369.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3764929/>

[Non-contiguous finished genome sequence and description of *Alistipes obesi* sp. nov.](#)

Perrine Hugon, Dhamodharan Ramasamy, Jean-Christophe Lagier, Romain Rivet, Carine Couderc, Didier Raoult, and Pierre-Edouard Fournier.

Standards in Genomic Sciences, 25 February 2013; 7(3): 427-439.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3764931/>

[Intermittent detection during analytical reactions.](#)

Inventors: Kenneth Mark Maxham, Jon Sorenson, John Eid, Patrick Marks, Kevin Travers, Donald Gray, Robin Emig, Mark Chaisson, Benjamin Flusberg,

United States Patent: US 8383369 B2, Publication Date: 26 February 2013

<http://www.google.com/patents/US8383369>

[Sequencing library, preparation method thereof, and terminal sequencing method and device](#)

Inventors: Changlei Han, Xun Xu, 韩长磊, 徐讯

Chinese Patent: CN 101967684 B, Publication Date: 27 February 2013.

[Plant-symbiotic fungi as chemical engineers: multi-genome analysis of the Clavicipitaceae reveals dynamics of alkaloid loci.](#)

Christopher L. Schardl, Carolyn A. Young, Uljana Hesse, Stefan G. Amyotte, Kalina Andreeva, Patrick J. Calie, Damien J. Fleetwood, David C. Haws, Neil Moore, Birgitt Oese, Daniel G. Panaccione, Kathryn K. Schweri, Christine R. Voisey, Mark L. Farman, Jerzy W. Jaromczyk, Bruce A. Roe, Donal M. O'Sullivan, Barry Scott, Paul Tudzynski, Zhiqiang An, Elissaveta G. Arnaoudova, Charles T. Bullock, Nikki D. Charlton, Li Chen, Murray Cox, Randy D. Dinkins, Simona Florea, Anthony E. Glenn, Anna Gordon, Ulrich Gu'dener, Daniel R. Harris, Walter Hollin, Jolanta Jaromczyk, Richard D. Johnson, Anar K. Khan, Eckhard Leistner, Adrian Leuchtmann, Chunjie Li, JinGe Liu, Jinze Liu, Miao Liu, Wade Mace, Caroline Machado, Padmaja Nagabhyru, Juan Pan, Jan Schmid, Koya Sugawara, Ulrike Steiner, Johanna E. Takach, Eiji Tanaka, Jennifer S. Webb, Ella V. Wilson, Jennifer L. Wiseman, Ruriko Yoshida, Zheng Zeng

PLoS Genetics, 28 February 2013; 9(2): e1003323, 26 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3585121/>

[Positional cloning of a candidate gene for resistance to the sunflower downy mildew, *Plasmopara halstedii* race 300.](#)

Jérôme Franchel, Mohamed Fouad Bouzidi, Gisèle Bronner, Felicity Vear, Paul Nicolas, and Said Mouzeyar.

Theoretical and Applied Genetics, February 2013; 126(2): 359-367.

[The rhizome of the multidrug-resistant *Enterobacter aerogenes* genome reveals how new “killer bugs” are created because of a sympatric lifestyle.](#)

Seydina M. Diene, Vicky Merhej, Mireille Henry, Adil El Filali, Véronique Roux, Catherine Robert, Saïd Azza, Frederick Gavory, Valérie Barbe, Bernard La Scola, Didier Raoult, Jean-Marc Rolain.

Molecular Biology and Evolution, February 2013; 30(2): 369-383.

<http://mbe.oxfordjournals.org/content/30/2/369.long>

The dynamics of LTR retrotransposon accumulation across 25 million years of panicoid grass evolution.

M. C. Estep, J. D. DeBarry, and J. L. Bennetzen.

Heredity, February 2013; 110(2): 194-204.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3554455/>

Fine-scale mapping of the Nasonia genome to chromosomes using a high-density genotyping microarray.

Christopher A. Desjardins, Jürgen Gadau, Jacqueline A. Lopez, Oliver Niehuis, Amanda R. Avery, David W. Loehlin, Stephen Richards, John K. Colbourne, and John H. Werren.

G3: Genes Genomes Genetics, February 2013; 3(2): 205-215.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3564981/>

Gene rearrangements in hormone receptor negative breast cancers revealed by mate pair sequencing.

Xiang Jiao, Sean D Hooper, Tatjana Djureinovic, Chatarina Larsson, Fredrik Wärnberg, Christian Tellgren-Roth, Johan Botling, and Tobias Sjöblom

BMC Genomics, 12 March 2013; 14: 165, 11 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3600027/>

Use of stem-loop oligonucleotides in the preparation of nucleic acid molecules.

Inventors: Vladimir L. Makarov, Emmanuel Kamberov, Brendan J. Tarrier

United States Patent: 8399199 B2, Publication Date: 19 March 2013;

<http://www.freepatentsonline.com/8399199.html>

Genomic Analysis by Deep Sequencing of the Probiotic *Lactobacillus brevis* KB290 Harboring Nine Plasmids Reveals Genomic Stability.

Masanori Fukao, Kenshiro Oshima, Hidetoshi Morita, Hidehiro Toh, Wataru Suda, Seok-Won Kim, Shigenori Suzuki, Takafumi Yakabe, Masahira Hattori, and Nobuhiro Yajima.

PLoS One, 27 March 2013; 8(3): e60521, 10 pp.

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0060521>

Genes of an otitis media isolate of nontypeable haemophilus influenzae.

Inventors: Lauren O. Bakaletz, Robert S. Munson, Jr., David W. Dyer

US Patent Application: 2013/0078254 A1, Publication Date: 28 March 2013;

<http://www.google.com/patents/US20130078254>

Microorganisms having enhanced resistance to acetate and related compositions and methods of use.

Inventors: Steven D. Brown, Shihui Yang

US Patent Application: 2013/0078691 A1, Publication Date: 28 March 2013;

<http://www.freepatentsonline.com/y2013/0078691.html>

Methods for obtaining a sequence.

Inventors: Dmitry Pushkarev, Stephen R. Quake, Ayelet Voskoboynik, and Michael Kertesz.

U.S. Patent Application: 2013/0079231 A1, Publication Date: 28 March 2013;

<https://www.google.com/patents/US20130079231>

[Use of a Novel *Escherichia coli*-*Leuconostoc* Shuttle Vector for Metabolic Engineering of *Leuconostoc citreum* to Overproduce D-Lactate.](#)

Han Seung Chae, Seung Hwan Lee, Ju-Hoon Lee, Si Jae Park, and Pyung Cheon Lee.
Applied and Environmental Microbiology, March 2013; 79(5): 1428-1435.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3591954/>

[Identificação e sequenciamento de genes envolvidos na biossíntese de microcistinas e saxitoxinas na cianobactéria *Microcystis aeruginosa* SPC777](#)

Elaine Crespim
PhD Theses, 4 April 2013; Universidade de São Paulo, Brasil, 139 pp.
<http://www.teses.usp.br/teses/disponiveis/64/64133/tde-22052013-112756/en.php>

[Methods for separating nucleic acids by size.](#)

Inventors: Roland Fabis, Nadine Krüger, Jan Petzel
PCT Patent Application: WO 2013/045434 A1, Publication Date: 4 April 2013

[Substantially non-self complementary primers.](#)

Inventors: Emmanuel Kamberov, Tong Sun, Eric Bruening, Jonathon H. Pinter, Irina Sleptsova, Takao Kurihara, Vladimir L. Makarov
US Patent Application: 2013/0085083 A1, Publication Date: 4 April 2013
<http://www.freepatentsonline.com/y2013/0085083.html>

[Revising a Personal Genome by Comparing and Combining Data from Two Different Sequencing Platforms.](#)

Deokhoon Kim, Woo-Yeon Kim, Sun-Young Lee, Sung-Yeoun Lee, Hongseok Yun, Soo-Yong Shin, Jungyoun Lee, Yoojin Hong, Youngmi Won, Seong-Jin Kim, Yong Seok Lee, Sung-Min Ahn
PLoS ONE, 8 April 2013; 8(4): e60585, 7 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3620462/>

[Assembly of a Marine Viral Metagenome after Physical Fractionation.](#)

Jennifer R. Brum, Alexander I. Culley, and Grieg F. Steward.
PLoS One, 8 April 2013; 8(4): e60604, 10 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3620275/>

[Non-contiguous finished genome sequence and description of *Brevibacillus massiliensis* sp. nov.](#)

Perrine Hugon, Ajay Kumar Mishra, Jean-Christophe Lagier, Thi Thien Nguyen, Carine Couderc, Didier Raoult, and Pierre-Edouard Fournier.
Standards in Genomic Sciences, 15 April 2013; 8(1): 1-14.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3739172/>

[Improving mammalian genome scaffolding using large insert mate-pair next-generation sequencing.](#)

Sebastian van Heesch, Wigard P Kloosterman, Nico Lansu, Frans-Paul Ruzius, Elizabeth Levandowsky, Clarence C Lee, Shiguo Zhou, Steve Goldstein, David C Schwartz, Timothy T Harkins, Victor Guryev and Edwin Cuppen
BMC Genomics, 16 April 2013; 14: 257, 11 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3648348/>

[Apparatus and method for using ultrasonic radiation for controlled fragmentation of chains of nucleic acids.](#)

Inventors: Vibhu Vivek; Babur Hadimioglu, Smriti Sharma, Kapil Dev
US Patent Application: 2013/0092524 A1, Publication Date: 18 April 2013
<http://www.freepatentsonline.com/20130092524.pdf>

[Detecting and classifying copy number variation.](#)

Inventors: Richard P. Rava, Anupama Srinivasan
US Patent Application: 2013/0096011 A1, Publication Date: 18 April 2013
<http://www.freepatentsonline.com/y2013/0096011.html>

[Recurrent gene fusions in breast cancer.](#)

Inventors: Arul M. Chinnaiyan, Chandan Kumar-sinha, Dan Robinson, Shanker Kalyana-Sundaram
US Patent Application: 2013/0096021 A1, Publication Date: 18 April 2013;
<http://www.freepatentsonline.com/y2013/0096021.html>

[Apparatus and method for using ultrasonic radiation for controlled fragmentation of chains of nucleic acids.](#)

Inventors: Vibhu Vivek, Babur Hadimioglu, Smriti Sharma, Kapil Dev
PCT Patent Application: WO 2013/056062 A1, Publication Date: 18 April 2013;
<http://www.google.com/patents/WO2013056062A1>

[Genome-wide transcriptional responses of two metal-tolerant symbiotic *Mesorhizobium* isolates to Zinc and Cadmium exposure.](#)

Géraldine Maynaud, Brigitte Brunel, Damien Mornico, Maxime Durot, Dany Severac, Emeric Dubois, Elisabeth Navarro, Jean-Claude Cleyet-Marel, and Antoine Le Quéré
BMC Genomics, 30 April 2013; 14(1): 292, 24 pp.
<http://www.biomedcentral.com/content/pdf/1471-2164-14-292.pdf>

[The Hypomethylated Partial Restriction \(HMPCR\) method reduces the repetitive content of genomic libraries in Norway spruce \(*Picea abies*\).](#)

Hanna Larsson, Emanuele De Paoli, Michele Morgante, Martin Lascoux, Niclas Gyllenstrand
Tree Genetics & Genomes, April 2013; 9(2): 601-612

[Genome Analysis Suggests that the Soil Oligotrophic Bacterium *Agromonas oligotrophica* \(*Bradyrhizobium oligotrophicum*\) Is a Nitrogen-Fixing Symbiont of *Aeschynomene indica*.](#)

Takashi Okubo, Shohei Fukushima, Manabu Itakura, Kenshiro Oshima, Aphakorn Longtonglang, Neung Teaumroong, Hisayuki Mitsui, Masahira Hattori, Reiko Hattori, Tsutomu Hattori and Kiwamu Minamisawa
Applied and Environmental Microbiology, April 2013; 79(8): 2542-2551
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3623176/>

[Non-contiguous finished genome sequence and description of *Senegalemassilia anaerobia* gen. nov., sp. nov.](#)

Jean-Christophe Lagier, Khalid El Karkouri, Romain Rivet, Carine Couderc, Didier Raoult, Pierre-Edouard Fournier
Standards in Genomic Sciences, April 2013; 7(3): 343-356

[Non-contiguous finished genome sequence and description of *Peptoniphilus obesi* sp. nov.](#)

Ajay Kumar Mishra, Perrine Hugon, Thi-Thi Nguyen, Catherine Robert, Carine Couderc, Didier Raoult, Pierre-Edouard Fournier
Standards in Genomic Sciences, April 2013; 7(3): 357-369

[Non-contiguous finished genome sequence & description of *Peptoniphilus senegalensis* sp. nov.](#)

Ajay Kumar Mishra, Jean-Christophe Lagier, Thi-Tien Nguyen, Didier Raoult, Pierre-Edouard Fournier
Standards in Genomic Sciences, April 2013; 7(3): 370-381

[Non-contiguous finished genome sequence & description of *Enterobaceter massiliensis* sp. nov.](#)

Jean-Christophe Lagier, Khalid El Karkouri, Ajay Kumar Mishra, Catherine Robert, Didier Raoult, and Pierre-Edouard Fournier.
Standards in Genomic Sciences, April 2013; 7(3): 399-412

[Non-contiguous finished genome sequence and description of *Alistipes obesi* sp. nov.](#)

Perrine Hugon, Dhamodharan Ramasamy, Romain Rivet, Didier Raoult, Pierre-Edouard Fournier
Standards in Genomic Sciences, April 2013; 7(3): 427-439

[Genome Analysis Suggests that the Soil Oligotrophic Bacterium *Agromonas oligotrophica* \(*Bradyrhizobium oligotrophicum*\) Is a Nitrogen-Fixing Symbiont of *Aeschynomene indica*.](#)

Takashi Okubo, Shohei Fukushima, Manabu Itakura, Kenshiro Oshima, Aphakorn Longtonglang, Neung Teaumroong, Hisayuki Mitsui, Masahira Hattori, Reiko Hattori, Tsutomu Hattori, and Kiwamu Minamisawa

Applied and Environmental Microbiology, April 2013; 79(8): 2542-2551.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3623176/>

[The draft genome and transcriptome of *Panagrellus redivivus* are shaped by the harsh demands of a free-living lifestyle.](#)

Jagan Srinivasan, Adler R. Dillman, Marissa G. Macchietto, Liisa Heikkinen, Merja Lakso, Kelley M. Fracchia, Igor Antoshechkin, Ali Mortazavi, Garry Wong, and Paul W. Sternberg.

Genetics, April 2013; 193(4): 1279-1295.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3606103/>

[Non-contiguous finished genome sequence and description of *Brevibacillus massiliensis* sp. nov.](#)

Perrine Hugon, Ajay Kumar Mishra, Thi-Tien Nguyen, Didier Raoult, Pierre-Edouard Fournier
Standards in Genomic Sciences, April 2013; 8(1): 1-14.

[The Hypomethylated Partial Restriction \(HMPCR\) method reduces the repetitive content of genomic libraries in Norway spruce \(*Picea abies*\).](#)

Hanna Larsson, Emanuele De Paoli, Michele Morgante, Martin Lascoux, and Niclas Gyllenstrand.
Tree Genetics & Genomes, April 2013; 9(2): 601-612.

[Methods for detecting mutations.](#)

Inventors: Anthony P. Shuber, Cecilia Fernandez

US Patent Application: 2013/0109576 A1; Publication Date: 2 May 2013;

<http://www.freepatentsonline.com/y2013/0109576.html>

[A multi-platform draft *de novo* genome assembly and comparative analysis for the Scarlet Macaw \(*Ara macao*\).](#)

Christopher M. Seabury, Scot E Dowd, Paul M Seabury, Terje Raudsepp, Donald J Brightsmith, Poul Liboriussen, Yvette Halley, Colleen A. Fisher, Elaine Owens, Ganesh Viswanathan, Ian R. Tizard
PloS One, 8 May 2013; 8(5): e62415, 20 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3648530/>

[Methods and compositions for generating and amplifying DNA libraries for sensitive detection and analysis of DNA methylation.](#)

Inventors: Vladimir L. Makarov, Emmanuel Kamberov, Tong Sun, Jonathon H. Pinter, Brendan J. Tarrier, Eric E. Bruening, Takao Kurihara, Tim Tesmer, Joseph M'Mwirichia
United States Patent: US 8440404 B2, Publication Date: 14 May 2013
<http://www.google.com/patents/US8440404>

[Nucleic acids of *Pichia pastoris* and use thereof for recombinant production of proteins](#)

Inventors: Nico Callewaert, Kristof De Schutter, Petra Tiels, Yao-Cheng Lin
United States Patent: US 8440456 B2, Publication Date: 14 May 2013
<http://www.google.com/patents/US8440456>

[The genome of the mustard leaf beetle encodes two active xylanases originally acquired from bacteria through horizontal gene transfer.](#)

Yannick Pauchet, and David G. Heckel.
Proceedings Royal Society London, B: Biological Sci., 22 May 2013; 280(1763): 20131021, 7 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3774241/>

[Methods of enhancing biogenic production of methane from hydrocarbon-bearing formations.](#)

Inventors: Gerardo Vicente Toledo, Toby Howard Richardson, Ulrich Stingl, Eric J. Mathur, and J. Craig Venter.
United States Patent: US 8448702 B2, Publication Date: 28 May 2013;
<https://www.google.com/patents/US8448702>

[Methods for deep examination of DNA.](#)

Mårten Neiman
PhD Theses, 30 May 2013; Karolinska Institutet, Stockholm, Sweden, 111 pp.
<http://publications.ki.se/xmlui/handle/10616/41538>

[The plasmidome of a *Salmonella entericaserovar* Derby isolated from pork meat.](#)

Anne Bleicher, Gerhard Schöfl, Maria del Rosario Rodicio, and Hans Peter Saluz.
Plasmid, May 2013; 69(3): 202-210

[The genome of the mustard leaf beetle encodes two active xylanases originally acquired from bacteria through horizontal gene transfer.](#)

Yannick Pauchet, and David G. Heckel.
Proceedings of the Royal Society, ser. B, May 2013; 280: 20131021, 8 pp.

[Compositions and methods for nucleic acid sequencing.](#)

Inventors: Kevin Travers, Geoff Otto, Stephen Turner, Cheryl Heiner, Congcong Ma
United States Patent: US 8455193 B2, Publication Date: 4 June 2013
<http://www.google.com/patents/US8455193>

[Tagged-fragment map assembly.](#)

Inventors: Peter Goldstein, Franco Preparata, Eli Upfal

United States Patent: US 8455260 B2, Publication Date: 4 June 2013

<http://www.google.fr/patents/US8455260>

Methods and compositions for generating polynucleic acid fragments.

Inventors: Paolo Actis, Muhammad Akram Tariq, Hyunsung John Kim, Nader Pourmand

US Patent Application: US 2013/0143774 A1; Publication Date: 6 June 2013

<http://patents.com/us-20130143774.html>

Sequences of *Brachyspira*, immunogenic compounds, methods for preparation and use thereof.

Inventors: David J. Hampson, Tom La, Matthew I. Bellgard, Nyree D. Phillips

United States Patent: US 8460681 B2, Publication date: 11 June 2013

<http://www.google.com/patents/US8460681>

Non-contiguous finished genome sequence and description of *Bacillus massilosenegalensis* sp. nov.

Dhamodharan Ramasamy, Jean-Christophe Lagier, Aurore Gorlas, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 15 June 2013; 8(2): 264-278

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3746431/>

Non-contiguous finished genome sequence and description of *Bartonella senegalensis* sp. nov.

Oleg Mediannikov, Khalid El Karkouri, Georges Diatta, Catherine Robert, Pierre-Edouard Fournier, and Didier Raoult.

Standards in Genomic Sciences, 15 June 2013; 8(2): 279-289.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3746424/>

Non-contiguous finished genome sequence and description of *Enorma massiliensis* gen. nov., sp. nov., a new member of the Family *Coriobacteriaceae*

Ajay Kumar Mishra, Perrine Hugon, Jean-Christophe Lagier, Thi-Tien Nguyen, Carine Couderc, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 15 June 2013; 8(2): 290-305

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3746427/>

Genome sequence and description of *Timonella senegalensis* gen. nov., sp. nov., a new member of the suborder *Micrococcinae*.

Ajay Kumar Mishra, Jean-Christophe Lagier, Catherine Robert, Didier Raoult, and Pierre-Edouard Fournier.

Standards in Genomic Sciences, 15 June 2013; 8(2): 318-335.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3746429/>

Non contiguous-finished genome sequence and description of *Dielma fastidiosa* gen. nov., sp. nov., a new member of the Family *Erysipelotrichaceae*.

Dhamodharan Ramasamy, Jean-Christophe Lagier, Thi Tien Nguyen, Didier Raoult, and Pierre-Edouard Fournier.

Standards in Genomic Sciences, 15 June 2013; 8(2): 336-351.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3746426/>

Assembling the 20 Gb white spruce (*Picea glauca*) genome from whole-genome shotgun sequencing data.

Inanc Birol, Anthony Raymond, Shaun D. Jackman, Stephen Pleasance, Robin Coope, Greg A. Taylor, Macaire Man Saint Yuen, Christopher I. Keeling, Dana Brand, Benjamin P. Vandervalk, Heather Kirk, Pawan Pandoh, Richard A. Moore, Yongjun Zhao, Andrew J. Mungall, Barry Jaquish, Alvin Yanchuk, Carol Ritland, Brian Boyle, Jean Bousquet, Kermit Ritland, John MacKay, Jörg Bohlmann and Steven J.M. Jones

Bioinformatics, 15 June 2013; 29(12): 1492-1497.

<http://bioinformatics.oxfordjournals.org/content/early/2013/05/03/bioinformatics.btt178.long>

Methods for obtaining a sequence.

Inventors: Dmitry Pushkarev, Stephen R. Quake, Ayelet Voskoboynik, Michael Kertesz

US Patent Application: 2013/0157870 A1, Publication Date: 20 June 2013

http://www.lens.org/images/patent/US/20130157870/A1/US_2013_0157870_A1.pdf

Method for Sequencing a Polynucleotide Template.

Inventors: Eric Hans Vermaas, Graham John Worsley, Jonathan Mark Boutell, Colin Lloyd Barnes, Roberto Rigatti, Niall Anthony Gormley, Geoffrey Paul Smith, Vincent Peter Smith, Tobias William Barr Ost, David Bentley

US Patent Application: 2013/0165327 A1, Publication Date: 27 June 2013

<http://www.google.com/patents/US20130165327>

Chromosome painting *in silico* in a bacterial species reveals fine population structure.

Koji Yahara, Yoshikazu Furuta, Kenshiro Oshima, Masaru Yoshida, Takeshi Azuma, Masahira Hattori, Ikuo Uchiyama, and Ichizo Kobayashi.

Molecular Biology and Evolution, June 2013; 30(6): 1454-1464.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3649679/>

The genome sequence of the hydrocarbon degrading *Acinetobacter venetianus* VE-C3.

Marco Fondi, Ermanno Rizzi, Giovanni Emiliani, Valerio Orlandini, Luisa Berna, Maria Cristiana Papaleo, Elena Perrin, Isabel Maida, Giorgio Corti, Gianluca De Bellis, Franco Baldi, Lenie Dijkshoorn, Mario Vaneechoutte, Renato Fani

Research in Microbiology, June 2013; 164(5): 439-449.

<https://arca.unive.it/retrieve/handle/10278/37773/28283/FondietlaRESME.pdf>

The genome sequence of the colonial chordate, *Botryllus schlosseri*.

Ayelet Voskoboynik, Norma F. Neff, Debashis Sahoo, Aaron M. Newman, Dmitry Pushkarev, Winston Koh, Benedetto Passarelli H Christina Fan, Gary L Mantalas, Karla J Palmeri, Katherine J Ishizuka, Carmela Gissi, Francesca Griggio, Rachel Ben-Shlomo, Daniel M Corey, Lolita Penland, Richard A White, Irving L Weissman, Stephen R Quake

eLife, 2 July 2013; 2: e00569, 24 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3699833/>

The genome of the mustard leaf beetle encodes two active xylanases originally acquired from bacteria through horizontal gene transfer.

Yannick Pauchet and David G. Heckel.

Proceedings of the Royal Society B: Biological Sciences, 22 July 2013; 280(1763): 20131021, 7 pp.

<http://rspb.royalsocietypublishing.org/content/280/1763/20131021.long>

Non-contiguous finished genome sequence and description of *Kallipyga massiliae* gen. nov., sp. nov., a new member of the family *Clostridiales Incertae Sedis XI*.

Perrine Hugon, Dhamodharan Ramasamy, Catherine Robert, Carine Couderc, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 30 July 2013; 8(3): 500-515

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3910704/>

[Non-contiguous finished genome sequence and description of *Anaerococcus pacaensis* sp. nov., a new species of anaerobic bacterium.](#)

Isabelle Pagnier, Olivier Croce, Catherine Robert, Didier Raoult, Bernard La Scola

Standards in Genomic Sciences, 30 July 2013; 8(3): 548-560

[Whole-genome resequencing of Hanwoo \(Korean cattle\) and insight into regions of homozygosity.](#)

Kyung-Tai Lee, Won-Hyong Chung, Sung-Yeoun Lee, Jung-Woo Choi, Jiwoong Kim, Dajeong Lim, Seunghwan Lee, Gul-Won Jang, Bumsoo Kim, Yun Ho Choy, Xiaoping Liao, Paul Stothard, Stephen S Moore, Sang-Heon Lee, Sungmin Ahn, Namshin Kim and Tae-Hun Kim

BMC Genomics, 30 July 2013; 14(1): 519, 14 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3750754/pdf/1471-2164-14-519.pdf>

[Lateral gene transfer of family A DNA polymerases between thermophilic viruses, aquificae, and apicomplexa.](#)

Thomas W. Schoenfeld, Senthil K. Murugapiran, Jeremy A. Dodsworth, Sally Floyd, Michael Lodes, David A. Mead, and Brian P. Hedlund.

Molecular Biology and Evolution, July 2013; 30(7): 1653-1664.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3684859/>

[Fragmentation of Genomic DNA using Microwave Irradiation.](#)

Yu Yang, and Jun Hang.

Journal of Biomolecular Techniques, July 2013; 24(2): 98–103

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3671502/>

[Genome sequence of the date palm *Phoenix dactylifera* L](#)

Ibrahim S. Al-Mssallem, Songnian Hu, Xiaowei Zhang, Qiang Lin, Wanfei Liu, Jun Tan, Xiaoguang Yu Jiucheng Liu, Linlin Pan, Tongwu Zhang, Yuxin Yin, Chengqi Xin, Hao Wu, Guangyu Zhang, Mohammed M. Ba Abdullah, Dawei Huang, Yongjun Fang, Yasser O. Alnakhli, Shangang Jia, An Yin, Eman M. Alhuzimi, Burair A. Alsaihati, Saad A. Al-Owayyed, DuoJun Zhao, Sun Zhang, Noha A. Al-Otaibi, Gaoyuan Sun, Majed A. Majrashi, Fusen Li, Tala, Jixiang Wang, Quanzheng Yun, Nafila A. Alnassar, Lei Wang, Meng Yang, Rasha F. Al-Jelaify, Kan Liu, Shenghan Gao, Kaifu Chen, Samiyah R. Alkhaldi, Guiming Liu, Meng Zhang, Haiyan Guo, and Jun Yu

Nature Communications, 6 August 2013; 4: 2274, 9 pp.

<http://www.nature.com/ncomms/2013/130806/ncomms3274/full/ncomms3274.html>

[Malignant catarrhal fever in American bison \(*Bison bison*\) experimentally infected with alcelaphine herpesvirus 2.](#)

Naomi S. Taus, Donal O'Toole, David R. Herndon, Cristina W. Cunha, Janet V. Warg, Bruce S. Seal, Angela Brooking, and Hong Li.

Veterinary Microbiology, 6 August 2014; 172(1-2): 318-322.

[The genomic and transcriptomic landscape of a HeLa cell line.](#)

Jonathan JM Landry, Paul Theodor Pyl, Tobias Rausch, Thomas Zichner, Manu M. Tekkedil, Adrian M. Stütz, Anna Jauch, Raeka S. Aiyar, Gregoire Pau, Nicolas Delhomme, Julien Gagneur, Jan O. Korbel, Wolfgang Huber, Lars M. Steinmetz
G3: Genes, Genomes, Genetics, 7 August 2013; 3(8): 1213-1224.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3737162/>

Massively parallel contiguity mapping.

Inventors: Jay Ashok Shendure, Jerrod Joseph Schwartz, Andrew Colin Adey, Cho Li Lee, Joseph Brian Hiatt, Jacob Otto Kitzman, Akash Kumar
US Patent Application: US 2013/0203605 A1; Publication Date: 8 August 2013;
<http://www.google.com/patents/US20130203605>

Non-contiguous finished genome sequence and description of *Anaerococcus paccaensis* sp. nov., a new species of anaerobic bacterium.

Isabelle Pagnier, Olivier Croce, Catherine Robert, Didier Raoult, and Bernard La Scola.
Standards in Genomic Sciences, 10 August 2013; 8(3): 548-560.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3910703/>

Method of analyzing cellular chromosomes.

Inventors: Xiuqing Zhang, Zhaoling Xuan, Fang Chen, Fuman Jiang, Jingrong Lin, and Peipei Li.
US Patent Application: 2013/0210002 A1, Publication Date: 15 August 2013;
<https://www.google.com/patents/US20130210002>

DNA encoding polypeptide involved in biosynthesis of herboxidiene.

Inventors: Kazuhiro Machida, Kaoru Okayama, Masashi Itoh, Asako Toyoda
United States Patent: US 8512995 B2, Publication Date: 20 August 2013
<http://www.google.com/patents/US8512995>

Sequencing and characterization of Hox gene clusters in Japanese lamprey (*Lethenteron japonicum*).

Tarang Kumar Mehta
PhD Theses, 23 August 2013; National University of Singapore, 168 pp.
<http://scholarbank.nus.sg/bitstream/handle/10635/49638/MehtaTKM.pdf?sequence=1>

Fungi transformant for melanin production and uses thereof

Inventors: Min-Nan Tseng, Shean-Shong Tzean
United States Patent: US 8518393 B2, Publication Date: 27 August 2013
<http://www.google.com/patents/US8518393>

Recurrent somatic alterations of FGFR1 and NTRK2 in pilocytic astrocytoma.

David T W Jones, Barbara Hutter, Natalie Jäger, Andrey Korshunov, Marcel Kool, Hans-Jörg Warnatz, Thomas Zichner, Sally R Lambert, Marina Ryzhova, Dong Anh Khuong Quang, Adam M Fontebasso, Adrian M Stütz, Sonja Hutter, Marc Zuckermann, Dominik Sturm, Jan Gronych, Bärbel Lasitschka, Sabine Schmidt, Huriye Şeker-Cin, Hendrik Witt, Marc Sultan, Meryem Ralser, Paul A Northcott, Volker Hovestadt, Sebastian Bender, Elke Pfaff, Sebastian Stark, Damien Faury, Jeremy Schwartzenuber, Jacek Majewski, Ursula D Weber, Marc Zapatka, Benjamin Raeder, Matthias Schlesner, Catherine L Worth, Cynthia C Bartholomae, Christof von Kalle, Charles D Imbusch, Sylwester Radomski, Chris Lawrenz, Peter van Sluis, Jan Koster, Richard Volckmann, Rogier Versteeg, Hans Lehrach, Camelia Monoranu, Beate Winkler, Andreas Unterberg, Christel Herold-Mende, Till Milde, Andreas E Kulozik, Martin Ebinger, Martin U Schuhmann, Yoon-Jae Cho, Scott L

Pomeroy, Andreas von Deimling, Olaf Witt, Michael D Taylor, Stephan Wolf, Matthias A Karajannis, Charles G Eberhart, Wolfram Scheurlen, Martin Hasselblatt, Keith L Ligon, Mark W Kieran, Jan O Korbel, Marie-Laure Yaspo, Benedikt Brors, Jörg Felsberg, Guido Reifenger, V Peter Collins, Nada Jabado, Roland Eils, Peter Lichter, & Stefan M Pfister
Nature Genetics, August 2013; 45(8): 927–932
<http://www.nature.com/ng/journal/v45/n8/full/ng.2682.html>

Identification and characterization of a novel flagellum-dependent *Salmonella*-infecting bacteriophage, iEPS5.

Younho Choi, Hakdong Shin, Ju-Hoon Lee, and Sangryeol Ryu.
Applied and Environmental Microbiology, August 2013; 79(16): 4829-4837.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3754727/>

Sequencing and annotated analysis of the Holstein cow genome.

Sulev Kõks, Rutt Lilleoja, Ene Reimann, Andres Salumets, Paula Reemann, and Ülle Jaakma.
Mammalian Genome, August 2013; 24(7-8): 309-321.

The genomic and transcriptomic landscape of a HeLa cell line.

Jonathan JM Landry, Paul Theodor Pyl, Tobias Rausch, Thomas Zichner, Manu M. Tekkedil, Adrian M. Stütz, Anna Jauch, Raeka S. Aiyar, Gregoire Pau, Nicolas Delhomme, Julien Gagneur, Jan O. Korbel, Wolfgang Huber, and Lars M. Steinmetz
G3: Genes, Genomes, Genetics, August 2013; 3(8): 1213-1224.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3737162/pdf/1213.pdf>

Insights into the Loblolly Pine Genome: Characterization of BAC and Fosmid Sequences.

Jill L. Wegrzyn, Brian Y. Lin, Jacob J. Zieve, William M. Dougherty, Pedro J. Martínez-García, Maxim Koriabine, Ann Holtz-Morris, Pieter deJong, Marc Crepeau, Charles H. Langley, Daniela Puiu, Steven L. Salzberg, David B. Neale, Kristian A. Stevens
PLoS One, 4 September 2013; 8(9): e72439, 18 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3762812/>

Method of making a paired tag library for nucleic acid sequencing

Inventors: Bin Li, Lei Xi, Swati S. Ranade, Yangzhou Wang
United States Patent: US 8530197 B2, Publication Date: 10 September 2013;
<http://www.google.com/patents/US8530197>

Reducing assembly complexity of microbial genomes with single-molecule sequencing.

Sergey Koren, Gregory P. Harhay, T. P. Smith, James L. Bono, Dayna M. Harhay, Scott D. Mcvey, Diana Radune, Nicholas H. Bergman, and Adam M. Phillippy.
Genome Biology, 13 September 2013; 14(9): R101, 16 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4053942/>

Methods and compositions for nucleic acid sample preparation.

Inventors: Pranav Patel, Keith Bjornson, Kevin Travers, Cheryl Heiner
United States Patent: US 8535886 B2, Publication Date: 17 September 2013
<http://www.google.com/patents/US8535886>

Dynamic Evolution of Rht-1 Homologous Regions in Grass Genomes.

Jing Wu, Xiuying Kong, Chao Shi, Yongqiang Gu, Cuiyun Jin, Lizhi Gao, and Jizeng Jia.
PLoS One, 24 September 2013; 8(9): e75544, 14 pp.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0075544>

Parallel Methods For Insertional Mutagenesis.

Inventor: Michael Paul Strathmann

US Patent Application: 2013/0252829 A1, Publication Date: 26 September 2013

<http://www.google.com/patents/US20130252829>

Method of making a paired tag library for nucleic acid sequencing

Inventors: Bin Li, Lei Xi, Swati Ranade, Yangzhou Wang

US Patent Application: 2013/0252851 A1, Publication Date: 26 September 2013

<http://www.google.com/patents/US20130252851>

Non-contiguous finished genome sequence and description of *Clostridium dakareense* sp. nov.

Cheikh Ibrahima Lo, Ajay Kumar Mishra, Roshan Padhmanabhan, Bissoume Samb, Amy Gassama Sow, Catherine Robert, Carine Couderc, Ngor Faye, Didier Raoult, Pierre-Edouard Fournier, and Florence Fenollar

Standards in Genomic Sciences, 30 September 2013; 9(1): 14-27.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3910555/>

Nucleic acid adaptors and uses thereof.

Inventors: Bin Li, Zhoutao Chen, Tanya Biorac, and Melvin Wei.

U.S. Patent Application: 2013/0261027 A1, Publication Date: 3 October 2013;

<https://www.google.com/patents/US20130261027>

Non-contiguous finished genome sequence and description of *Bartonella florenciae* sp. nov.

Oleg Mediannikov, Khalid El Karkouri, Catherine Robert, Pierre-Edouard Fournier, Didier Raoult.

Standards in Genomic Sciences, 16 October 2013; 9(1): 185-196.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3910550/>

Capture reactions.

Inventors: Mark Umbarger, Gregory Porreca, Charles Towne, and George Church.

U.S. Patent Application: 2013/0274146 A1, Publication Date: 17 October 2013;

<https://www.google.com/patents/US20130274146>

Method of preparing libraries of template polynucleotides

Inventors: Niall Anthony Gormley, Geoffrey Paul Smith, David Bentley, Roberto Rigatti, Shujun Luo

United States Patent: US 8563478 B2, Publication Date: 22 October 2013;

<http://www.google.com/patents/US8563478>

The effects of thermal stress and fluid pressure on induced seismicity during stimulation to production within fractured reservoirs.

Ghazal Izadi, and Derek Elsworth.

Terra Nova, October 2013; 25(5): 374-380.

Whole genome sequencing of Gir cattle for identifying polymorphisms and loci under selection.

Xiaoping Liao, Fred Peng, Selma Forni, David McLaren, Graham Plastow, and Paul Stothard.

Genome, October 2013; 56(10): 592-598.

<http://www.nreresearchpress.com/doi/full/10.1139/gen-2013-0082>

Rotation-dependent transcriptional sequencing systems and methods of using

Inventor: Theofilos Kotseroglou

United States Patent: US 8574840 B2, Publication Date: 5 November 2013

<http://www.google.com/patents/US8574840>

Characterization and overexpression of a novel β -agarase from *Thalassomonas agarivorans*.

S-S. Liang, Y-P. Chen, Y-H. Chen, S-H. Chiu, and L-L. Liaw.

Journal of Applied Microbiology, 11 November 2013; 116(3): 563-572.

Genomic Characterisation of Invasive Non-Typhoidal *Salmonella enterica* subspecies *enterica* serovar *Bovismorbificans* Isolates from Malawi.

Christina Bronowski, Maria C. Fookes, Ruth Gilderthorp, Kevin E. Ashelford, Simon R. Harris, Amos Phiri, Neil Hall Melita A. Gordon, John Wain, Charles A. Hart, Paul Wigley, Nicholas R. Thomson, and Craig Winstanley

PLoS Neglected Tropical Diseases, 14 November 2013; 7(11): e2557, 12 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3828162/>

Evolution of Bacteriophage Host Attachment Using Det7 as a Model

Robert H. Edgar

MS Theses, 19 November 2013; University of Pittsburgh, 58 pp

<http://d-scholarship.pitt.edu/20360/>

Enrichment and genome sequence of the group I. 1a ammonia-oxidizing archaeon “*Ca. Nitrosotenuis uzonensis*” representing a clade globally distributed in thermal habitats.

Elena V. Lebedeva, Roland Hatzepichler, Eric Pelletier, Nathalie Schuster, Sandra Hauzmayer, Aleksandr Bulaev, Nadezhda V. Grigor’eva, Alexander Galushko, Markus Schmid, Marton Palatinszky, Denis Le Paslier, Holger Daims, and Michael Wagner

PLoS One, 20 November 2013; 8(11): e80835, 12 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3835317/>

Methods and compositions for generating and amplifying DNA libraries for sensitive detection and analysis of DNA methylation.

Inventors: Vladimir L. Makarov, Emmanuel Kamberov, Tong Sun, Jonathan H. PINTER, Brendan J. Tarrier, Eric E. Bruening, Takao Kurihara, Tim Tesmer, Joseph M'Mwirichia,

US Patent Application: 2013/0309668 A1, Publication Date: 21 November 2013

<http://www.google.com/patents/US20130309668>

Methods for detection of methyl-CpG dinucleotides.

Inventor: John J. Dunn

United States Patent: US 8592185 B2, Publication Date: 26 November 2013;

<https://www.google.com/patents/US8592185>

Etude structurale et fonctionnelle de la polykétide synthase PpsC et de son activateur PptT chez *Mycobacterium tuberculosis*

Alexandre Faille

PhD Theses, 27 November 2013; Université de Toulouse & Université Toulouse III-Paul Sabatier

Culturomics identified 11 new bacterial species from a single anorexia nervosa stool sample.

A. Pfeleiderer, J-C. Lagier, Fabrice Armougom, C. Robert, B. Vialettes, and Didier Raoult.

European Journal Clinical Microbiology & Infectious Diseases, November 2013; 32(11): 1471-1481.

Amino acid racemization in *Pseudomonas putida* KT2440.

Atanas D. Radkov, and Luke A. Moe.

Journal of Bacteriology, November 2013; 195(22): 5016-5024

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3811597/>

Determining the clinical significance of variant sequences.

Inventors: Caleb Kennedy, Mark Umbarger, and Greg Porreca.

U.S. Patent Application: 2013/0324417 A1, Publication Date: 5 December 2013;

<https://www.google.com/patents/US20130324417>

Method of detecting resistance to cancer therapy.

Inventors: Yijun Ruan, Sin Tiong Ong, King-Pan Ng, Charles Thuan Heng Chuah, Axel Maximilian Hillmer, and Wen Chun Juan.

U.S. Patent Application: 2013/0324533 A1, Publication Date: 5 December 2013;

<https://www.google.com/patents/US20130324533>

Switchgrass ubiquitin promoter (PVUBI2) and uses thereof.

Inventors: C. Neal Stewart, David George James Mann

United States Patent: US 8604276 B2, Publication Date: 10 December 2013;

<http://www.google.com/patents/US8604276>

Novel sequences of brachyspira, immunogenic compositions, methods for preparation and use thereof.

Inventors: David J. Hampson, Tom La, Matthew I. Bellgard, Nyree D. Phillips

US Patent Application: 2013/0330370 A1, Publication Date: 12 December 2013

<http://www.google.com/patents/US20130330370>

Non-contiguous finished genome sequence of *Phocaeicola abscessus* type strain 7401987T.

Veronique Roux, Catherine Robert, and Didier Raoult.

Standards in Genomic Sciences, 15 December 2013; 9(2): 351-358.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4062633/>

Non-contiguous finished genome sequence and description of *Oceanobacillus massiliensis* sp. nov.

Veronique Roux, Matthieu Million, Catherine Robert, Alix Magne, and Didier Raoult.

Standards in Genomic Sciences, 15 December 2013; 9(2): 370-384.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4062624/>

Uniform fragmentation of DNA using binding proteins

Inventors: Frank Steemers, Jonathan Mark Boutell

United States Patent: US 8609341 B2, Publication Date: 17 December 2013

<http://www.google.com/patents/US8609341>

Methods and compositions for evaluating genetic markers.

Inventors: Gregory J. Porreca, Mark Umbarger

US Patent Application: 2013/0337447 A1, Publication Date: 19 December 2013

<http://www.google.com/patents/US20130337447>

[The draft genome of a socially polymorphic halictid bee, *Lasioglossum albipes*.](#)

Sarah D. Kocher, Cai Li, Wei Yang, Hao Tan, Soojin V. Yi, Xingyu Yang, Hopi E. Hoekstra, Guojie Zhang, Naomi E. Pierce, and Douglas W. Yu.

Genome Biology, 20 December 2013; 14(12): R142, 14 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4062844/>

[High throughput sequencing methods and analysis for microbiome research.](#)

Julia M. Di Bella, Yige Bao, Gregory B. Gloor, Jeremy P. Burton, and Gregor Reid.

Journal of Microbiological Methods, December 2013; 95(3): 401-414.

[High efficiency application of a mate-paired library from next-generation sequencing to postlight sequencing: *Corynebacterium pseudotuberculosis* as a case study for microbial *de novo* genome assembly.](#)

Rommel Thiago Jucá Ramos, Adriana Ribeiro Carneiro, Siomar de Castro Soares, Silvanira Barbosa, Leonardo Varuzza, Guilherme Orabona, Andreas Tauch, Vasco Azevedo, Maria Paula Schneider, and Artur Silva.

Journal of Microbiological Methods, December 2013; 95(3): 441-447.

[The conserved chimeric transcript UPGRADE2 is associated with unreduced pollen formation and is exclusively found in apomictic *Boechera* species.](#)

Martin Mau, José M. Corral, Heiko Vogel, Michael Melzer, Jörg Fuchs, Markus Kuhlmann, Nico De Storme, Danny Geelen, and Timothy F. Sharbel.

Plant Physiology, December 2013; 163(4): 1640-1659.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3850206/>

[A conserved apomixis-specific polymorphism is correlated with exclusive exonuclease expression in premeiotic ovules of apomictic *Boechera* species.](#)

José M. Corral, Heiko Vogel, Olawale M. Aliyu, Götz Hensel, Thomas Thiel, Jochen Kumlehn, and Timothy F. Sharbel.

Plant Physiology, December 2013; 163(4): 1660-1672.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3850208/>

[Preparation of metagenomic libraries from naturally occurring marine viruses.](#)

Sergei A. Solonenko, and Matthew B. Sullivan.

Methods in Enzymology, 2013; 531(Microbial Metagenomics, Metatranscriptomics, and Metaproteomics): 143-165.

[Protocols in Production Sequencing, 2013 versions](#)

DOE Joint Genome Institute

http://www.jgi.doe.gov/sequencing/protocols/protos_production.html

[Methods for deep examination of DNA.](#)

Mårten Neiman

publications.ki.se, 2013;

<http://hdl.handle.net/10616/41538>

[Rapport d'Activite 'II](#)

Pierre-Edouard Fournier

Centre National de Référence des Rickettsies, Coxiella et Bartonella, UMR 7278-IRD 198-INSERM U1095, 2013; 106 pp

Comparative Analysis of Tandem Repeats from Eukaryotic Genomes: Insight in Centromere Evolution.

Daniel Patrick Melters

PhD Theses, 2013; University of California, Davis, 125 pp.

<http://gradworks.umi.com/36/02/3602160.html>

2012.

Differential enzymatic fragmentation by whole genome amplification

Inventors: Nathan D. Lakey, Jeffrey A. Jeddelloh, and Yulia Korshunova.

United States Patent: US 8088581 B2, Publication Date: 3 January 2012;

<https://www.google.com/patents/US8088581>

Thermostable cellulase and methods of use.

Inventor: Phillip J. Brumm

United States Patent: US 8088612 B2, Publication Date: 3 January 2012;

<https://www.google.com/patents/US8088612>

Separation of tagged fragments.

Inventors: Cheryl Heiner, Kevin Travers, Stephen Turner

US Patent Application: 2012/0003699 A1, Publication Date: 5 January 2012;

<https://www.google.com/patents/US20120003699>

Generation of Long Insert Pairs Using a Cre-LoxP Inverse PCR Approach.

Ze Peng, Zhiying Zhao, Nandita Nath, Jeff L. Froula, Alicia Clum, Tao Zhang, Jan-Fang Cheng, Alex C. Copeland, Len A. Pennacchio, Feng Chen

PLoS One, 9 January 2012; 7(1): e29437, 8 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3253782/>

Thermostable viral polymerases and methods of use.

Inventors: Thomas W. Schoenfeld, Vinay K. Dhodda, Robert A. DiFrancesco, David A. Mead

United States Patent: US 8093030 B2, Publication Date: 10 January 2012

<http://www.google.com/patents/US8093030>

Complementary DNA Shearing and Size-selection Tools for Mate-pair Library Construction.

Alex Vira, Simran Singh, Sadaf Hoda, Ezra Abrams, and Chris Boles, Richard Kondo.

In: *Plant and Animal Genome XX Conference*, 14-18 January 2012; Plant and Animal Genome (HS+)

[http://www.sagescience.com/wp-](http://www.sagescience.com/wp-content/uploads/2012/08/20120110_Sage_Digilab_PAG_A0_poster.pdf)

[content/uploads/2012/08/20120110_Sage_Digilab_PAG_A0_poster.pdf](http://www.sagescience.com/wp-content/uploads/2012/08/20120110_Sage_Digilab_PAG_A0_poster.pdf)

Genome Sequencing of Pediatric Medulloblastoma Links Catastrophic DNA Rearrangements with TP53 Mutations.

Tobias Rausch, David TW Jones, Marc Zapatka, Adrian M. Stütz, Thomas Zichner, Joachim Weischenfeldt, Natalie Jäger, Marc Remke, David Shih, Paul A. Northcott, Elke Pfaff, Jelena Tica, Qi Wang, Luca Massimi, Hendrik Witt, Sebastian Bender, Sabrina Pleier, Huriye Cin, Cynthia Hawkins, Christian Beck, Andreas von Deimling, Volkmar Hans, Benedikt Brors, Roland Eils,

Wolfram Scheurlen, Jonathon Blake, Vladimir Benes, Andreas E. Kulozik, Olaf Witt, Dianna Martin, Cindy Zhang, Rinnat Porat, Diana M. Merino, Jonathan Wasserman, Nada Jabado, Adam Fontebasso, Lars Bullinger, Frank G. Rücker, Konstanze Döhner, Hartmut Döhner, Jan Koster, Jan J. Molenaar, Rogier Versteeg, Marcel Kool, Uri Tabori, David Malkin, Andrey Korshunov, Michael D. Taylor, Peter Lichter, Stefan M. Pfister, Jan O. Korbel

Cell, 20 January 2012; 148(1): 59-71.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3332216/>

Molecular cloning and characterization of the repetitive DNA sequences that comprise the constitutive heterochromatin of the W chromosomes of medaka fishes.

Yusuke Takehana, Kiyoshi Naruse, Yusuke Asada, Yoichi Matsuda, Tadasu Shin, Yuji Kohara, Asao Fujiyama, Satoshi Hamaguchi, and Mitsuru Sakaizumi.

Chromosome Research, January 2012; 20(1): 71-81.

https://www.researchgate.net/profile/Yoichi_Matsuda/publication/51833874_Molecular_cloning_and_characterization_of_the_repetitive_DNA_sequences_that_comprise_the_constitutive_heterochromatin_of_the_W_chromosomes_of_medaka_fishes/links/02e7e528d53f451808000000.pdf

Characterization and comparative genomic analysis of a novel bacteriophage, SFP10, simultaneously inhibiting both *Salmonella enterica* and *Escherichia coli* O157: H7.

Minjung Park, Ju-Hoon Lee, Hakdong Shin, Minsik Kim, Jeongjoon Choi, Dong-Hyun Kang, Sunggi Heu, and Sangryeol Ryu.

Applied and Environmental Microbiology, January 2012; 78(1): 58-69.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3255626/>

Functional characteristics of an endophyte community colonizing rice roots as revealed by metagenomic analysis.

A. Sessitsch, P. Hardoim, J. Döring, A. Weilharter, A. Krause, T. Woyke, B. Mitter, L. Hauberg-Lotte, F. Friedrich, M. Rahalkar, T. Hurek, A. Sarkar, L. Bodrossy, L. van Overbeek, D. Brar, J. D. van Elsas, and B. Reinhold-Hurek

Molecular Plant-Microbe Interactions, January 2012; 25(1): 28-36.

<http://apsjournals.apsnet.org/doi/abs/10.1094/MPMI-08-11-0204>

Development of a Multiplex PCR assay for detection & genogrouping of *Neisseria meningitidis*.

Hongfei Zhu, Quan Wang, Liuqing Wen, Jianguo Xu, Zhujun Shao, Min Chen, Mingliang Chen, Peter R. Reeves, Boyang Cao, and Lei Wang.

Journal of Clinical Microbiology, January 2012; 50(1): 46-51.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3256684/>

Complete mitochondrial genome of a carabid beetle, *Damaster mirabilissimus mirabilissimus* (Coleoptera: Carabidae).

Xinlong Wan, Mee Yeon Hong, Aimei Liao, Man Il Kim, Ki-Gyoung Kim, Yeon Soo Han, and Iksoo Kim.

Entomological Research, January 2012; 42(1): 44-54.

Insight into the transmission biology and species-specific functional capabilities of tsetse (Diptera: glossinidae) obligate symbiont *Wigglesworthia*.

Rita VM Rio, Rebecca E. Symula, Jingwen Wang, Claudia Lohs, Yi-neng Wu, Anna K. Snyder, Robert D Bjornson, Kenshiro Oshima, Bryan S Biehl, Nicole T Perna, Masahira Hattori, Serap Aksoy

MBio, January-February 2012; 3(1): e00240-11, 13 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3280448/>

[Short reads, circular genome: skimming solid sequence to construct the bighorn sheep mitochondrial genome.](#)

Joshua M. Miller, René M. Malenfant, Stephen S. Moore, and David W. Coltman.

Journal of Heredity, January-February 2012; 103(1): 140-146.

<http://jhered.oxfordjournals.org/content/103/1/140.long>

[Sequencing and annotated analysis of an Estonian human genome.](#)

Rutt Lilleoja, Aili Sarapik, Ene Reimann, Paula Reemann, Ülle Jaakma, Eero Vasar, Sulev Kõks
Gene, 1 February 2012: 493(1): 69-76

[Community annotation and bioinformatics workforce development in concert—Little Skate Genome Annotation Workshops and Jamborees.](#)

Qinghua Wang, Cecilia N. Arighi, Benjamin L. King, Shawn W. Polson, James Vincent, Chuming Chen, Hongzhan Huang, Brewster F. Kingham, Shallee T. Page, Marc Farnum Rendino, William Kelley Thomas, Daniel W. Udworthy, Cathy H. Wu, and the North East Bioinformatics Collaborative Curation Team

Database, 13 February 2012; 2012: bar064, 11pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3308154/>

[Insight into the transmission biology and species-specific functional capabilities of tsetse \(*Diptera: Glossinidae*\) obligate symbiont *Wigglesworthia*.](#)

Rita VM Rio, Rebecca E. Symula, Jingwen Wang, Claudia Lohs, Yi-neng Wu, Anna K. Snyder, Robert D. Bjornson, Kenshiro Oshima, Bryan S. Biehl, Nicole T. Perna, Masahira Hattori and Serap Aksoy

MBio, 14 February 2012; 3(1): e00240-11

[Next-Generation Sequencing Technologies](#)

Elaine R. Mardis

In: *NHGRI Current Topics in Genome Analysis 2012*, 22 February 2012; Presentation

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.398.2954&rep=rep1&type=pdf>

[Method of preparing libraries of template polynucleotides.](#)

Inventors: Niall Anthony Gormley, Geoffrey Paul Smith, David Bentley, Roberto Rigatti

EU Patent Application: EP 2423325 A1, Publication Date: 29 February 2012

<http://www.freepatentsonline.com/EP2423325.html>

[Illumina mate-paired DNA sequencing-library preparation using *Cre-Lox* recombination.](#)

Filip Van Nieuwerburgh, Ryan C. Thompson, Jessica Ledesma, Dieter Deforce, Terry Gaasterland, Phillip Ordoukhanian, and Steven R. Head.

Nucleic Acids Research, February 2012; 40(3): e24-e24.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3273786/>

[Complete genome sequence of *Salmonella enterica* serovar pullorum RKS5078.](#)

Ye Feng, Hua-Feng Xu, Qing-Hai Li, Si-Yao Zhang, Chun-Xiao Wang, Da-Ling Zhu, Feng-Lin Cao, Yong-Guo Li, Randal N. Johnston, Jin Zhou, Gui-Rong Liu, and Shu-Lin Liu

Journal of Bacteriology, February 2012; 194(3): 744-744.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3264078/>

Sequencing library and its preparation method thereof, terminal nucleic acid sequence determining method and system.

Changlei Han, Xun Xu, 徐讯, and 韩长磊.

PCT Patent Application: WO 2012/028105 A1, Publication Date: 8 March 2012.

<http://www.google.com/patents/WO2012028105A1?cl=en>

Genetically modified microorganism and process for production of macrolide compound using the microorganism.

Inventors: Kazuhiro Machida, Yasuhide Aritoku

European Patent: EP 1911843 B1, Publication Date: 14 March 2012

<http://www.freepatentsonline.com/EP1911843.html>

Linear vectors, host cells and cloning methods.

Inventors: Ronald Godiska; David A. Mead, Nikolai V. Ravin

European Patent: EP 1974037 B1, Publication Date: 14 March 2012.

<http://www.freepatentsonline.com/EP1974037.html>

Complete genome sequence of *Paenibacillus* sp. strain JDR-2

Virginia Chow, Guang Nong, Franz J. St. John, John D. Rice, Ellen Dickstein, Olga Chertkov, David Bruce, Chris Detter, Thomas Brettin, James Han, Tanja Woyke, Sam Pitluck, Matt Nolan, Amrita Pati, Joel Martin, Alex Copeland, Miriam Land, Lynne Goodwin, Jeffrey B. Jones, Lonnie O.

Ingram, Keelnathan T. Shanmugam, James F. Preston

Standards in Genomic Sciences, 19 March 2012; 6(1): 1-10.

Non-contiguous finished genome sequence & description of *Anaerococcus senegalensis* sp. nov.

Jean-Christophe Lagier, Khalid El Karkouri, Thi-Tien Nuyen, Fabrice Armougom, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 19 March 2012; 6(1): 116-125.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3359877/>

Community annotation and bioinformatics workforce development in concert - Little Skate Genome Annotation Workshops and Jamborees.

Qinghua Wang, Cecilia N. Arighi, Benjamin L. King, Shawn W. Polson, James Vincent, Chuming Chen, Hongzhan Huang, Brewster F. Kingham, Shallee T. Page, Marc Farnum Rendino, William Kelley Thomas, Daniel W. Udvary, Cathy H. Wu, and the North East Bioinformatics Collaborative Curation Team

Database: The Journal of Biological Databases and Curation, 20 March 2012; bar064, 11 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3308154/pdf/bar064.pdf>

Hydrodynamic shearing of DNA in a polymeric microfluidic device.

Irina V. Nesterova, Mateusz L. Hupert, Malgorzata A. Witek and Steven A. Soper

Lab on a Chip, 21 March 2012; 12(6): 1044-1047.

Identification of genes expressed in cultures of *E. coli* lysogens carrying the Shiga toxin-encoding prophage Φ 24_B.

Laura M. Riley, Marta Veses-Garcia, Jeffrey D. Hillman, Martin Handfield, Alan J. McCarthy, and Heather E. Allison.

BMC Microbiology, 22 March 2012; 12(1): 42, 14 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3342100/>

Genetic analysis of the *Cronobacter sakazakii* O4 to O7 O-antigen gene clusters and Development of a PCR assay for identification of all *C. sakazakii* O serotypes.

Yamin Sun, Min Wang, Quan Wang, Boyang Cao, Xin He, Kun Li, Lu Feng, and Lei Wang.
Applied and Environmental Microbiology, 23 March 2012; 78(11): 3966-3974.

Pirossequenciamento e análise comparativa de genomas do fitopatógeno *Xylella fastidiosa*.

Paulo Marques Pierry

MS Theses, 23 March 2012; Universidade de São Paulo.

<http://www.teses.usp.br/teses/disponiveis/46/46131/tde-15052012-104940/en.php>

Multiple long mate pair approaches to facilitate short read based *de novo* genome assembly.

Julianna Chow, Jaya Rajamani, James Han, Alicia Clum, Alex Copeland, Shweta Deshpande and Chia-Lin Wei

LBNL Poster LBNL-6064, 30 March 2012; LLNL-ABS-546451

<https://escholarship.org/uc/item/34f6p03s#page-1>

Development of polymorphic anonymous nuclear DNA markers for the endangered Mitchell's satyr butterfly, *Neonympha mitchellii mitchellii* (Lepidoptera: Nymphalidae).

Christopher A. Hamm

Conservation Genetics Resources, March 2012; 4(1): 127-128.

https://www.researchgate.net/profile/Christopher_Hamm/publication/236213556_Development_of_polymorphic_anonymous_nuclear_DNA_markers_for_the_endangered_Mitchells_satyr_butterfly_Neonympha_mitchellii_mitchellii_%28Lepidoptera_Nymphalidae%29/links/0deec517048162624800000.pdf

Genomic Characterization for Parasitic Weeds of the Genus *Striga* by Sample Sequence Analysis

Matt C. Estep, Bhavani S. Gowda, Kan Huang, Michael P. Timko, and Jeffrey L. Bennetzen.

The Plant Genome, March 2012, 5(1): 30-41

<https://dl.sciencesocieties.org/publications/tpg/articles/5/1/30>

Thermostable DNA polymerases and methods of use.

Inventors: Thomas W. Schoenfeld, and David A. Mead.

US Patent Application: 2012/0083018 A1, Publication Date: 5 April 2012.

<https://www.google.com/patents/US20120083018>

Nucleic acid adaptors and uses thereof.

Inventors: Tanya Biorac, Zhoutao Chen, Bin Li, Melvin Shiwade Wei

PCT Patent Application: WO 2012/044847 A1, Publication Date: 5 April 2012

<http://www.google.com/patents/WO2012044847A1>

Compositions and methods for nucleic acid sequencing.

Inventors: Cheryl Heiner, Congcong Ma, Geoff Otto, Kevin Travers, Stephen Turner

United States Patent: US 8153375 B2, Publication Date: 10 April 2012

<https://www.google.com/patents/US8153375>

Genome-wide DNA Methylation scan in major depressive disorder.

Sarven Sabunciyani, Martin J. Aryee, Rafael A. Irizarry, Michael Rongione, Maree J. Webster, Walter E. Kaufman, Peter Murakami, Andree Lessard, Robert H. Yolken, Andrew P. Feinberg, James B. Potash, and GenRED Consortium
PLoS One, 12 April 2012; 7(4): e34451, 9 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3325245/>

[Genetic basis of transcriptome differences between the founder strains of the rat HXB/BXH recombinant inbred panel.](#)

Marieke Simonis, Santosh S. Atanur, Sam Linsen, Victor Guryev, Frans-Paul Ruzius, Laurence Game, Nico Lansu Ewart de Bruijn, Sebastiaan van Heesch, Steven JM Jones, Michal Pravenec, Tim J Aitman, and Edwin Cuppen.
Genome Biology, 27 April 2012; 13(4): r31, 17 pp.
<http://genomebiology.com/content/13/4/r31>

[Evolution and expression of the highly variable cell adhesion molecule Dscam in the crustacean *Daphnia* and other arthropods.](#)

Daniela Brites
PhD Theses, 27 April 2012; University of Basel, 154 pp.
http://edoc.unibas.ch/18995/1/Thesis_Brites.pdf

[Sequencing chromosomal abnormalities reveals neurodevelopmental loci that confer risk across diagnostic boundaries.](#)

Michael E. Talkowski, Jill A. Rosenfeld, Ian Blumenthal, Vamsee Pillalamarri, Colby Chiang, Adrian Heilbut, Carl Ernst, Carrie Hanscom, Elizabeth Rossin, Amelia M. Lindgren, Shahrin Pereira, Douglas Ruderfer, Andrew Kirby, Stephan Ripke, David J. Harris, Ji-Hyun Lee, Kyungsoo Ha, Hyung-Goo Kim, Benjamin D. Solomon, Andrea L. Gropman, Diane Lucente, Katherine Sims, Toshiro K. Ohsumi, Mark L. Borowsky, Stephanie Loranger, Bradley Quade, Kasper Lage, Judith Miles, Bai-Lin Wu, Yiping Shen, Benjamin Neale, Lisa G. Shaffer, Mark J. Daly, Cynthia C. Morton, and James F. Gusella
Cell, 149, 27 April 2012; 149(3): 525-537.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3340505/>

[The plastid redox insensitive 2 mutant of *Arabidopsis* is impaired in PEP activity and high light-dependent plastid redox signalling to the nucleus.](#)

Peter Kindgren, Dmitry Kremnev, Nicolás E. Blanco, Juan de Dios Barajas López, Aurora Piñas Fernández, Christian Tellgren-Roth, Ian Small, and Åsa Strand.
The Plant Journal, April 2012; 70(2): 279-291.
<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-3113X.2011.04865.x/full>

[Localization and molecular characterization of putative O antigen gene clusters of *Providencia* species.](#)

Olga G. Ovchinnikova, Bin Liu, Dan Guo, Nina A. Kocharova, Alexander S. Shashkov, Miao Chen, Lu Feng, Antoni Rozalski, Yuriy A. Knirel and Lei Wang
Microbiology, April 2012; 158(4): 1024-1036.
http://www.microbiologyresearch.org/docserver/fulltext/micro/158/4/1024_mic055210.pdf?expires=1453142444&id=id&accname=guest&checksum=0E7107AECED4FCD955E62AE0FA458B72

[Sandwich assays in droplets.](#)

Inventors: Michael Samuels, Darren Roy Link
US Patent Application: 2012/0122714 A1, Publication Date: 17 May 2012.

<https://www.google.com/patents/US20120122714>

Genome and transcriptome analysis of the food-yeast *Candida utilis*.

Yasuyuki Tomita, Kazuho Ieko, Hideyuki Tamakawa, Takashi Gojobori, and Shigehito Ikushima.
PLoS One; 18 May 2012; 7(5): e37226, 10 pp.

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0037226>

Methods for indexing samples and sequencing multiple polynucleotide templates.

Inventors: Helen Bignell, Louise Fraser, Niall Anthony Gormley

United States Patent: US 8182989 B2; Publication Date: 22 May 2012

<https://www.google.com/patents/US8182989>

Method for sequencing a polynucleotide template.

Inventors: Eric Hans Vermaas, Graham John Worsley, Jonathan Mark Boutell, Colin Lloyd Barnes, Roberto Rigatti, Niall Anthony Gormley, Geoffrey Paul Smith, Vincent Peter Smith, Tobias William Barr Ost, David Bentley

United States Patent: US 8192930 B2; Publication Date: 5 June 2012

<https://www.google.com/patents/US8192930>

Non-invasive whole genome sequencing of a human fetus.

Jacob O. Kitzman, Matthew W. Snyder, Mario Ventura, Alexandra P. Lewis, Ruolan Qiu, L. E. Simmons, Hilary S. Gammill, Craig E. Rubens, Donna A. Santillan, Jeffrey C. Murray, Holly K. Tabor, Michael J. Bamshad, Evan E. Eichler, and Jay Shendure.

Science Translational Medicine, 6 June 2012; 4(137): 137ra76, 18 pp.

<http://europepmc.org/articles/PMC3379884>

Method for screening and quantifying various enzyme activities using a genetic enzyme screening system.

Inventors: Seung Goo Lee, Eugene Rha, Su Lim Choi, Jae Jun Song, Jong Hyun Choi, Hee Sik Kim

EU Patent Application: EP 2465946 A2, Publication Date: 6 June 2012

<http://www.freepatentsonline.com/EP2465946.html>

Method for extracting DNA from ffpe samples and use thereof.

Inventors: Xueyu Hong, Xiao Liu, Guan Wang, Huanming Yang, Minhong Zhang, Xiuqing Zhang, 刘晓, 张敏红, 张秀清, 杨焕明, 洪雪玉, 王冠,

PCT Patent Application: WO 2012/071985 A1, Publication Date: 7 June 2012

<http://www.google.com/patents/WO2012071985A1>

Compositions and Methods for Processing and Amplification of DNA Including Using Multiple Enzymes in a Single Reaction.

Inventors: Emmanuel Kamberov, Vladimir L. Makarov, Brendan J. Tarrier

US Patent Application: 2012/0142060 A1, Publication Date: 7 June 2012

<http://www.freepatentsonline.com/y2012/0142060.html>

The genomic landscape shaped by selection on transposable elements across 18 mouse strains.

Christoffer Nellåker, Thomas M. Keane, Binnaz Yalcin, Kim Wong, Avigail Agam, T. Grant Belgard, Jonathan Flint, David J. Adams, Wayne N. Frankel, and Chris P. Ponting.

Genome Biology, 15 June 2012; 13 (6): R45, 21 pp.

<http://www.biomedcentral.com/content/pdf/gb-2012-13-6-r45.pdf>

[Uniform fragmentation of DNA using binding proteins.](#)

Inventors: Frank Steemers, Jonathan Mark Boutell

United States Patent: US 8202691 B2, Publication Date: 19 June 2012;

<http://www.freepatentsonline.com/8202691.html>

[Method of preparing DNA sample for sequencing and use thereof.](#)

Inventors: A San, Chunyu Geng, WU Kui, Huanming Yang, Xiuqing Zhang, 吴逵, 张秀清, 杨焕明, 耿春雨, and 阿叁.

PCT Patent Application: WO 2012/079486 A1, Publication Date: 21 June 2012;

<http://www.google.com/patents/WO2012079486A1?cl=en>

[Sequencing the Bonobo Genome.](#)

Anne Fischer, Susan Ptak, Kay Prüfer, Chinnappa Kodira, Janet Kelso, and Svante Pääbo.

Nature, 22 June 2012; Supplementary Information 1 to 486(7404): 527-531, 7 pp.

http://pubman.mpdl.mpg.de/pubman/item/escidoc:1563266/component/escidoc:2162007/Pruefer_Bonobo_Nature_2012_Suppl.pdf

[Amplification and analysis of whole genome and whole transcriptome libraries generated by a DNA polymerization process.](#)

Inventors: Emmanuel Kamberov, Tong Sun, Eric Bruening, Jonathon H. Pinter, Irina Sleptsova, Takao Kurihara, and Vladimir L. Makarov.

United States Patent: US 8206913 B1, Publication Date: 26 June 2012;

<https://www.google.com/patents/US8206913>

[Sequence assembly.](#)

Inventors: Caleb Kennedy, Gregory J. Porreca

United States Patent: US 8209130 B1, Publication Date: 26 June 2012;

<http://www.freepatentsonline.com/8209130.html>

[Methods and compositions for evaluating genetic markers.](#)

Inventors: Gregory Porreca, Uri Laserson, Jin Billy Li, and E. Robert Wassman.

U.S. Patent Application: 2012/0165202 A1, Publication Date: 28 June 2012;

<https://www.google.com/patents/US20120165202>

[Method for sequencing a polynucleotide template.](#)

Inventor: John Stephen West (Illumina)

U.S. Patent Application: 2012/0165205 A1, Publication Date: 28 June 2012;

<https://www.google.com/patents/US20120165205>

[Cranberry microsatellite marker development from assembled next-generation genomic sequence.](#)

Laura Georgi, Roberto H. Herai, Ramon Vidal, Marcelo Falsarella Carazzolle, Gonçalo Guimarães Pereira, James Polashock, and Nicholi Vorsa.

Molecular Breeding, June 2012; 30(1): 227-237.

<http://nalcd.nal.usda.gov/download/58489/PDF>

Genetic analysis of the *Cronobacter sakazakii* O4 to O7 O-antigen gene clusters and development of a PCR assay for identification of all *C. sakazakii* O serotypes.

Yamin Sun, Min Wang, Quan Wang, Boyang Cao, Xin He, Kun Li, Lu Feng, and Lei Wang.
Applied and Environmental Microbiology, June 2012; 78(11): 3966-3974.
<http://aem.asm.org/content/78/11/3966.full>

Telomere-targeted retrotransposons in the rice blast fungus *Magnaporthe oryzae*: agents of telomere instability.

John H. Starnes, David W. Thornbury, Olga S. Novikova, Cathryn J. Rehmeyer, Mark L. Farman.
Genetics, June 2012; 191(2): 389-406 + Supporting info 40 pp.
<http://www.genetics.org/content/191/2/389.long>

Cancer of the ampulla of Vater: analysis of the whole genome sequence exposes a potential therapeutic vulnerability.

Michael J. Demeure, David W. Craig, Shripad Sinari, Tracy M. Moses, Alexis Christoforides, Jennifer Dinh, Tyler Izatt, Jessica Aldrich, Ardis Decker, Angela Baker, Irene Cherni, April Watanabe, Lawrence Koep, Douglas Lake, Galen Hostetter, Jeffrey M Trent, Daniel D Von Hoff, and John D Carpten
Genome Medicine, 4 July 2012; 4(7): 56, 10 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3580412/>

Method for increasing resistance to pathogens in transgenic plants.

Inventors: Dimitar Douchkov, and Patrick Schweizer.
United States Patent: US 8222486 B2, Publication Date: 17 July 2012;
<https://www.google.com/patents/US8222486>

Sequence Analysis of the genome of the plant growth-promoting bacterium *Pseudomonas putida* UW4.

Jin Duan
PhD Theses, 20 July 2012; University of Waterloo, Canada.
<https://uwspace.uwaterloo.ca/handle/10012/6823>

Genome sequence and description of *Alistipes senegalensis* sp. nov.

Ajay Kumar Mishra, Gregory Gimenez, Jean-Christophe Lagier, Catherine Robert, Didier Raoult, and Pierre-Edouard Fournier.
Standards in Genomic Sciences, 30 July 2012; 6(3): 304-314.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558963/>

Non-contiguous finished genome sequence and description of *Alistipes timonensis* sp. nov.

Jean-Christophe Lagier, Fabrice Armougom, Ajay Kumar Mishra, Thi-Tien Nguyen, Didier Raoult, Pierre-Edouard Fournier
Standards in Genomic Sciences, 30 July 2012; 6(3): 315-324.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558960/>

Complete genome sequence of *Thauera aminoaromatica* strain MZ1T

Ke Jiang, John Sanseverino, Archana Chauhan, Susan Lucas, Alex Copeland, Alla Lapidus, Tijana Glavina Del Rio, Eileen Dalin, Hope Tice, David Bruce, Lynne Goodwin, Sam Pitluck, David Sims, Thomas Brettin, John C Detter, Cliff Han, Frank Larimer, Miriam Land, Loren Hauser, Nikos C. Kyrpides, Natalia Mikhailova, Scott Moser, Patricia Jegier, Dan Close, Jennifer M. DeBruyn, Ying Wang, Alice C. Layton, Michael S. Allen, Gary Saylor

Standards in Genomic Sciences, 30 July 2012; 6(3): 325-335.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558969/pdf/sigs.2696029.pdf>

Non-contiguous finished genome sequence and description of *Bacillus timonensis* sp. nov.

Sahare Kokcha, Ajay Kumar Mishra, Jean-Christophe Lagier, Matthieu Million, Quentin Leroy, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 30 July 2012; 6(3): 346-355.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558959/>

Non-contiguous finished genome sequence and description of *Anaerococcus vaginalis*.

Perrine Hugon, Ajay Kumar Mishra, Catherine Robert, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 30 July 2012; 6(3): 356-365.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558966/>

Complete Genome Sequence of *Paenibacillus* strain Y4.12MC10, a Novel *Paenibacillus lautus* strain Isolated from Obsidian Hot Spring in Yellowstone National Park

David A. Mead, Susan Lucas, Susan Lucas, Alex Copeland, Alla Lapidus, Jan-Feng Cheng, David C. Bruce, Lynne A. Goodwin, Sam Pitluck, Olga Chertkov, Xiaojing Zhang, John C. Detter, Cliff S. Han, Roxanne Tapia, Miriam Land, Loren J. Hauser, Yun-juan Chang, Nikos C. Kyrpides, Natalia N. Ivanova, Galina Ovchinnikova, Tanja Woyke, Catherine Brumm, Rebecca Hochstein, Thomas Schoenfeld, Phillip John Brumm

Standards in Genomic Sciences, 30 July 2012; 6(3): 366-385

Non-contiguous finished genome sequence and description of *Clostridium senegalense* sp. nov.

Ajay Kumar Mishra, Jean-Christophe Lagier, Catherine Robert, Didier Raoult, and Pierre-Edouard Fournier.

Standards in Genomic Sciences, 30 July 2012; 6(3): 386-395.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558962/>

Complete genome sequence of *Oscillibacter valericigenes* Sjm18-20T (=NBRC 101213T)

Yoko Katano, Shun Fujinami, Akatsuki Kawakoshi, Hidekazu Nakazawa, Syoko Oji, Takao Iino, Akio Oguchi, Akiho Ankai, Shigehiro Fukui, Yasuyuki Terui, Sachi Kamata, Takeshi Harada, Satoshi Tanikawa, Ken-ichiro Suzuki, Nobuyuki Fujita

Standards in Genomic Sciences, 30 July 2012; 6(3): 406-414.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558957/pdf/sigs.2826118.pdf>

Complete genome sequence of bacteriophage VvAW1, which infects *Vibrio vulnificus*

Olivia D Nigro, Alex I Culley, Grieg F Steward

Standards in Genomic Sciences, 30 July 2012; 6(3): 415-426

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558961/pdf/sigs.2846206.pdf>

Inheritance of the *Salmonella* virulence plasmids: Mostly vertical and rarely horizontal.

Ye Feng, Ji Liu, Yong-Guo Li, Feng-Lin Cao, Randal N. Johnston, Jin Zhou, Gui-Rong Liu, and Shu-Lin Liu.

Infection, Genetics and Evolution, July 2012; 12(5): 1058-1063.

Methods and compositions for nucleic acid sample preparation.

Inventors: Swati Ranade, Yu-Chih Tsai, Jason Underwood

US Patent Application: 2012/0196279 A1, Publication Date: 2 August 2012

<http://www.google.com/patents/US20120196279>

Methods and compositions for nucleic acid sample preparation.

Inventors: Keith Bjornson, Cheryl Heiner, Pranav Patel, Kevin Travers
United States Patent: US 8236499 B2, Publication Date: 7 August 2012
<https://www.google.com/patents/US8236499>

Method for increasing pathogen resistance in transgenic plants.

Inventors: Markus Frank, Patrick Schweizer, Dimitar Douchkov
European Patent: EP 2487245 A2, Publication Date: 15 August 2012

A Mitogenomic Re-Evaluation of the Bdelloid Phylogeny and Relationships among the Syndermata.

Erica Lasek-Nesselquist
PLoS One, 23 August 2012; 7(8): e43554, 11 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3426538/>

Rotation-dependent transcriptional sequencing systems and methods of using.

Inventor: Theofilos Kotseroglou
US Patent Application: 2012/0214171 A1, Publication Date: 23 August 2012;

Methods Employing McrA to Detect 5-Methyl Cytosine.

Inventor: John J. Dunn, Eli Hatchwell.
US Patent Application: 2012/0219942 A1, Publication Date: 30 August 2012;
<https://www.google.com/patents/US20120219942>

The mitochondrial genome of *Malus domestica* and the import-driven hypothesis of mitochondrial genome expansion in seed plants.

Vadim V. Goremykin, Peter J. Lockhart, Roberto Viola, and Riccardo Velasco.
The Plant Journal, August 2012; 71(4): 615-626.
https://www.researchgate.net/profile/Riccardo_Velasco/publication/223981636_The_mitochondrial_genome_of_Malus_domestica_and_the_import-driven_hypothesis_of_mitochondrial_genome_expansion_in_seed_plants/links/5406d6070cf2c48563b26cce.pdf

Application of Bioinformatics to protein domain, protein network, and whole genome studies

Kirill Andreyevic Borziak
PhD Theses, August 2012; University of Tennessee, 119 pp.
http://trace.tennessee.edu/cgi/viewcontent.cgi?article=2635&context=utk_graddiss

Comparative genome analysis of three eukaryotic parasites with differing abilities to transform leukocytes reveals key mediators of theileria-induced leukocyte transformation.

Kyoko Hayashida, Yuichiro Hara, Takashi Abe, Chisato Yamasaki, Atsushi Toyoda, Takehide Kosuge, Yutaka Suzuki, Yoshiharu Sato, Shuichi Kawashima, Toshiaki Katayama, Hiroyuki Wakaguri, Noboru Inoue, Keiichi Homma, Masahito Tada-Umezaki, Yukio Yagi, Yasuyuki Fujii, Takuya Habara, Minoru Kanehisa, Hidemi Watanabe, Kimihito Ito, Takashi Gojobori, Hideaki Sugawara, Tadashi Imanishi, William Weir, Malcolm Gardner, Arnab Pain, Brian Shiels, Masahira Hattori, Vishvanath Nene, and Chihiro Sugimoto
MBio, 4 September 2012; 3(5): e00204-12, 11 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3445966/pdf/mBio.00204-12.pdf>

Uniform fragmentation of DNA using binding proteins.

Inventors: Frank Steemers, Jonathan Mark Boutell

US Patent Application: 2012/0225787 A1, Publication Date: 6 September 2012

Method for sequencing a polynucleotide template.

Inventors: Eric Hans Vermaas, Graham John Worsley, Jonathan Mark Boutell, Colin Lloyd Barnes, Roberto Rigatti, Niall Anthony Gormley, Geoffrey Paul Smith, Vincent Peter Smith, Tobias William Barr Ost, David Bentley,

European Patent: EP 1987159 B1, Publication Date: 12 September 2012

<http://www.freepatentsonline.com/EP1987159.html>

Method for screening and quantifying various enzyme activities using a genetic enzyme screening system.

Inventors: Seung Goo Lee, Eugene Rha, Su Lim Choi, Jae Jun Song, Jong Hyun Choi, Hee Sik Kim

US Patent Application: 2012/0238470 A1, Publication Date: 20 September 2012;

<https://www.google.com/patents/US20120238470>

Bifidobacterium asteroides PRL2011 Genome Analysis Reveals Clues for Colonization of the Insect Gut.

Bottacini, Francesca, Christian Milani, Francesca Turrone, Borja Sánchez, Elena Foroni, Sabrina Duranti, Fausta Serafini, Alice Viappiani, Francesco Strati, Alberto Ferrarini, Massimo Delledonne, Bernard Henrissat, Pedro Coutinho, Gerald F. Fitzgerald, Abelardo Margolles, Douwe van Sinderen, Marco Ventura.

PLoS One, 20 September 2012; 7(9): e44229, 14 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3447821/>

Paired-End Sequencing of Long-Range DNA Fragments for De Novo Assembly of Large, Complex Mammalian Genomes by Direct Intra-Molecule Ligation.

Geng Chunyu Asan, Yan Chen, Kui Wu, Qingle Cai, Yu Wang, Yongshan Lang, Hongzhi Cao, Huangming Yang, Jian Wang, and Xiuqing Zhang.

PLoS One, 27 September 2012; 7(9): e46211, 11 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3459883/>

DNA tag and use thereof.

Inventors: Lei Cheng, Jun Wang, 王俊, and 程磊.

PCT Patent Application: WO 2012/126398 A1, Publication Date: 27 September 2012.

Long span DNA paired-end-tag (DNA-PET) sequencing strategy for the interrogation of genomic structural mutations and fusion-point-guided reconstruction of amplicons.

Fei Yao, Pramila N. Ariyaratne, Axel M. Hillmer, Wah Heng Lee, Guoliang Li, Audrey SM Teo, Xing Yi Woo, Zhenshui Zhang, Jieqi P. Chen, Wan Ting Poh, Kelson F. B. Zawack, Chee Seng Chan, See Ting Leong, Say Chuan Neo, Poh Sum D. Choi, Song Gao, Niranjana Nagarajan, Hervé Thoreau, Atif Shahab, Xiaoran Ruan, Valère Cacheux-Rataboul, Chia-Lin Wei, Guillaume Bourque, Wing-Kin Sung, Edison T. Liu, Yijun Ruan

PLoS One, 28 September 2012; 7(9): e46152, 12 pp.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0046152>

[Eight anonymous nuclear loci for the squamate antbird \(*Myrmeciza squamosa*\), cross-amplifiable in other species of typical antbirds \(*Aves*, *Thamnophilidae*\).](#)

Fábio Raposo do Amaral, Scott V. Edwards, and Cristina Y. Miyaki.

Conservation Genetics Resources, September 2012; 4(3): 645-647.

<http://link.springer.com/article/10.1007%2Fs12686-012-9612-y#page-1>

[Anonymous single-copy nuclear DNA \(scnDNA\) markers for Grey-cheeked Fulvetta \(*Alcippe morrisonia*\) and Rufouscapped Babbler \(*Stachyridopsis ruficeps*\)](#)

Bin Gao, Yanhua Qu, Gang Song, Huatao Liu, and Fumin Lei

Conservation Genetic Resources, September 2012; 4(3): 777-781

https://www.researchgate.net/profile/Fumin_Lei/publication/235955931_Anonymous_single-copy_nuclear_DNA_%28scnDNA%29_markers_for_Grey-cheeked_Fulvetta_%28Alcippe_morrisonia%29_and_Rufous-capped_Babbler_%28Stachyridopsis_ruficeps%29/links/0deec5209dc69e1355000000.pdf

[Draft genome sequence of a psychrotolerant sulfur-oxidizing bacterium, *Sulfuricella denitrificans* skB26, and proteomic insights into cold adaptation.](#)

Tomohiro Watanabe, Hisaya Kojima, and Manabu Fukui.

Applied and Environmental Microbiology, September 2012; 78(18): 6545-6549.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3426700/pdf/zam6545.pdf>

[Biology of a Novel Mycobacteriophage, SWU1, Isolated from Chinese Soil as Revealed by Genomic Characteristics.](#)

Xiangyu Fan, Tieshan Teng, Honghai Wang, and Jianping Xie.

Journal of Virology, September 2012; 86(18): 10230-10231.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3446572/>

[An independent genome duplication inferred from Hox paralogs in the American paddlefish - a representative basal ray-finned fish and important comparative reference.](#)

Karen D. Crow, Christopher D. Smith, Jan-Fang Cheng, Günter P. Wagner, and Chris T. Amemiya.

Genome Biology and Evolution, September 2012; 4(9): 825-841.

<http://intl-gbe.oxfordjournals.org/content/4/9/825.full>

[Complete genome sequence of *Bradyrhizobium* sp. S23321: insights into symbiosis evolution in soil oligotrophs.](#)

Takashi Okubo, Takahiro Tsukui, Hiroko Maita, Shinobu Okamoto, Kenshiro Oshima, Takatomo Fujisawa, Akihiro Saito, Hiroyuki Futamata, Reiko Hattori, Yumi Shimomura, Shin Haruta, Sho Morimoto, Yong Wang, Yoriko Sakai, Masahira Hattori, Shin-ichi Aizawa, Kenji V P Nagashima, Sachiko Masuda, Tsutomu Hattori, Akifumi Yamashita, Zhihua Bao, Masahito Hayatsu, Hiromi Kajiya-Kanegae, Ikuo Yoshinaga, Kazunori Sakamoto, Koki Toyota, Mitsuteru Nakao, Mitsuyo Kohara, Mizue Anda, Rieko Niwa, Park Jung-Hwan, Reiko Sameshima-Saito, Shin-ichi Tokuda, Sumiko Yamamoto, Syuji Yamamoto, Tadashi Yokoyama, Tomoko Akutsu, Yasukazu Nakamura, Yuka Nakahira-Yanaka, Yuko Takada Hoshino, Hideki Hirakawa, Hisayuki Mitsui, Kimihiro Terasawa, Manabu Itakura, Shusei Sato, Wakako Ikeda-Ohtsubo, Natsuko Sakakura, Eli Kaminuma, and Kiwamu Minamisawa

Microbes and Environments, September 2012; 27(3): 306-315.

[Development of O-Serogroup Specific PCR Assay for Detection and Identification of *Vibrio parahaemolyticus*.](#)

Min Chen, Dan Guo, Hin-chung Wong, Xi Zhang, Fenxia Liu, Hongyou Chen, Miao Chen, Bin Liu, Lei Wang, Fan Wu, Lu Feng
International Journal of Food Microbiology, 1 October 2012; 159(2): 122-129.

Implementation of the target enrichment approach for the Next Generation Sequencing-based identification of genomic aberration and the Identification of epigenetic and structural aberration in glioblastoma

Sabine Kelkenberg-Schade

PhD Dissertation, Ruprecht-Karls University, Heidelberg, Germany, 8 October 2012; 166 pp.
<http://archiv.ub.uni-heidelberg.de/volltextserver/13841/>

Non-contiguous finished genome sequence and description of *Peptoniphilus timonensis* sp. nov.

Ajay Kumar Mishra, Jean-Christophe Lagier, Catherine Robert, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 10 October 2012; 7(1): 1-11.

Non-contiguous finished genome sequence and description of *Paenibacillus senegalensis* sp. nov.

Ajay Kumar Mishra, Jean-Christophe Lagier, Romain Rivet, Didier Raoult, Pierre-Edouard Fournier
Standards in Genomic Sciences, 10 October 2012; 7(1): 70-81.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3577113/>

Bioinformatic analysis of the *Acinetobacter baumannii* phage AB1 genome.

Peizhen Li, Biaobang Chen, Zhijian Song, Yulong Song, Yanmei Yang, Ping Ma, Huifeng Wang, Jun Ying, Ping Ren, Lei Yang, Guohui Gao, Shouguang Jin, Qiyu Bao, Hongjiang Yang
Gene, 10 October 2012; 507(2): 125-134.

Introduction to *Nasalis larvatus* Genome & Progress.

Mohd Hanif Ridzuan Mat Daud, Nur Aida Md Tamrin

Zoology Colloquium, 18 October 2012; PowerPoint presentation.

<http://www.academia.edu/2492585/EkologiOrangBelandia2012>

The genome of the obligate intracellular parasite *Trachipleistophora hominis*: new insights into microsporidian genome dynamics and reductive evolution.

Eva Heinz, Tom A. Williams, Sirintra Nakjang, Christophe J. Noël, Daniel C. Swan, Alina V. Goldberg, Simon R. Harris, Thomas Weinmaier, Stephanie Markert, Dörte Becher, Jörg Bernhardt, Tal Dagan, Christian Hacker, John M. Lucocq, Thomas Schweder, Thomas Rattei, Neil Hall, Robert P. Hirt, T. Martin Embley

PLoS Pathogens, 25 October 2012; 8(10): e1002979, 23 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3486916/>

Method for sample analysis of aneuploidies in maternal samples.

Inventors: Richard P. Rava, David A. Comstock, Brian Kent Rhee, Anupama Srinivasan

US Patent Application: 2012/0270739 A1, Publication Date: 25 October 2012

<http://www.freepatentsonline.com/y2012/0270739.html>

미세캡슐화한 녹차 및 자몽종자 추출물이 Murine RAW 264.7 대식세포주의 항염증에 미치는 영향 비교

(A comparison of anti-inflammatory activities of green tea and grapefruit seed extract with those of microencapsulated extracts.)

전윤경, 김명환, 성필남, and 장문정. (Jun YK, Kim MH, Seong PN, Chang MJ)
한국영양학회지 (Korean J. Nutrition), October 2012; 45(5): 443-451.

[High-Throughput Discovery of Mutations in Tef Semi-Dwarfing Genes by Next-Generation Sequencing Analysis.](#)

Qihui Zhu, Shavannor M. Smith, Mulu Ayele, Lixing Yang, Ansuya Jogi, Srinivasa R. Chaluvadi, and Jeffrey L. Bennetzen.

Genetics, 1 November 2012; 192(3): 819-829.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3522160/>

[An integrated map of genetic variation from 1,092 human genomes.](#)

Gil A. McVean and The 1000 Genomes Project Consortium (about 100 names)

Nature, 1 November 2012; 491(7422): 56-65 + Supplemental material, 114 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3498066/>

[Diagnostic sequencing with small nucleic acid circles.](#)

Inventors: Kevin Travers, Geoff Otto, Stephen Turner, Cheryl Heiner, and Congcong Ma.

United States Patent: US 8309330 B2, Publication Date: 13 November 2012;

<https://www.google.com/patents/US8309330>

[Metagenomic and Biochemical Characterizations of Sulfur Oxidation Metabolism in Uncultured Large Sausage-Shaped Bacterium in Hot Spring Microbial Mats.](#)

Satoshi Tamazawa, Kazuto Takasaki, Hideyuki Tamaki, Yoichi Kamagata, and Satoshi Hanada.

PLoS One, 21 November 2012; 7(11): e49793, 11 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3504083/>

[Genome sequence of the necrotrophic fungus *Penicillium digitatum*, the main postharvest pathogen of citrus.](#)

Marina Marcet-Houben, Ana-Rosa Ballester, Beatriz de la Fuente, Eleonora Harries, Jose F. Marcos, Luis González-Candelas, and Toni Gabaldón.

BMC Genomics, 21 November 2012; 13(1): 646, 18 pp.

<http://www.biomedcentral.com/1471-2164/13/646>

[Genômica comparativa de *Xylella fastidiosa*: diversidade do pangenoma e análise de genes de patogenicidade.](#)

Wesley Oliveira de Santana

PhD Theses, 27 November 2012; Universidade de São Paulo, Brasil, 156 pp.

<http://www.teses.usp.br/teses/disponiveis/46/46131/tde-10062013-105859/en.php>

[A physical, genetic and functional sequence assembly of the barley genome.](#)

The International Barley Genome Sequencing Consortium

Nature, 29 November 2012; 491(7426): 711-716 + Supplemental info, 83 pp.

<http://www.cs.ucr.edu/~stelo/papers/nature12s.pdf>

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.300.9981&rep=rep1&type=pdf>

[Paired-end sequencing of Fosmid libraries by Illumina.](#)

Louise JS Williams, Diana G. Tabbaa, Na Li, Aaron M. Berlin, Terrance P. Shea, Iain MacCallum, Michael S. Lawrence, Yotam Drier, Gad Getz, Sarah K. Young, David B. Jaffe, Chad Nusbaum, and Andreas Gnirke

Genome Research, November 2012; 22(11): 2241-2249.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3483553/pdf/2241.pdf>

High-throughput discovery of mutations in tef semi-dwarfing genes by next-generation sequencing analysis.

Qihui Zhu, Shavannor M. Smith, Mulu Ayele, Lixing Yang, Ansuya Jogi, Srinivasa R. Chaluvadi, and Jeffrey L. Bennetzen.

Genetics, November 2012; 192(3): 819-829.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3522160/>

Massive gene acquisitions in *Mycobacterium indicus pranii* provide a perspective on mycobacterial evolution.

Vikram Saini, Saurabh Raghuvanshi, Jitendra P. Khurana, Niyaz Ahmed, Seyed E. Hasnain, Akhilesh K. Tyagi, and Anil K. Tyagi.

Nucleic Acids Research, November 2012; 40(21): 10832-10850.
<http://nar.oxfordjournals.org/content/40/21/10832.full.pdf+html>

The nonribosomal peptide and polyketide synthetic gene clusters in two strains of entomopathogenic fungi in *Cordyceps*.

Wen-Jing Wang, Heiko Vogel, Yi-Jian Yao, and Liyan Ping.
FEMS Microbiology Letters, November 2012; 336(2): 89-97.

<http://femsle.oxfordjournals.org/content/336/2/89>

Application of metatranscriptomics to soil environments.

Lilia C. Carvalhais, Paul G. Dennis, Gene W. Tyson, and Peer M. Schenk.
Journal of Microbiological Methods, November 2012; 91(2): 246-251.

http://www.dennislab.net/uploads/2/0/5/8/20581472/carvalhais_et_al_2012_applying_metatranscriptomics_to_soil_environments.pdf

Next generation sequencing (NGS) technologies and their applications in omics-research.

Alisa Wilantho, Oranud Praditsup, Wanwisa Charoenchim, Supasak Kulawonganchai, Anunchai Assawamakin, and Sissades Tongsimma.

Thai Journal of Genetics, July-December 2012; 5(2): 104-129.

DNA encoding polypeptide involved in biosynthesis of herboxidiene.

Inventors: Kazuhiro Machida, Kaoru Okayama, Masashi Itoh, Asako Toyoda
European Patent: EP 2009/0758251 B1, Publication Date: 5 December 2012

Sequences of brachyspira, immunogenic composition, methods for preparation and use thereof.

Inventors: David J. Hampson, Tom La, Matthew I. Bellgard, Nyree D. Phillips
EU Patent Application: EP 2530087 A2, Publication Date: 5 December 2012

<http://www.freepatentsonline.com/EP2530087.html>

Methods and compositions for nucleic acid sample preparation.

Inventors: Pranav Patel, Keith Bjornson, Kevin Travers, Cheryl Heiner
US Patent Application: 2012/0309650 A1, Publication Date: 6 December 2012

<http://www.freepatentsonline.com/y2012/0309650.html>

The genomic and transcriptomic landscape of HeLa cells

Jonathan Landry

PhD Theses, 6 December 2012; Ruperto-Carola University, Heidelberg, Germany, 110 pp

<http://archiv.ub.uni-heidelberg.de/volltextserver/14617/1/2012.09.26.final.thesis.pdf>

Methods to Prepare DNA for Efficient Massive Sequencing.

Sverker Lundin

PhD Theses, 7 December 2012; Royal Institute of Technology, Stockholm, pp. 1-61

<http://www.diva-portal.org/smash/get/diva2:570053/FULLTEXT01.pdf>

Methods for nucleic acid mapping and identification of fine-structural-variations in nucleic acids.

Inventor: Si Lok

United States Patent: US 8329400 B2, Publication Date: 11 December 2012.

<https://www.google.com/patents/US8329400>

Method for increasing pathogen resistance in transgenic plants.

Inventors: Markus Frank, Patrick Schweizer, and Dimitar Douchkov.

United States Patent: US 8329988 B2, Publication Date: 11 December 2012.

<https://www.google.com/patents/US8329988>

Genomic sequence analysis and characterization of *Sneathia amnii* sp. nov.

Michael D. Harwich, Myrna G. Serrano, Jennifer M. Fettweis, João MP Alves, Mark A. Reimers, Gregory A. Buck, and Kimberly K. Jefferson.

BMC Genomics, 17 December 2012; 13(Suppl 8): S4, 15 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3535699/pdf/1471-2164-13-S8-S4.pdf>

Genome-wide sequencing for the identification of rearrangements associated with Tourette syndrome and obsessive-compulsive disorder.

Sean D. Hooper, Anna CV Johansson, Christian Tellgren-Roth, Eva-Lena Stattin, Niklas Dahl, Lucia Cavelier, and Lars Feuk.

BMC Medical Genetics, 19 December 2012; 13(1): 123, 10 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3556158/>

Non-contiguous finished genome sequence & description of *Herbaspirillum massiliense* sp. nov.

Jean-Christophe Lagier, Gregory Gimenez, Catherine Robert, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 19 December 2012; 7(2): 200-209.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569391/>

Non-contiguous finished genome sequence and description of *Kurthia massiliensis* sp. nov.

Veronique Roux, Khalid El Karkouri, Jean-Christophe Lagier, Catherine Robert, Didier Raoult

Standards in Genomic Sciences, 19 December 2012; 7(2): 221-232.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569394/>

Non-contiguous finished genome sequence & description of *Brevibacterium senegalense* sp. nov.

Sahare Kokcha, Dhamodharan Ramasamy, Jean-Christophe Lagier, Catherine Robert, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 19 December 2012; 7(2): 233-245.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569389/>

Genome sequence and description of *Aeromicrobium massiliense* sp. nov.

Dhamodharan Ramasamy, Sahare Kokcha, Jean-Christophe Lagier, Thi-Thien Nguyen, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 19 December 2012; 7(2): 246-257.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569385/pdf/sigs.3306717.pdf>

Non-contiguous finished genome sequence and description of *Cellulomonas massiliensis* sp. nov.

Jean-Christophe Lagier, Dhamodharan Ramasamy, Romain Rivet, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 19 December 2012; 7(2): 258-270.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569387/?report=classic>

Genome sequence of the halotolerant bacterium *Corynebacterium halotolerans*, type strain YIM 70093^T (= DSM 44683^T)

Christian Rückert, Andreas Albersmeier, Arwa Al-Dilaimi, Karsten Niehaus, Rafael Szczepanowski, Jörn Kalinowski

Standards in Genomic Sciences, 19 December 2012; 7(2): 284-293

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569386/pdf/sigs.3236691.pdf>

Complete genome sequence of the motile actinomycete *Actinoplanes missouriensis* 431T (= NBRC 102363T)

Hideki Yamamura, Masayuki Hayakawa, Yasuo Ohnishi, Jun Ishikawa, Natsuko Ichikawa, Haruo Ikeda, Mitsuo Sekine, Takeshi Harada, Sueharu Horinouchi, Misa Ootoguro, Tomohiko Tamura, Ken-ichiro Suzuki, Yasutaka Hoshino, Akira Arisawa, Youji Nakagawa, Nobuyuki Fujita, Masayuki Hayakawa

Standards in Genomic Sciences, 19 December 2012; 7(2): 294-303

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569393/pdf/sigs.3196539.pdf>

Non-contiguous finished genome sequence and description of *Peptoniphilus grossensis* sp. nov.

Ajay Kumar Mishra, Perrine Hugon, Catherine Robert, Didier Raoult, Pierre-Edouard Fournier

Standards in Genomic Sciences, 19 December 2012; 7(2): 320-330.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569384/>

HTS-PEG: a method for high throughput sequencing of the paired-ends of genomic libraries.

Sisi Zhou, Yonggui Fu, Jie Li, Lingyu He, Xingsheng Cai, Qingyu Yan, Xingqiang Rao, Shengfeng Huang, Guang Li, Yiquan Wang, and Anlong Xu

PLoS One, 20 December 2012; 7(12): e52257, 8 pp.

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0052257>

The genome of *Prunus mume*.

Zhang, Qixiang, Wenbin Chen, Lidan Sun, Fangying Zhao, Bangqing Huang, Weiru Yang, Ye Tao, Jia Wang, Zhiqiong Yuan, Guangyi Fan, Zhen Xing, Changlei Han, Huitang Pan, Xiao Zhong, Wenfang Shi, Xinming Liang, Dongliang Du, Fengming Sun, Zongda Xu, Ruijie Hao, Tian Lv, Yingmin Lv, Zequn Zheng, Ming Sun, Le Luo, Ming Cai, Yike Gao, Junyi Wang, Ye Yin, Xun Xu, Tangren Cheng & Jun Wang

Nature Communications, 27 December 2012; 3: 1318, 8 pp.

Method for Making Mate-Pair Libraries

Inventors: Feng Chen, Ze Peng, Zhiying Zhao, Nandita Nath, Jeff L. Froula

US Patent Application: 2012/0329678 A1, Publication Date: 27 December 2012;

<http://www.freepatentsonline.com/y2012/0329678.html>

Engineering industrial *Saccharomyces cerevisiae* strain with the *FLO1* derivative gene isolated from the flocculating yeast SPSC01 for constitutive flocculation and fuel ethanol production.

Lei-Yu He, Xin-Qing Zhao, and Feng-Wu Bai.
Applied Energy, December 2012; 100(C): 33-40.

Structural, serological, and genetic characterization of the O-antigen of *Providencia alcalifaciens* O40.

Olga G. Ovchinnikova, Bin Liu, Dan Guo, Nina A. Kocharova, Magdalena Bialczak-Kokot, Alexander S. Shashkov, Lu Feng, Antoni Rozalski, Lei Wang, and Yuriy A. Knirel.
FEMS Immunology & Medical Microbiology, December 2012; 66(3): 382-392.
<http://femsim.oxfordjournals.org/content/66/3/382.long>

From bacterial to microbial ecosystems (metagenomics).

Shannon J. Williamson, and Shibu Yooseph.
Methods Mol Biology, 2012; 804(Bacterial Molecular Networks): 35-55

Comparative studies on *Treponema pallidum*: comparative genomics of yaws agents and phenomics of BAC clones of syphilis agent.

Darina Čejková
PhD Dissertation, Masaryk University, Brno, Czech Republic, 2012; 108 pp.
http://is.muni.cz/th/15880/lf_d/Thesis-final.pdf

2011.

Development of tools for the preparation of genomic libraries for next-generation sequencing.

Aric Joneja.
PhD Theses, 1 January 2011; University of California, San Diego, pp.1-154.

Comparative genomic analysis of bacteriophages specific to the channel catfish pathogen *Edwardsiella ictaluri*.

Abel Carrias, Timothy J Welch, Geoffrey C Waldbieser, David A Mead, Jeffery S Terhune, Mark R Liles
Virology Journal, 7 January 2011; 8(1): 6, 12 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3025963/>

Genomic Architecture of an Adaptive Radiation.

Thomas D. Kocher
Proposal to NSF Evolutionary Processes, University of Maryland, 9 January 2011, 24 pp.
<http://wiki.umd.edu/CichlidGenetics/images/7/7a/GenomicArchitecture.pdf>

Nucleic acids of *Pichia pastoris* and use thereof for recombinant production of proteins.

Inventors: Nico Callewaert, Kristof De Schutter, Petra Tiels, Yao-Cheng Lin
US Patent Application: 2011/0021378 A1, Publication Date: 27 January 2011

Switchgrass Promoter and Uses Thereof.

Inventors: C. Neal Stewart, David George, James Mann

US Patent Application: 2011/0023183 A1, Publication Date: 27 January 2011

Distinctive mitochondrial genome of Calanoid copepod *Calanus sinicus* with multiple large non-coding regions and reshuffled gene order: Useful molecular markers for phylogenetic and population studies.

Wang Minxiao, Sun Song, Li Chaolun and Shen Xin

BMC Genomics, 27 January 2011; 12: 73, 20 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3041745/pdf/1471-2164-12-73.pdf>

Extreme Reconfiguration of Plastid Genomes in the Angiosperm Family *Geraniaceae*: Rearrangements, Repeats, and Codon Usage.

Mary M. Guisinger, Jennifer V. Kuehl, Jeffrey L. Boore and Robert K. Jansen

Molecular Biology and Evolution, January 2011; 28(1): 583-600.

<http://mbe.oxfordjournals.org/content/28/1/583.long>

Complete plastid genome sequences of three rosids (*Castanea*, *Prunus*, *Theobroma*): evidence for at least two independent transfers of *rpl22* to the nucleus.

Robert K. Jansen, Christopher Saski, Seung-Bum Lee, Anne K. Hansen, and Henry Daniell.

Molecular Biology and Evolution, January 2011; 28(1): 835-847.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3108605/>

Mining *Dictyoglomus turgidum* for enzymatically active carbohydrases.

Phillip Brumm, Spencer Hermanson, Becky Hochstein, Julie Boyum, Nick Hermersmann, Krishne Gowda, and David Mead.

Applied Biochemistry and Biotechnology, January 2011; 163(2): 205-214.

https://www.researchgate.net/profile/Phillip_Brumm/publication/45200732_Mining_Dictyoglomus_turgidum_for_enzymatically_active_carbohydrases/links/546b66af0cf2397f7831bea8.pdf

Genomic and molecular analysis of phage CMP1 from *Clavibacter michiganensis* subspecies *michiganensis*.

Johannes Wittmann, Karl-Heinz Gartemann, Rudolf Eichenlaub, and Brigitte Dreiseikelmann.

Bacteriophage, January-February 2011; 1(1): 6-14.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3109448/>

Neuronal genes for subcutaneous fat thickness in human and pig are identified by local genomic sequencing and combined SNP association study.

Kyung-Tai Lee, Mi-Jeong Byun, Kyung-Soo Kang, Eung-Woo Park, Seung-Hwan Lee, Seoae Cho, HyoYoung Kim, Kyu-Won Kim, TaeHeon Lee, Jong-Eun Park, WonCheoul Park, DongHyun Shin, Hong-Seog Park, Jin-Tae Jeon, Bong-Hwan Choi, Gul-Won Jang, Sang-Haeng Choi, Dae-Won Kim, Dajeong Lim, Hae-Suk Park, Mi-Rim Park, Jurg Ott, Lawrence B. Schook, Tae-Hun Kim, and Heebal Kim

PLoS One, 2 February 2011; 6(2): e16356, 10 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3032728/>

Hemicellulases and auxiliary enzymes for improved conversion of lignocellulosic biomass to monosaccharides.

Dahai Gao, Nirmal Uppugundla, Shishir PS Chundawat, Xiurong Yu, Spencer Hermanson, Krishne Gowda, Phillip Brumm, David Mead, Venkatesh Balan, and Bruce E Dale

Biotechnol Biofuels, 22 February 2011; 4(1): 5, 11 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3056733/>

[Comparative genomics of the social amoebae *Dictyostelium discoideum* and *Dictyostelium purpureum*.](#)

Richard Suggang, Alan Kuo, Xiangjun Tian, William Salerno, Anup Parikh, Christa L Feasley, Eileen Dalin, Hank Tu, Eryong Huang, Kerrie Barry, Erika Lindquist, Harris Shapiro, David Bruce, Jeremy Schmutz, Asaf Salamov, Petra Fey, Pascale Gaudet, Christophe Anjard, M Madan Babu, Siddhartha Basu, Yulia Bushmanova, Hanke van der Wel, Mariko Katoh-Kurasawa, Christopher Dinh, Pedro M Coutinho, Tamao Saito, Marek Elias, Pauline Schaap, Robert R Kay, Bernard Henrissat, Ludwig Eichinger, Francisco Rivero, Nicholas H Putnam, Christopher M West, William F Loomis, Rex L Chisholm, Gad Shaulsky, Joan E Strassmann, David C Queller, Adam Kuspa and Igor V Grigoriev

Genome Biology, 28 February 2011; 12(2): R20, 23 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3188802/>

[The mitochondrial genome of *Bacillus* stick insects \(*Phasmatodea*\) and the phylogeny of orthopteroid insects](#)

Federico Plazzi, Andrea Ricci and Marco Passamonti

Molecular Phylogenetics and Evolution, February 2011; 58(2): 304-316

[Aislamiento y caracterización de regiones promotoras de girasol para dirigir la expresión tejido específica de genes foráneos a semilla.](#)

Diego Zavallo

PhD Theses, February 2011; Universidad de Buenos Aires, 98 pp.

http://digital.bl.fcen.uba.ar/Download/Tesis/Tesis_4840_Zavallo.pdf

[Methods and compositions for generating and amplifying DNA libraries for sensitive detection and analysis of DNA methylation.](#)

Assigned to: Rubicon Genomics

EU Patent Application: EP 2290106 A1, Publication Date: 2 March 2011.

<http://www.freepatentsonline.com/EP2290106A1.html>

[Comparative chloroplast genomes of Pinaceae: insights into the mechanism of diversified genomic organizations.](#)

Chung-Shien Wu, Ching-Ping Lin, Chi-Yao Hsu, Rui-Jiang Wang, and Shu-Miaw Chaw.

Genome Biology and Evolution, 14 March 2011; 3: 309-319.

<http://gbe.oxfordjournals.org/content/3/309.long>

[Novel sequences of brachyspira, immunogenic compositions, methods for preparation and use thereof.](#)

Inventors: David J. Hampson, Tom La, Matthew I. Bellgard, and Nyree D. Phillips.

U.S. Patent Application: 2011/0064761 A1, Publication Date: 17 March 2011;

<https://www.google.com/patents/US20110064761>

[Host plant shifts affect a major defense enzyme in *Chrysomela lapponica*.](#)

Roy Kirsch, Heiko Vogel, Alexander Muck, Kathrin Reichwald, Jacques M. Pasteels, Wilhelm Boland.

Proceedings of the National Academy of Sciences USA, 22 March 2011; 108(12): 4897-4901.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3064323/>

Genetic characterization indicates a specific sub-population of *Pseudomonas aeruginosa* associated with keratitis infections.

Rosalind M.K. Stewart, Lutz Wiehlmann, Kevin E. Ashelford, Stephanie J. Preston, Eliane Frimmersdorf, Barry J. Campbell, Timothy J. Neal, Neil Hall, Stephen Tuft, Stephen B. Kaye, and Craig Winstanley

J. Clinical Microbiology, March 2011; 49(3): 993-1003.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3067716/>

Miniature Inverted-Repeat Transposable Element Identification and Genetic Marker Development in *Agrostis*.

Keenan Amundsen, David Rotter, Huaijun Michael Li, Joachim Messing, Geunhwa Jung, Faith Belanger, and Scott Warnke

Crop Sciences, March 2011; 51(2): 854-861

http://www.umass.edu/turfpathology/documents/Mite_manuscript_2011.pdf

Functional annotation of *Fibrobacter succinogenes* S85 carbohydrate active enzymes.

Phillip Brumm, David Mead, Julie Boyum, Colleen Drinkwater, Krishne Gowda, David Stevenson, and Paul Weimer.

Applied Biochemistry and Biotechnology, March 2011; 163(5): 649-657.

<http://naldc.nal.usda.gov/download/53697/PDF>

Comparative chloroplast genomes of *Pinaceae*: insights into the mechanism of diversified genomic organizations.

Chung-Shien Wu, Ching-Ping Lin, Chi-Yao Hsu, Rui-Jiang Wang, and Shu-Miaw Chaw.

Genome Biology and Evolution, March 2011; 3: 309-319.

Crawling through time: Transition of snails to slugs dating back to the Paleozoic, based on mitochondrial phylogenomics.

Mónica Medina, Shruti Lal, Yvonne Vallès, Tori L. Takaoka, Benoît A. Dayrat, Jeffrey L. Boore, and Terrence Gosliner.

Marine Genomics, March 2011; 4(1): 51-59.

http://medinalab.org/new/wp-content/uploads/2013/10/Medina_etal_2011_MarineGenomics.pdf

Digital MDA for enumeration of total nucleic acid contamination.

Paul C. Blainey, and Stephen R. Quake.

Nucleic Acids Research, March 2011; 39(4): e19, 9 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3045575/>

Chloroplast Genome Sequence of the Moss *Tortula ruralis*: Gene Content, Polymorphism, and Structural Arrangement Relative to Other Green Plant Chloroplast Genomes

Melvin J. Oliver, Andrew G. Murdock, and Brent D. Mishler. "Jennifer V. Kuehl, Jeffrey L. Boore, Dina F. Mandoli, Karin DE Everett, Paul G. Wolf, Aaron M. Duffy and Kenneth G. Karol.

In: *Phytopathology in Plants*, 15 April 2011; Philip Stewart, Sabine Globig eds, Apple Academic Press (Toronto, New Jersey): 278-292.

Methods for nucleic acid mapping and identification of fine-structural-variations in nucleic acids and utilities.

Inventor: Si Lok

United States Patent: US 7932029 B1, Publication Date: 26 April 2011

<https://www.google.com/patents/US7932029>

Organization of the chromosome region harboring a *FLORICAULA/LEAFY* gene in *Liriodendron*.

Haiying Liang, Abdelali Barakat, Scott E. Schlarbaum, and John E. Carlson.
Tree Genetics & Genomes, April 2011; 7(2): 373-384.

Refined human artificial chromosome vectors for gene therapy and animal transgenesis.

Y. Kazuki, H. Hoshiya, M. Takiguchi, S. Abe, Y. Iida, M. Osaki, M. Katoh, M. Hiratsuka, Y. Shirayoshi, K. Hiramatsu, E. Ueno, N. Kajitani, T. Yoshino, K. Kazuki, C. Ishihara, S. Takehara, S. Tsuji, F. Ejima, A. Toyoda, Y. Sakaki, V. Larionov, N. Kouprina, M. Oshimura.
Gene Therapy, April 2011; 18(4): 384-393.
<http://www.nature.com/gt/journal/v18/n4/full/gt2010147a.html>

Evaluation of biological agents for controlling enteric septicemia of catfish.

Abel Antonio Carrias.
PhD Theses, 3 May 2011; Auburn University, 173 pp.
<http://hdl.handle.net/10415/2585>

Complete genome sequence of *Mycoplasma suis* and insights into its biology and adaption to an erythrocyte niche.

Ana M. S. Guimaraes, Andrea P. Santos, Phillip SanMiguel, Thomas Walter, Jorge Timenetsky, Joanne B. Messick
PLoS One, 10 May 2011; 6(5): e19574, 9 pp.
<http://www.ncbi.nlm.nih.gov/pubmed/21573007>

***S. pastorianus* SSU1 gene, polypeptide, and their use in alcohol production.**

Inventors: Yoshihiro Nakao, Norihisa Nakamura, Yukiko Kodama, Tomoko Fujimura, Toshihiko Ashikari
European Patent: EP1599605 B1, Publication Date: 11 May 2011
<http://www.freepatentsonline.com/EP1599605.html>

Promoter for epidermis-specific, pathogen-inducible transgenic expression in plants.

Inventors: Patrick Schweizer, Axel Himmelbach, Lothar Altschmied, Helmut Maucher
European Patent: EP1888754 B1, Publication Date: 18 May 2011

Compositions and methods for processing and amplification of DNA, including using multiple enzymes in a single reaction.

Inventors: Vladimir L. Makarov; Emmanuel Kamberov; Brendan J. Tarrier
European Patent: EP1924704 B1, Publication Date: 25 May 2011
<http://www.freepatentsonline.com/EP1924704.html>

Characterization of a novel temperate phage originating from a cereulide-producing *Bacillus cereus* strain.

Pierre R. Smeesters, Pierre-Alexandre Drèze, Sabrina Bousbata, Kaarle J. Parikka, Sophie Timmery, Xiaomin Hu, David Perez-Morga, Marie Deghorain, Ariane Toussaint, Jacques Mahillon, Laurence Van Melderen
Research in Microbiology, May 2011; 162(4): 446-459.

Comparative analysis of *Gossypium* and *Vitis* genomes indicates genome duplication specific to the *Gossypium* lineage.

Lifeng Lin, Haibao Tang, Rosana O. Compton, Cornelia Lemke, Lisa K. Rainville, Xiyin Wang, Junkang Rong, Mukesh Kumar Rana, and Andrew H. Paterson.
Genomics, May 2011; 97(5): 313-320.
<http://www.sciencedirect.com/science/article/pii/S0888754311000553>

Die Endolysine von *Clavibacter michiganensis*-Phagen als Kandidaten für den biologischen Pflanzenschutz von Tomatenpflanzen.

Johannes Wittmann

PhD Theses, May 2011; der Universität Bielefeld, Germany, 201 pp.

<https://portal.dnb.de/opac.htm?method=simpleSearch&cqlMode=true&query=idn%3D1013913000>

Selective amplification of polynucleotide sequences.

Inventors: Zhoutao Chen; Hua Zhang

US Patent Application: 2011/0129834 A1, Publication Date: 02 June 2011

<https://www.google.com/patents/US20110129834>

Genes of an otitis media isolate of nontypeable *Haemophilus influenzae*.

Inventors: Lauren O. Bakaletz, Robert S. Munson Jr, David W. Dyer

EU Patent Application: EP 2330117 A1, Publication Date: 8 June 2011

Unraveling the *Acidithiobacillus caldus* complete genome and its central metabolisms for carbon assimilation.

Xiao-Yan You, Xu Guo, Hua-Jun Zheng, Ming-Jiang Zhang, Li-Jun Liu, Yong-Qiang Zhu, Baoli Zhu, Sheng-Yue Wang, Guo-Ping Zhao, Ansgar Poetsch, Cheng-Ying Jiang and Shuang-Jiang Liu
Journal of Genetics and Genomics, 20 June 2011; 38(6):243-252

Methods and compositions for determining methylation profiles.

Inventors: Robert Martienssen, Eric J. Richards, Zachary Lippmann, Vincent Colot

EU Patent Application: EP 2339025 A1, Publication Date: 29 June 2011

<http://www.freepatentsonline.com/EP2339025.html>

End modification to prevent over-representation of fragments.

Inventors: Roberto Rigatti, Niall Anthony Gormley, Helen Rachel Bignell

European Patent: EP 1991675 B1, Publication Date: 29 June 2011

<http://www.freepatentsonline.com/EP1991675.html>

Methods for generating shotgun and mixed shotgun/paired end libraries (with or without MID tags) for the 454 DNA sequencer Titanium Picotiter plates.

Graham Wiley, Simone Macmil, Jing Yi, Ruihua Shi, Chunmei Qu, Yanbo Xing, Doug White, James D. White, and Bruce A. Roe.

Online publication, 29 June 2011;

<http://www.genome.ou.edu/454proto/LibPrepPaper-06292011.pdf>

Genotype and phenotypes of an intestine-adapted *Escherichia coli* K-12 mutant selected by animal passage for superior colonization.

Andrew J. Fabich, Mary P. Leatham, Joe E. Grissom, Graham Wiley, Hongshing Lai, Fares Najjar, Bruce A. Roe, Paul S. Cohen, and Tyrrell Conway.

Infection and Immunity, June 2011; 79(6): 2430-2439.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3125843/>

[Genomic variations define divergence of water/wildlife - associated *Campylobacter jejuni* niche specialists from common clonal complexes.](#)

Philip J. Hepworth, Kevin E. Ashelford, Jason Hinds, Katherine A. Gould, Adam A. Witney, Nicola J. Williams, Howard Leatherbarrow, Nigel P. French, Richard J. Birtles, Chriselle Mendonca, Nick Dorrell, Brendan W. Wren, Paul Wigley, Neil Hall and Craig Winstanley.

Environmental Microbiology, June 2011; 13(6): 1549-1560.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569610/>

[Comparative genomics of citric-acid-producing *Aspergillus niger* ATCC 1015 versus enzyme-producing CBS 513.88.](#)

Mikael R. Andersen, Margarita P. Salazar, Peter J. Schaap, Peter J.I. van de Vondervoort, David Culley, Jette Thykaer, Jens C. Frisvad, Kristian F. Nielsen, Richard Albang, Kaj Albermann, Randy M. Berka, Gerhard H. Braus, Susanna A. Braus-Stromeyer, Luis M. Corrochano, Ziyu Dai, Piet W.M. van Dijck, Gerald Hofmann, Linda L. Lasure, Jon K. Magnuson, Hildegard Menke, Martin Meijer, Susan L. Meijer, Jakob B. Nielsen, Michael L. Nielsen, Albert J.J. van Ooyen, Herman J. Pel, Lars Poulsen, Rob A. Samson, Hein Stam, Adrian Tsang, Johannes M. van den Brink, Alex Atkins, Andrea Aerts, Harris Shapiro, Jasmyn Pangilinan, Asaf Salamov, Yigong Lou, Erika Lindquist, Susan Lucas, Jane Grimwood, Igor V. Grigoriev, Christian P. Kubicek, Diego Martinez, Noël N.M.E. van Peij, Johannes A. Roubos, Jens Nielsen, and Scott E. Baker

Genome Research, June 2011; 21(6): 885–897

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3106321/>

[The art and design of functional metagenomic screens.](#)

Marcus Taupp, Keith Mewis, and Steven J. Hallam.

Current Opinion in Biotechnology, June 2011; 22(3): 465-472.

https://www.researchgate.net/profile/Steven_Hallam/publication/50866906_The_art_and_design_of_functional_metagenomic_screens/links/0c9605383c83a778dc000000.pdf

[A comprehensive characterization of the caspase gene family in insects from the order *Lepidoptera*.](#)

Juliette Courtiade, Yannick Pauchet, Heiko Vogel, and David G. Heckel.

BMC Genomics, 8 July 2011; 12(1): 357, 12 pp.

<http://www.biomedcentral.com/1471-2164/12/357/>

[Switchgrass \(*Panicum virgatum* L.\) polyubiquitin gene \(*PvUbi1* and *PvUbi2*\) promoters for use in plant transformation.](#)

David G.J. Mann, Zachary R. King, Wusheng Liu, Blake L. Joyce, Ryan J. Percifield, Jennifer S. Hawkins, Peter R. LaFayette, Barbara J. Artelt, Jason N. Burris, Mitra Mazarei, Jeffrey L. Bennetzen, Wayne A. Parrott and Charles N. Stewart Jr.

BMC Biotechnology, 11 July 2011; 11(1): 74, 14 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3161867/>

[Methods of identifying stimulants for biogenic methane production from hydrocarbon-bearing formations.](#)

Inventors: Gerardo Vicente Toledo, Toby Howard Richardson, Ulrich Stingl, Eric J. Mathur, J. Craig Venter

United States Patent: US 7977056 B2, Publication Date: 12 July 2011

<http://www.freepatentsonline.com/7977056.html>

[Genes of an otitis media isolate of nontypeable *Haemophilus influenzae*.](#)

Inventors: Lauren O. Bakaletz, Robert Munson, David Dyer
EU Patent Application: EP 2343312 A1, Publication Date: 13 July 2012
<http://www.freepatentsonline.com/EP2343312.html>

[GREPSEQ: An Almost Inexhaustible, Cost-Effective, High-Throughput Protocol for the Generation of Selector Sequences.](#)

Inventors: Fred H. Gage, Jonathan Scolnick, and Gene Wei Ming Yeo.
U.S. Patent Application: 2011/0172105 A1, Publication Date: 14 July 2011;
<https://www.google.com/patents/US20110172105>

[New genomic resources for switchgrass: a BAC library and comparative analysis of homoeologous genomic regions harboring bioenergy traits.](#)

Christopher A. Saski, Zhigang Li, Frank A. Feltus, and Hong Luo.
BMC Genomics, 18 July 2011; 12(1): 369, 12 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3160424/>

[Structural alterations from multiple displacement amplification of a human genome revealed by mate-pair sequencing.](#)

Xiang Jiao, Magnus Rosenlund, Sean D. Hooper, Christian Tellgren-Roth, Liquan He, Yutao Fu, Jonathan Mangion, and Tobias Sjöblom.
PLoS One, 22 July 2011; 6(7): e22250, 6 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3142133/>

[Chemical Evolution of a Bacterium's Genome.](#)

Philippe Marlière, Julien Patrouix, Volker Döring, Piet Herdewijn, Sabine Tricot, Stéphane Cruveiller, Madeleine Bouzon and Rupert Mutzel
Angewandte Chemie, 25 July 2011; 50(31): 7109–7114
http://www.tolonenlab.org/Presentations/MSSB/marliere2011_SI.pdf

[Genomic library construction.](#)

Inventors: George M. Church, Kun Zhang
United States Patent: US 7985546 B2, Publication Date: 26 July 2011
<https://usgene.sequencebase.com/patents/US7985546>

[Sequencing of a QTL-rich region of the *Theobroma cacao* genome using pooled BACs and the identification of trait specific candidate genes.](#)

Frank A. Feltus, Christopher A. Saski, Keithanne Mockaitis, Niina Haiminen, Laxmi Parida, Zachary Smith, James Ford, Margaret E Staton, Stephen P Ficklin, Barbara P Blackmon, Chun-Huai Cheng, Raymond J Schnell, David N Kuhn and Juan-Carlos Motamayor
BMC Genomics, 27 July 2011; 12(1): 379, 16 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3154204/>

[Identification of polymorphic sequences in mixtures of genomic DNA by whole genome sequencing.](#)

Inventor: Richard P. Rava
PCT Patent Application: WO 2011091046 A1, Publication Date: 28 July 2011.

[Identification, Cloning and Characterization of *Dictyoglomus Turgidum* CelA, an Endoglucanase with Cellulase and Mannanase Activity.](#)

Phillip J. Brumm, Spencer Hermanson, Joshua Luedtke and David A. Mead

Journal of Life Sciences, 30 July 2011; 5 (7): 488-496 (open access)

[Micro-collinearity and genome evolution in the vicinity of an ethylene receptor gene of cultivated diploid and allotetraploid coffee species \(*Coffea*\).](#)

Qingyi Yu, Romain Guyot, Alexandre de Kochko, Anne Byers, Rafael Navajas-Pérez, Brennick J. Langston, Christine Dubreuil-Tranchant, Andrew H. Paterson, Valérie Poncet, Chifumi Nagai, and Ray Ming

Plant Journal, July 2011; 67(2): 305-317

http://mendel.ugr.es/~rnavajas/docs/Yu_et_al_2011.pdf

[T4-like genome organization of the *Escherichia coli* O157: H7 lytic phage AR1.](#)

Wei-Chao Liao, Wailap Victor Ng, I-Hsuan Lin, Wan-Jr Syu, Tze-Tze Liu, Chuan-Hsiung Chang.

Journal of Virology, July 2011; 85(13): 6567-6578.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3126482/>

[Mapping Fusarium wilt race 1 resistance genes in cotton by inheritance, QTL and sequencing composition.](#)

Mauricio Ulloa, Congli Wang, Robert B. Hutmacher, Steven D. Wright, R. Michael Davis, Christopher A. Saski, and Philip A. Roberts.

Molecular Genetics and Genomics, July 2011; 286(1): 21-36.

https://www.researchgate.net/profile/Philip_Roberts2/publication/51090021_Mapping_Fusarium_wilt_race_1_resistance_genes_in_cotton_by_inheritance_QTL_and_sequencing_composition/links/09e4150b7f7b60a666000000.pdf

[Method for Constructing a Viral Genomic Library from the State in Which Granuloviruses are Mixed with the Infected Hosts.](#)

Se-Won Kang, Ji-Eun Jeong, Hee-Ju Hwang, Yong Hun Jo, Sang-Haeng Choi, Sung-Hwa Chae, Yeon Soo Han, Hong-Seog Park, Yong Seok Lee

MITA, July 2011; 7: 271-273

[Bioprospecting metagenomics of decaying wood: mining for new glycoside hydrolases.](#)

Luen-Luen Li, Safiyh Taghavi, Sean M. McCorkle, Yian-Biao Zhang, Michael G. Blewitt, Roman Brunecky, William S. Adney, Michael E Himmel, Phillip Brumm, Colleen Drinkwater, David A Mead, Susannah G Tringe and Daniel van der Lelie.

Biotechnology for Biofuels, 4 August 2011; 4(1): 23, pp.1-13

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3171299/>

[Sequencing methods and compositions for prenatal diagnoses.](#)

Inventors: Richard P. Rava, Manjula Chinnappa, David A. Comstock, Gabrielle Heilek, and Brian Kent Rhees.

U.S. Patent Application: 2011/0201507 A1, Publication Date: 18 August 2011;

<https://www.google.com/patents/US20110201507>

[Error-free amplification of DNA for clonal sequencing](#)

Inventors: Cheryl Heiner, Kevin Travers, Stephen Turner

United States Patent: US 8003330 B2, Publication Date: 23 August 2011

<http://www.freepatentsonline.com/y2009/0105094.html>

[DNA coding for polypeptide participating in biosynthesis of pladienolide.](#)

Inventors: Kazuhiro Machida, Akira Arisawa, Susumu Takeda, Masashi Yoshida, Toshio Tsuchida.

United States Patent: US 8008049 B2, Publication Date: 30 August 2011.

<https://www.google.com/patents/US8008049>

The genome of the leaf-cutting ant *Acromyrmex echinator* suggests key adaptations to advanced social life and fungus farming.

Sanne Nygaard, Guojie Zhang, Morten Schiøtt, Cai Li, Yannick Wurm, Haofu Hu, Jiajian Zhou, Lu Ji, Feng Qiu, Morten Rasmussen, Hailin Pan, Frank Hauser, Anders Krogh, Cornelis J.P.

Grimmelikhuijzen, Jun Wang, and Jacobus J. Boomsma

Genome Research, August 2011; 21(8): 1339–1348.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3149500/>

Genomic insights into the origin of parasitism in the emerging plant pathogen *Bursaphelenchus xylophilus*

Taisei Kikuchi, James A. Cotton, Jonathan J. Dalzell, Koichi Hasegawa, Natsumi Kanzaki, Paul McVeigh, Takuma Takanashi, Isheng J. Tsai, Samuel A. Assefa, Peter J. A. Cock, Thomas Dan Otto, Martin Hunt, Adam J. Reid, Alejandro Sanchez-Flores, Kazuko Tsuchihara, Toshiro Yokoi, Mattias C. Larsson, Johji Miwa, Aaron G. Maule, Norio Sahashi, John T. Jones, Matthew Berriman

PLoS Pathogens, 1 September 2011; 7(9): e1002219, 17 pp.

<http://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1002219>

Mitochondrial genomes and Doubly Uniparental Inheritance: new insights from *Musculista senhousia* sex-linked mitochondrial DNAs (*Bivalvia Mytilidae*).

Marco Passamonti, Andrea Ricci, Liliana Milani, and Fabrizio Ghiselli.

BMC Genomics, 6 September 2011; 12(1): 442, 19 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3176263/>

Novel sequences of *Brachyspira*, immunogenic compositions, methods for preparation and use thereof.

Assignee: Murdoch University, Australia

EU Patent Application: EP 2363407 A1, Publication Date: 7 September 2011

<http://www.freepatentsonline.com/EP2363407.html>

Loss of different inverted repeat copies from the chloroplast genomes of Pinaceae and cupressophytes and influence of heterotachy on the evaluation of gymnosperm phylogeny.

Chung-Shien Wu, Ya-Nan Wang, Chi-Yao Hsu, Ching-Ping Lin, and Shu-Miaw Chaw.

Genome Biology and Evolution, 19 September 2011; 3: 1284-1295, 12 pp.

<http://gbe.oxfordjournals.org/content/3/1284.full>

Identification of polymorphic sequences in mixtures of genomic DNA by whole genome sequencing.

Inventor: Richard P. Rava,

US Patent Application: 2011/0230358 A1, Publication Date: 22 September 2011.

<https://www.google.com/patents/US20110230358>

Metagenomic contrasts of viruses in soil and aquatic environments.

K. Eric Wommack, Sharath Srinivasiah, M. Liles, Jaysheel Bhavsar, Shellie Bench, Kurt E. Williamson, and Shawn W. Polson.

In: *Handbook of Molecular Microbial Ecology II: Metagenomics in Different Habitats*, 27 September 2011; Frans J. de Bruijn ed., John E. Wiley & Sons, New York, pp.25-36

Development of physical cytogenetic maps for bananas and plantains.

E. Hribova, M. Dolezelova, P. Nemcova, J. Cizkova, L. Schillerova, and J. Dolozel.

In: *Physical Mapping Technologies for the Identification and Characterization of Mutated Genes to Crop Quality*: IAEA, Vienna, September 2011; pp. 61-70.

https://www.researchgate.net/profile/Mauro_Grabiele/publication/261179467_Physical_Mapping_Technologies_for_the_Identification_and_Characterization_of_Mutated_Genes_to_Crop_Quality/links/0046353383cc7b3f91000000.pdf#page=70

Investigation of genome structure of a cinnamyl alcohol dehydrogenase locus in a basal angiosperm hardwood species, *Liriodendron tulipifera* L., reveals low synteny.

Yi Xu, Scott E. Schlarbaum, and Haiying Liang.

Journal of Systematics and Evolution, September 2011; 49(5): 396-405.

Methods for Detection of Methyl-CpG Dinucleotides.

Inventor: John J. Dunn

US Patent Application: 2011/0245465 A1, Publication Date: 6 October 2011

Array CGH phylogeny: how accurate are comparative genomic hybridization-based trees?

Luz Gilbert, Takao Kasuga, N. Louise Glass, and John Taylor.

BMC Genomics, 6 October 2011; 12(1): 487, 14 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3206521/>

The complete genome sequence of *Thermoproteus tenax*: a physiologically versatile member of the *Crenarchaeota*.

Bettina Siebers, Melanie Zaparty, Guenter Raddatz, Britta Tjaden, Sonja-Verena Albers, Steve D. Bell, Fabian Blombach, Arnulf Kletzin, Nikos Kyrpides, Christa Lanz, Andre' Plagens, Markus Rampp, Andrea Rosinus, Mathias von Jan, Kira S. Makarova, Hans-Peter Klenk, Stephan C. Schuster, Reinhard Hensel

PLoS One, 7 October 2011; 6(10): e24222, 13 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3189178/>

Ten new complete mitochondrial genomes of pulmonates (*Mollusca: Gastropoda*) and their impact on phylogenetic relationships.

Tracy White, Michele Conrad, Roger Tseng, Shaina Balayan, Rosemary Golding, António de Frias Martins, and Benoît Dayrat.

BMC Evolutionary Biology, 10 October 2011; 11(1): 295, 15 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3198971/>

Bioinformatic analysis of the *Acinetobacter baumannii* phage AB1 genome.

Peizhen Li, Biaobang Chen, Zhijian Song, Yulong Song, Yanmei Yang, Ping Ma, Huifeng Wang, Jun Ying, Ping Ren, Lei Yang, Guohui Gao, Shouguang Jin, Qiyu Bao, Hongjiang Yang

Gene, 10 October 2011; 507(2): 125-134

Microbial polynucleotides expressed during infection of a host.

Inventors: Martin Handfield, Ann Progulske-Fox, L. Jeannine Brady, and Jeffrey D. Hillman.

United States Patent: US 8034571 B1, Publication Date: 11 October 2011;

<https://www.google.com/patents/US8034571>

Polynucleotides for the amplification and analysis of whole genome and whole transcriptome libraries generated by a DNA polymerization process.

Inventors: Emmanuel Kamberov, Tong Sun, Eric Bruening, Jonathon H. Pinter, Irina Sleptsova, Takao Kurihara, Vladimir L. Makarov

EU Patent Application: EP 2011/0011482 A1, Publication Date: 12 October 2011

<http://www.freepatentsonline.com/EP2374900.html>

Bacterial Endophytes of Rice - Their Diversity, Characteristics and Perspectives

Pablo Rodrigo Hardoim

PhD Theses, University of Groningen, The Netherlands, 14 October 2011, pp. 1-219

Thermostable viral polymerases and methods of use

Inventors: Thomas W. Schoenfeld, Vinay K. Dhodda, Robert A. Difrancesco, David A. Mead

EU Patent Application: EP 2377929 A1, Publication Date: 19 October 2011

The draft genome and transcriptome of *Cannabis sativa*.

Harm van Bakel, Jake M. Stout, Atina G. Cote, Carling M. Tallon, Andrew G. Sharpe, Timothy R. Hughes, and Jonathan E. Page.

Genome Biology, 20 October 2011; 12(10): R102, 18 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3359589/>

Methods and compositions for generating and amplifying DNA libraries for sensitive detection and analysis of DNA methylation.

Inventors: Vladimir L. Makarov, Emmanuel Kamberov, Tong Sun, Jonathon H. Pinter, Brendan J. Tarrier, Eric E. Bruening, Takao Kurihara, Tim Tesmer, and Joseph M. M'mwirichia.

EU Patent Application: EP 2380993 A1, Publication Date: 26 October 2011.

<http://www.freepatentsonline.com/EP2380993A1.html>

Lytic myophage Abp53 encodes several proteins similar to those encoded by host *Acinetobacter baumannii* and phage phiK02.

Chia-Ni Lee, Tsai-Tien Tseng, Juey-Wen Lin, Yung-Chieh Fu, Shu-Fen Weng, Yi-Hsiung Tseng. *Applied and Environmental Microbiology*, October 2011; 77(19): 6755-6762.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3187083/>

Genomes and Characterization of Phages Bcep22 and BcepIL02, Founders of a Novel Phage Type in *Burkholderia cenocepacia*.

Jason J. Gill, Elizabeth J. Summer, William K. Russell, Stephanie M. Cologna, Thomas M. Carlile, Alicia C. Fuller, Kate Kitsopoulos, Leslie M. Mebane, Brandi N. Parkinson, David Sullivan, Lisa A. Carmody, Carlos F. Gonzalez, John J. LiPuma, and Ry Young

Journal Bacteriology, October 2011; 193(19): 5300–5313.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3187461/>

Experimental mapping of soluble protein domains using a hierarchical approach.

Jean-Denis Pedelacq, Hau B. Nguyen, Stephanie Cabantous, Brian L. Mark, Pawel Listwan, Carolyn Bell, Natasha Friedland, Meghan Lockard, Alexandre Faille, Lionel Mourey, Thomas C. Terwilliger and Geoffrey S. Waldo.

Nucleic Acids Research, October 2011; 39(18): e125, 11 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3185438/>

[A brief utilization report on the Illumina HiSeq 2000 sequencer.](#)

Lin Liu, Ni Hu, Bo Wang, Minfeng Chen, Juan Wang, Zhijian Tian, Yimin He, and Danni Lin.
Mycology, October 2011; 2(3): 169-191.
<http://www.tandfonline.com/doi/full/10.1080/21501203.2011.615871>

[Functional metagenomic analysis of carbohydrate degrading enzymes from the human gut microbiota.](#)

Anna Maria Szczepańska.
PhD Theses, October 2011; University of East Anglia, 251 pp.
<https://ueaeprints.uea.ac.uk/47983/1/2011SzczepanskaAMPhD.pdf>

[Targeted isolation of cloned genomic regions by recombining for haplotype phasing and isogenic targeting.](#)

Marta Nedelkova, Marcello Maresca, Jun Fu, Maria Rostovskaya, Ramu Chenna, Christian Thiede, Konstantinos Anastasiadis, Mihail Sarov, and A. Francis Stewart.
Nucleic Acids Research, 1 November 2011; 39(20): e137, 11 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3203589/>

[To be or not to be convergent in salicin-based defence in chrysomeline leaf beetle larvae: evidence from *Phratora vitellinae* salicyl alcohol oxidase.](#)

Roy Kirsch, Heiko Vogel, Alexander Muck, Andreas Vilcinskas, Jacques M. Pasteels, Wilhelm Boland.
Proceedings of the Royal Society B: Biological Sciences, 7 November 2011; 278(1722): 3225-3232.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3169026/>

[Methods for indexing samples and sequencing multiple polynucleotide templates.](#)

Inventors: Helen Bignell, Louise Fraser, Niall Anthony Gormley
United States Patent: US 8053192 B2, Publication Date: 8 November 2011
<http://www.patentstorm.us/patents/8053192.html>

[Metagenomic contrasts of viruses in soil and aquatic environments.](#)

K. Eric Wommack, Sharath Srinivasiah, M. Liles, Jaysheel Bhavsar, Shellie Bench, Kurt E. Williamson, and Shawn W. Polson.
In: *Handbook of Molecular Microbial Ecology II: Metagenomics in Different Habitats*. Frans J. deBruijn ed., New York: John E. Wiley & Sons (10 November 2011), Ch. 4, pp. 25-36.

[Assembly of Viral Metagenomes from Yellowstone Hot Springs Reveals Phylogenetic Relationships and Host Co-Evolution.](#)

Thomas W. Schoenfeld, and David Mead.
In: *Handbook of Molecular Microbial Ecology II: Metagenomics in Different Habitats*. Frans J. deBruijn ed., New York: John E. Wiley & Sons (10 November 2011), Ch. 6, pp.45-61.

[Whole genome resequencing of black Angus and Holstein cattle for SNP and CNV discovery.](#)

Paul Stothard, Jung-Woo Choi, Urmila Basu, Jennifer M. Sumner-Thomson, Yan Meng, Xiaoping Liao, and Stephen S. Moore.
BMC Genomics, 15 November 2011; 12(1): 559, pp. 1-14
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3229636/>

[High throughput paired-end sequencing of large-insert clone libraries.](#)

Inventors: Andreas Gnirke, Robert Nicol, Louise Williams, Maura T. Costello, Scott Steelman

PCT Patent Application: WO 2011/143231 A2, Publication Date: 17 November 2011

<http://www.google.com/patents/WO2011143231A2>

Methods of identifying stimulants for methane production from hydrocarbon-bearing formations.

Inventors: Gerardo Vicente Toledo, Toby Howard Richardson, Ulrich Stingl, Eric J. Mathur, J. Craig Venter

US Patent Application: 2011/0277991 A1, Publication Date: 17 November 2011

Diagnostic sequencing with small nucleic acid circles.

Inventors: Cheryl Heiner, Congcong Ma, Geoff Otto, Kevin Travers, Stephen Turner

US Patent Application: 2011/0281768 A1, Publication Date: 17 November 2011

Whole genome sequencing of environmental *Vibrio cholerae* O1 from 10 nanograms of DNA using short reads.

Pérez Chaparro, Paula Juliana, John Anthony McCulloch, Louise Teixeira Cerdeira, Arwa Al-Dilaimi, Lena Lillian Canto de Sá, Rodrigo de Oliveira, Andreas Tauch, Vasco Ariston de Carvalho Azevedo, Maria Paula Cruz Schneider, and Artur Luiz da Costa da Silva.

Journal of Microbiological Methods, November 2011; 87(2): 208-212.

<http://www.sciencedirect.com/science/article/pii/S0167701211002909>

Adaptation of the CHARM DNA methylation platform for the rat genome reveals novel brain region-specific differences

Richard S Lee, Kellie LK Tamashiro, Martin J Aryee, Peter Murakami, Fayaz Seifuddin, Brian Herb, Yuqing Huo, Michael Rongione, Andrew P Feinberg, Timothy H Moran, and James B Potash

Epigenetics, November 2011; 6(11): 1378-1390.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3242812/>

The complete mitochondrial genome sequence of *Euphausia pacifica* (Malacostraca: Euphausiacea) reveals a novel gene order and unusual tandem repeats.

Xin Shen, Haiqing Wang, Minxiao Wang, and Bin Liu.

Genome, November 2011; 54(11): 911-922.

https://www.researchgate.net/profile/Xin_Shen2/publication/51739944_The_complete_mitochondrial_genome_sequence_of_Euphausia_pacifica_%28Malacostraca_Euphausiacea%29_reveals_a_novel_gene_order_and_unusual_tandem_repeats/links/548a70710cf225bf669c7d1e.pdf

Nucleic acid interaction analysis.

Inventors: Yijun Ruan, Melissa Jane Fullwood, Chia Lin Wei

United States Patent: US 8071296 B2, Publication Date: 6 December 2011

<https://www.google.com/patents/US8071296>

Methods for producing and using stem-loop oligonucleotides.

Inventors: Emmanuel Kamberov, Vladimir L. Makarov, Brendan J. Tarrier

United States Patent: US 8071312 B2, Publication Date: 6 December 2011

The Enhancer of split complex arose prior to the diversification of schizophoran flies and is strongly conserved between *Drosophila* and stalk-eyed flies (*Diopsidae*).

Richard H. Baker, Jennifer V. Kuehl, and Gerald S. Wilkinson.

BMC Evolutionary Biology, 8 December 2011; 11(1): 354, 15 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3261227/>

[Design of a scalable DNA shearing system using phased-array ultrasonic transducer.](#)

Kapil Dev, Smriti Sharma, Vibhu Vivek, Babur Hadimioglu, and Yehia Massoud.

In: *Electronics, Circuits and Systems (ICECS)*, 11-14 December 2011; Beirut, 18th IEEE International Conference, IEEE, pp. 129-132.

[Thermostable viral polymerases and methods of use.](#)

Inventors: Thomas W. Schoenfeld, Vinay K. Dhodda, Robert A. Difrancesco, David A. Mead

European Patent: EP1934339 B1, Publication Date: 14 December 2011

[DNA coding for polypeptide participating in biosynthesis of pladienolide](#)

Inventors: Kazuhiro Machida; Arisawa, Akira; Takeda, Susumu; Yoshida, Masashi; Tsuchida, Toshio

EU Patent Application: EP 20050766205, Publication Date: 21 December 2011

[Azospirillum genomes reveal transition of bacteria from aquatic to terrestrial environments.](#)

Florence Wisniewski-Dyé, Kirill Borziak, Gurusahai Khalsa-Moyers, Gladys Alexandre, Leonid O. Sukharnikov, Kristin Wuichet, Gregory B. Hurst, W. Hayes McDonald, Jon S. Robertson, Valérie Barbe, Alexandra Calteau, Zoé Rouy, Sophie Mangenot, Claire Prigent-Combaret, Philippe Normand, Mickaël Boyer, Patricia Siguier, Yves Dessaux, Claudine Elmerich, Guy Condemine, Ganisan Krishnen, Ivan Kennedy, Andrew H. Paterson, Victor González, Patrick Mavingui, Igor B. Zhulin.

PLoS Genetics, 22 December 2011; 7(12): e1002430, 13 pp.

<http://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1002430>

[Characterization and Quantitation of a Novel \$\beta\$ -Lactamase Gene Found in a Wastewater Treatment Facility and the Surrounding Coastal Ecosystem.](#)

Miguel Uyaguari, Erin B. Fichot, Geoffrey Scott, and R. Sean Norman.

Applied and Environmental Microbiology, December 2011; 77(23): 8226-8233.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3233035/>

[Evaluation and adaptation of molecular approaches for detection and characterization of viruses of the respiratory tract.](#)

Shahidul Kabir

PhD Theses, University of Westminster, London, December 2011, 291 pp.

http://westminsterresearch.wmin.ac.uk/13688/1/Md_Shahidul_Kabir_2011.pdf

[Development of tools for the preparation of genomic libraries for next-generation sequencing.](#)

Aric Joneja

PhD Theses, 2011; UCSD University, San Diego, CA, 154 pp.

<http://escholarship.org/uc/item/3cz5v7r3#page-18>

[Genomics and Evolution of Alkaliphilic *Bacillus* Species.](#)

Hideto Takami

In: *Extremophiles Handbook*, Horikoshi, K.; Antranikian, G.; Bull, A.T.; Robb, F.T.; Stetter, K.O. (Eds.), Springer-Verlag, Heidelberg, 2011; pp. 183-211

https://www.researchgate.net/profile/Hideto_Takami/publication/278698208_Genomics_and_Evolution_of_Alkaliphilic_Bacillus_Species/links/55b620c008ae092e9655b978.pdf

[Chloroplast genome sequence of the moss *Tortula ruralis*: gene content, polymorphism, and structural arrangement relative to other green plant chloroplast genomes](#)

Melvin J. Oliver, Andrew G. Murdock, Brent D. Mishler, Jennifer V. Kuehl, Jeffrey L. Boore, Dina F. Mandoli, Karin DE Everett, Paul G. Wolf, Aaron M. Duffy and Kenneth G. Karol.
In: *Phytopathology in Plants*, 2011; Philip Stewart, Sabine Globig eds. Apple Academic Press, Toronto, New Jersey pp. 278-292.

[Accessing the Transcriptome: How to Normalize mRNA Pools.](#)

Heiko Vogel, Christopher W. Wheat

Methods in Molecular Biology, 2011; 772 (Molecular Methods for Evolutionary Genetics): 105-128

[Production of Fosmid Genomic Libraries Optimized for Liquid Culture Recombineering and Cross-Species Transgenesis.](#)

Radoslaw Kamil Ejsmont, Maria Bogdanzaliewa, Kamil Andrzej Lipinski, and Pavel Tomancak.

Methods in Molecular Biology, 2011; 772 (Molecular Methods for Evolutionary Genetics): 423-443.

[NxSeq™ DNA Sample Prep Kits.](#)

Lucigen Inc., 2011; <http://lucigen.com/store/docs/manuals/MA134-NxSeq-DNA-Prep-Kit.pdf>

2010.

[High divergence across the whole mitochondrial genome in the “pan-Antarctic” springtail *Friesea grisea*: Evidence for cryptic species?](#)

Giulia Torricelli, Antonio Carapelli, Peter Convey, Francesco Nardi, Jeffrey Boore, Francesco Frati
Gene, 1 January 2010, 449(1-2): 30-40.

[https://www.researchgate.net/profile/Antonio_Carapelli/publication/26839579_Torricelli_G_Carapelli_A_Convey_P_Nardi_F_Boore_JL_Frati_F_High_divergence_across_the_whole_mitochondrial_genome_in_the_pan-](https://www.researchgate.net/profile/Antonio_Carapelli/publication/26839579_Torricelli_G_Carapelli_A_Convey_P_Nardi_F_Boore_JL_Frati_F_High_divergence_across_the_whole_mitochondrial_genome_in_the_pan-Antarctic_springtail_Friesea_grisea_evidence_for_cryptic_species_Gene/links/552e2b1a0cf2d4950717b73f.pdf)

[Antarctic_springtail_Friesea_grisea_evidence_for_cryptic_species_Gene/links/552e2b1a0cf2d4950717b73f.pdf](https://www.researchgate.net/profile/Antonio_Carapelli/publication/26839579_Torricelli_G_Carapelli_A_Convey_P_Nardi_F_Boore_JL_Frati_F_High_divergence_across_the_whole_mitochondrial_genome_in_the_pan-Antarctic_springtail_Friesea_grisea_evidence_for_cryptic_species_Gene/links/552e2b1a0cf2d4950717b73f.pdf)

[Sequence analysis of pKF3-70 in *Klebsiella pneumoniae*: probable origin from R100-like plasmid of *Escherichia coli*.](#)

Huiguang Yi, Yali Xi, Jing Liu, Junrong Wang, Jinyu Wu, Teng Xu, Wei Chen, Biaobang Chen, Meili Lin, Huan Wang, Mingming Zhou, Jinsong Li, Zuyuan Xu, Shouguang Jin, Qiyu Bao.

PLoS One, 6 January 2010; 5(1): e8601, 9 pp.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0008601>

[Comparative metagenomics and population dynamics of the gut microbiota in mother and infant.](#)

Parag A. Vaishampayan, Jennifer V. Kuehl, Jeffrey L. Froula, Jenna L. Morgan, Howard Ochman, and M. Pilar Francino.

Genome Biology and Evolution, 6 January 2010; 2: 53-66.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2839348/>

[In vivo induced genes of mycobacterium tuberculosis.](#)

Inventor: Jeffrey D. Hillman

US Patent Application: 2010/0008922 A1, Publication Date: 14 January 2010

[Functional and Evolutionary Insights from the Genomes of Three Parasitoid *Nasonia* Species.](#)

John H. Werren, Stephen Richards, Christopher A. Desjardins, Oliver Niehuis, Jürgen Gadau, John K. Colbourne, The *Nasonia* Genome Working Group (Werren JH, Richards S, Desjardins CA, Niehuis O, Gadau J, Colbourne JK, Beukeboom LW, Desplan C, Elsik CG, Grimmelikhuijzen CJ, Kitts P, Lynch JA, Murphy T, Oliveira DC, Smith CD, van de Zande L, Worley KC, Zdobnov EM, Aerts M, Albert S, Anaya VH, Anzola JM, Barchuk AR, Behura SK, Bera AN, Berenbaum MR, Bertossa RC, Bitondi MM, Bordenstein SR, Bork P, Bornberg-Bauer E, Brunain M, Cazzamali G, Chaboub L, Chacko J, Chavez D, Childers CP, Choi JH, Clark ME, Claudianos C, Clinton RA, Cree AG, Cristino AS, Dang PM, Darby AC, de Graaf DC, Devreese B, Dinh HH, Edwards R, Elango N, Elhaik E, Ermolaeva O, Evans JD, Foret S, Fowler GR, Gerlach D, Gibson JD, Gilbert DG, Graur D, Gründer S, Hagen DE, Han Y, Hauser F, Hultmark D, Hunter HC 4th, Hurst GD, Jhangian SN, Jiang H, Johnson RM, Jones AK, Junier T, Kadowaki T, Kamping A, Kapustin Y, Kechavarzi B, Kim J, Kim J, Kiryutin B, Koevoets T, Kovar CL, Kriventseva EV, Kucharski R, Lee H, Lee SL, Lees K, Lewis LR, Loehlin DW, Logsdon JM Jr, Lopez JA, Lozado RJ, Maglott D, Maleszka R, Mayampurath A, Mazur DJ, McClure MA, Moore AD, Morgan MB, Muller J, Munoz-Torres MC, Muzny DM, Nazareth LV, Neupert S, Nguyen NB, Nunes FM, Oakeshott JG, Okwuonu GO, Pannebakker BA, Pejaver VR, Peng Z, Pratt SC, Predel R, Pu LL, Ranson H, Raychoudhury R, Rechtsteiner A, Reese JT, Reid JG, Riddle M, Robertson HM, Romero-Severson J, Rosenberg M, Sackton TB, Sattelle DB, Schlüns H, Schmitt T, Schneider M, Schüler A, Schurko AM, Shuker DM, Simões ZL, Sinha S, Smith Z, Solovyev V, Souvorov A, Springauf A, Stafflinger E, Stage DE, Stanke M, Tanaka Y, Telschow A, Trent C, Vattathil S, Verhulst EC, Viljakainen L, Wanner KW, Waterhouse RM, Whitfield JB, Wilkes TE, Williamson M, Willis JH, Wolschin F, Wyder S, Yamada T, Yi SV, Zecher CN, Zhang L, Gibbs RA.)
Science, 15 January 2010; 327(5963), 343-348

[U87MG Decoded: The Genomic Sequence of a Cytogenetically Aberrant Human Cancer Cell Line.](#)

Michael James Clark, Nils Homer, Brian D. O'Connor, Zugen Chen, Ascia Eskin, Hane Lee, Barry Merriman, and Stanley F. Nelson
PLoS Genetics, 29 January 2010; 6(1): e1000832, 16 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2813426/>

[Functional viral metagenomics and the next generation of molecular tools.](#)

Thomas Schoenfeld, Mark Liles, K. Eric Wommack, Shawn W Polson, Ronald Godiska, David Mead
Trends in Microbiology, January 2010; 18(1): 20-29.

[Complete genome sequence of *Anaplasma marginale* subsp. *centrale*.](#)

David R. Herndon, Guy H. Palmer, Varda Shkap, Donald P. Knowles, and Kelly A. Brayton.
Journal of Bacteriology, January 2010; 192(1): 379-380.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2798241/pdf/1330-09.pdf>

[Complete nucleotide sequence and organization of the mitogenome of endangered *Eumenis autonoe* \(Lepidoptera: Nymphalidae\).](#)

Min Jee Kim, Xinlong Wan, Ki-Gyoung Kim, Jae Sam Hwang and Iksoo Kim
African Journal of Biotechnology, 1 February 2010; 9(5): 735-754.
<http://www.ajol.info/index.php/ajb/article/view/78110/68497>

[Systematic overrepresentation of DNA termini and underrepresentation of subterminal regions among sequencing templates prepared from hydrodynamically sheared linear DNA molecules.](#)

Sherri L Schwartz, Mark L Farman

BMC Genomics, 2 February 2010; 11: 87, 12 pp.
<http://www.biomedcentral.com/1471-2164/11/87>

DNA amplification and sequencing using DNA molecules generated by random fragmentation.

Inventors: Vladimir L. Makarov; Sleptsova, Irina; Kamberov, Emmanuel; Bruening, Eric
United States Patent: US 7655791 B2, Publication Date: 2 February 2010
<https://www.google.com/patents/US7655791>

Analysis of High-Throughput Sequencing and Annotation Strategies for Phage Genomes.

Matthew R. Henn, Matthew B. Sullivan, Nicole Stange-Thomann, Marcia S. Osburne, Aaron M. Berlin, Libusha Kelly, Chandri Yandava, Chinnappa Kodira, Qiangdong Zeng, Michael Weiland, Todd Sparrow, Sakina Saif, Georgia Giannoukos, Sarah K. Young, Chad Nusbaum, Bruce W. Birren, and Sallie W. Chisholm
PLoS One, 5 February 2010; 5(2): e9083, 12 pp.
<http://www.plosone.org/article/info:doi/10.1371/journal.pone.0009083>

β -Agarase isolated from *Thalassomonas agarivorans*, preparation process and uses thereof.

Inventors: Shu-shan Liang; Chen, Yi-hong; Liaw, Li-ling
United States Patent: US 7662606 B1, Publication Date: 16 February 2010
<https://www.google.com/patents/US7662606>

Tumor Transcriptome Sequencing Reveals Allelic Expression Imbalances Associated with Copy Number Alterations.

Brian B. Tuch, Rebecca R. Laborde, Xing Xu, Jian Gu, Christina B. Chung, Cinna K. Monighetti, Sarah J. Stanley, Kerry D. Olsen, Jan L. Kasperbauer, Eric J. Moore, Adam J. Broome, Ruoying Tan, Pius M. Brzoska, Matthew W. Muller, Asim S. Siddiqui, Yan W. Asmann, Yongming Sun, Scott Kuersten, Melissa A. Barker, Francisco M. De La Vega, and David I. Smith
PLoS One, 19 February 2010; 5(2): e9317, 17 pp.
<http://www.readcube.com/articles/10.1371/journal.pone.0009317?locale=en>

Methods to stimulate biogenic methane production from hydrocarbon-bearing formations.

Inventors: Gerardo Vicente Toledo; Richardson, Toby Howard; Stingl, Ulrich; Mathur, Eric J.; Venter, Craig J.
US Patent Application: 2010/0047793 A1, Publication Date: 25 February 2010

Chloroplast genome sequence of the moss *Tortula ruralis*: gene content, polymorphism, and structural arrangement relative to other green plant chloroplast genomes.

Melvin J Oliver, Andrew G Murdock, Brent D Mishler, Jennifer V Kuehl, Jeffrey L Boore, Dina F Mandoli, Karin DE Everett, Paul G Wolf, Aaron M Duffy, Kenneth G Karol
BMC Genomics, 27 February 2010, 11: 143, 8 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2841679/>

High-resolution mapping of the *Brassica napus* *Rfp* restorer locus using *Arabidopsis*-derived molecular markers.

Nataša Formanová, Rachel Stollar, Rachel Geddy, Laetitia Mahé, Martin Laforest, Benoit S. Landry and Gregory G. Brown
TAG Theoretical and Applied Genetics, February 2010; 120(4): 843-851.

Implications of the Plastid Genome Sequence of *Typha* (Typhaceae, Poales) for Understanding Genome Evolution in Poaceae.

Mary M. Guisinger, Timothy W. Chumley, Jennifer V. Kuehl, Jeffrey L. Boore, Robert K. Jansen
Journal of Molecular Evolution, February 2010; 70(2): 149-166
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2825539/>

Screening method for genes of brewing yeast.

Inventors: Yoshihiro Nakao, Norihisa Nakamura, Yukiko Kodama, Tomoko Fujimura, Toshihiko Ashikari

United States Patent: US 7670828 B2, Publication Date: 2 March 2010

<http://www.google.com/patents/US7670828>

Metagenomic Analysis of Microbial Symbionts in a Gutless Worm.

Tanja Woyke, Hanno Teeling, Natalia N. Ivanova, Marcel Huntemann, Michael Richter, Frank Oliver Gloeckner, Dario Boffelli, Iain J. Anderson, Kerrie W. Barry, Harris J. Shapiro, Ernest Szeto, Nikos C. Kyrpides, Marc Mussmann, Rudolf Amann, Claudia Bergin, Caroline Ruehland, Edward M.

Rubin & Nicole Dubilier

Lawrence Berkeley National Laboratory, 30 March 2010; LBNL Paper LBNL-2723E

<http://www.escholarship.org/uc/item/42w8m413>

Genomic DNA library of *Veillonella parvula* H2 in the rumen.

Liu Guo-Wen, Zhang Zhi-Gang, Yang Wen-Yan, Yang Lian-Yu, and Wang Zhe

Bull Veterinary Institute in Pulawy, March 2010; 54(1): 15-17

<http://www.piwet.pulawy.pl/bulletin/images/stories/pdf/20101/20101015018.pdf>

Strategy for Identification of Novel Fungal and Bacterial Glycosyl Hydrolase Hybrid Mixtures that can Efficiently Saccharify Pretreated Lignocellulosic Biomass.

Dahai Gao, Shishir P. S. Chundawat, Tongjun Liu, Spencer Hermanson, Krishne Gowda, Phillip Brumm, Bruce E. Dale and Venkatesh Balan

BioEnergy Research, March 2010; 3(1): 67-81

https://www.researchgate.net/profile/Tongjun_Liu/publication/225758456_Strategy_for_Identification_of_Novel_Fungal_and_Bacterial_Glycosyl_Hydrolase_Hybrid_Mixtures_that_can_Efficiently_Saccharify_Pretreated_Lignocellulosic_Biomass/links/0c960529cb52e74693000000.pdf

National laboratory for scientific computation - LNCC, Laboratory for Bioinformatics

Ana Tereza Vasconcelos.

EMBNet.news, March 2010; 15(4): 25-28

http://www.no.embnet.org/embnet_news_15_4-high.pdf

Methods for Detection of Methyl-CpG Dinucleotides.

Inventor: John J. Dunn

US Patent Application: 2010/0081174 A1, Publication Date: 1 April 2010

Sequencing and Genetic Variation of Multidrug Resistance Plasmids in *Klebsiella pneumoniae*.

Fangqing Zhao, Jie Bai, Jinyu Wu, Jing Liu, Mingming Zhou, Shilin Xia, Shanjin Wang, Xiaoding Yao, Huiguang Yi, Meili Lin, Shengjie Gao, Tieli Zhou, Zuyuan Xu, Yuxin Niu, and Qiyu Bao
PLoS One, 12 April 2010; 5(4): e10141, 9 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2853573/>

Helicase-assisted sequencing with molecular beacons.

Inventor: Adrian Fehr

U.S. Patent Application: 2010/0092960 A1, Publication Date: 15 April 2010;
<https://www.google.com/patents/US20100092960>

Metagenomic Sequencing of an *In Vitro*-Simulated Microbial Community.

Jenna L. Morgan, Aaron E. Darling, Jonathan A. Eisen
PLoS One, 16 April 2010; 5(4): e10209, 10 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2855710/>

Using comparative genomic hybridization to survey genomic sequence divergence across species: a proof-of-concept from *Drosophila*.

Suzy CP Renn, Heather E Machado, Albyn Jones, Kosha Soneji, Rob J Kulathinal, Hans A Hofmann
BMC Genomics, 29 April 2010; 11: 271, 12 pp.
<http://bmcbgenomics.biomedcentral.com/articles/10.1186/1471-2164-11-271>

Linear plasmid vector for cloning of repetitive or unstable sequences in *Escherichia coli*.

Ronald Godiska, David Mead, Vinay Dhodda, Chengcang Wu, Rebecca Hochstein, Attila Karsi, Karen Usdin, Ali Entezam and Nikolai Ravin
Nucleic Acids Research, April 2010; 38(6): e88, 9 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2847241/>

Brazilian EMBnet Node: progress Report

Ana Tereza Vasconcelos, Wim M. Degraeve, Goran Neshich
EMBnet.news, April 2010; 15(4): 25-31
<http://journal.embnet.org/index.php/embnetnews/article/view/76/178>

Comprehensive High-Throughput Arrays for Relative Methylation (CHARM)

Christine Ladd-Acosta, Martin J. Aryee, Jared M. Ordway, Andrew P. Feinberg
Current Protocols Human Genetics, April 2010; John Wiley & Sons, Inc., 65:20.0.1-20.0.19. (HS+)

Applied Biosystems SOLiD™ 4 System. Library Preparation Guide

ABI Manual.
April 2010.

Use of *In Vivo*-Induced Antigen Technology (IVIAT) to Identify Virulence Factors of *Porphyromonas gingivalis*.

Shannon M. Wallet, Jin Chung and Martin Handfield
Methods in Molecular Biology, Spring 2010; 666(2): 181-195

Computerprogramme zur Modellierung genregulatorischer Netzwerke.

Hendrik Hache, and Christoph Wierling.
Laborwelt, Spring 2010; 11(1): 31-32.
http://pubman.mpg.de/pubman/item/escidoc:1583998/component/escidoc:1583997/LW2010_01.pdf

Integrated DNA preparation for pyrosequencer onto a polymer microfluidic device.

P. Khuntontong, C. H. Kua, M. Gong, S. H. I. Foo, AR Abdur Rahman, S. Goel, and Z. P. Wang.
Nanotech, 2010; 3: 145-148
<http://www.nsti.org/publications/Nanotech/2010/pdf/597.pdf>

Recent advances in DNA sequencing methods – general principles of sample preparation.

Sten Linnarsson

Experimental Cell Research, 1 May 2010; 316(8): 1339-1343

<http://linnarssonlab.org/pdf/Experimental%20Cell%20Research%202010.pdf>

[A critical assessment of cross-species detection of gene duplicates using comparative genomic hybridization.](#)

Heather E Machado, Suzy CP Renn

BMC Genomics, 13 May 2010; 11: 304, 9 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2876127/>

[Methylation analysis of mate pairs.](#)

Inventors: Kevin McKernan, Benjamin Schroeder, and Victoria Boyd.

US Patent Application: 2010/0120034 A1, Publication Date: 13 May 2010;

<https://www.google.com/patents/US20100120034>

[Solid phase technique for selectively isolating nucleic acids.](#)

Inventors: Kevin McKernan, Paul McEwan, and William Morris.

US Patent Application: 2010/0121044 A1, Publication Date: 13 May 2010;

<https://www.google.com/patents/US20100121044>

[The Mating Type Locus \(*MAT*\) and Sexual Reproduction of *Cryptococcus heveanensis*: Insights into the Evolution of Sex and Sex-Determining Chromosomal Regions in Fungi.](#)

Banu Metin, Keisha Findley, and Joseph Heitman

PLoS Genetics, 20 May 2010; 6(5): e1000961, 19 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2873909/>

[Comparison of homoeolocus organisation in paired BAC clones from white clover \(*Trifolium repens* L.\) and microcolinearity with model legume species.](#)

Melanie L Hand, Noel OI Cogan, Timothy I Sawbridge, German C Spangenberg, John W Forster

BMC Plant Biology, 24 May 2010; 10: 94, 14 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3095360/>

[Vectors, kits and methods for cloning DNA.](#)

Inventors: David A. Mead, Ronald Godiska, Thomas W. Schoenfeld, and Spencer Hermanson.

United States Patent: US 7723103 B2, Publication Date: 25 May 2010.

<https://www.google.com/patents/US7723103>

[Sequencing, annotation and comparative genome analysis of the gerbil-adapted *Helicobacter pylori* strain B8.](#)

Max Farnbacher, Thomas Jahns, Dirk Willrodt, Rolf Daniel, Rainer Haas, Alexander Goesmann, Stefan Kurtz and Gabriele Rieder

BMC Genomics, 27 May 2010; 11: 335, 22 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3091624/>

[A highly conserved gene island of three genes on chromosome 3B of hexaploid wheat: diverse gene function and genomic structure maintained in a tightly linked block.](#)

James Breen, Thomas Wicker, Xiuying Kong, Juncheng Zhang, Wujun Ma, Etienne Paux, Catherine Feuillet, Rudi Appels, and Matthew Bellgard.

BMC Plant Biology, 27 May 2010; 10: 98, 15 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3017796/>

Wheat beta-expansin (EXPB11) genes: Identification of the expressed gene on chromosome 3BS carrying a pollen allergen domain.

James Breen, Dora Li, David S Dunn, Ferenc Békés, Xiuying Kong, Juncheng Zhang, Jizeng Jia, Thomas Wicker, Rohit Mago, Wujun Ma, Matthew Bellgard and Rudi Appels
BMC Plant Biology, 27 May 2010; 10: 99, 11 pp.
<http://www.biomedcentral.com/1471-2229/10/99>

Breakpoint analysis of balanced chromosome rearrangements by next-generation paired-end sequencing.

Wei Chen, Reinhard Ullmann, Claudia Langnick, Corinna Menzel, Zofia Wotschofsky, Hao Hu, Andreas Döring, Yuhui Hu, Hui Kang, Andreas Tzschach, Maria Hoeltzenbein, Heidemarie Neitzel, Susanne Markus, Eberhard Wiedersberg, Gerd Kistner, Conny MA van Ravenswaaij-Arts, Tjitske Kleefstra, Vera M Kalscheuer & Hans-Hilger Ropers
Eur J Human Genetics, May 2010; 18(5): 539-543
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2987311/>

Population Structure of *Rhizoctonia oryzae-sativae* in California Rice Fields.

Patcharavipa Chaijuckam, Jong-Min Baek, Christopher A. Greer, Robert K. Webster, and R. Michael Davis
Phytopathology, May 2010; 100(5): 502-510
<http://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-100-5-0502>

Identification and genetic analysis of the AOSPORRY locus in *Hypericum perforatum* L.

Anna Schallau, Francesco Arzenton, Amal J. Johnston, Urs Hähnel, David Koszegi, Frank R. Blattner, Lothar Altschmied, Georg Haberer, Gianni Barcaccia, and Helmut Bäumlein.
The Plant Journal, 1 June 2010; 62(5): 773-784.
https://www.researchgate.net/profile/Frank_Blattner/publication/41759690_Identification_and_genetic_analysis_of_the_AOSPORRY_locus_in_Hypericum_perforatum_L/links/0046351499bbc86d88000000.pdf

From array-based hybridization of *Helicobacter pylori* isolates to the complete genome sequence of an isolate associated with MALT lymphoma.

Jean-Michel Thiberge, Caroline Boursaux-Eude, Philippe Lehours, Marie-Agnès Dillies, Sophie Creno, Jean-Yves Coppée, Zoé Rouy, Aurélie Lajus, Laurence Ma, Christophe Burucoa, Anne Ruskoné-Foumestruaux, Anne Courillon-Mallet, Hilde De Reuse, Ivo Gomperts Boneca, Dominique Lamarque, Francis Mégraud, Jean-Charles Delchier, Claudine Médigue, Christiane Bouchier, Agnès Labigneand Josette Raymond
BMC Genomics, 10 June 2010; 11: 368, 12 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3091627/>

Reassociation kinetics-based approach for partial genome sequencing of the cattle tick, *Rhipicephalus (Boophilus) microplus*.

Felix D Guerrero, Paula Moolhuijzen, Daniel G Peterson, Shelby Bidwell, Elisabet Caler, Matthew Bellgard, Vishvanath M Nene and Appolinaire Djikeng
BMC Genomics, 11 June 2010; 11: 374, 9 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2893602/>

Methods for screening for genes and small molecules that activate mammalian receptor proteins

Inventors: Deane Louis Falcone, and John M. Littleton.
United States Patent: US 7737327 B2, Publication Date: 15 June 2010;
<https://www.google.com/patents/US7737327>

Method of preparing libraries of template polynucleotides

Inventors: Niall Anthony Gormley, Geoffrey Paul Smith, David Bentley, Roberto Rigatti, Shujun Luo
United States Patent: US 7741463 B2, Publication Date: 22 June 2010;
<https://www.google.com/patents/US7741463>

Genome size evolution in pufferfish: an insight from BAC clone-based Diodon holocanthus genome sequencing.

Baocheng Guo, Ming Zou, Xiaoni Gan and Shunping He
BMC Genomics, 23 June 2010; 11: 396, 15 pp.
<http://bmcgenomics.biomedcentral.com/articles/10.1186/1471-2164-11-396>

Molluscan Evolutionary Genomics.

W. Brian Simison, Jeffrey L. Boore
Lawrence Berkeley National Laboratory, 30 June 2010; LBNL Paper LBNL-59179, pp.1-24
<http://escholarship.org/uc/item/9xc2m11g>

Identification and genetic analysis of the AOSPORY locus in *Hypericum perforatum* L.

Anna Schallau, Francesco Arzenton, Amal J. Johnston, Urs Hähnel, David Koszegi, Frank R. Blattner, Lothar Altschmied, Georg Haberer, Gianni Barcaccia, Helmut Bäumlein
The Plant Journal, June 2010; 62(5): 773–784

Bacterial Lifestyle in a Deep-sea Hydrothermal Vent Chimney Revealed by the Genome Sequence of the Thermophilic Bacterium *Deferribacter desulfuricans* SSM1.

Yoshihiro Takaki, Shigeru Shimamura, Satoshi Nakagawa, Yasuo Fukuhara, Hiroshi Horikawa, Akiho Ankai, Takeshi Harada, Akira Hosoyama, Akio Oguchi, Shigehiro Fukui, Nobuyuki Fujita, Hideto Takami and Ken Takai
DNA Research, June 2010; 17(3): 123-137.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2885270/>

Comparison of gene order of *GIGANTEA* loci in yellow-poplar, monocots, and eudicots.

Haiying Liang, Abdelali Barakat, Scott E. Schlarbaum, Dina F. Mandoli, John E. Carlson
Genome, 1 July 2010, 53(7): 533-544

Comparative chloroplast genomics reveals the evolution of Pinaceae genera and subfamilies.

Ching-Ping Lin, Jen-Pan Huang, Chung-Shien Wu, Chih-Yao Hsu, and Shu-Miaw Chaw.
Genome Biology and Evolution, 2 July 2010; 2: 504-517.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2997556/>

The *Pinus taeda* genome is characterized by diverse and highly diverged repetitive sequences.

Allen Kovach, Jill L Wegrzyn, Genis Parra, Carson Holt, George E Bruening, Carol A Loopstra, James Hartigan, Mark Yandell, Charles H Langley, Ian Korf and David B Neale
BMC Genomics, 7 July 2010; 11: 420, 14 pp.
<http://www.biomedcentral.com/1471-2164/11/420>

[Stammdesign in *B. licheniformis*.](#)

Michael Rachinger

PhD Theses, 8 July 2010; Georg-August Universität, Göttingen, 154 pp.

<http://d-nb.info/104272203X/34>

[Discovery and characterization of novel antibiotic synthesis and resistance determinants from diverse microbial metagenomes.](#)

Larissa Cherie Parsley

PhD Theses, 9 July 2010; Auburn University, 224 pp.

<http://etd.auburn.edu/handle/10415/2206>

[The Genome of a *Bacillus* Isolate Causing Anthrax in Chimpanzees Combines Chromosomal Properties of *B. cereus* with *B. anthracis* Virulence Plasmids.](#)

Silke R. Klee, Elzbieta B. Brzuszkiewicz, Herbert Nattermann, Holger Brüggemann, Susann Dupke, Antje Wollherr, Tatjana Franz, Georg Pauli, Bernd Appel, Wolfgang Liebl, Emmanuel Couacy-Hymann, Christophe Boesch, Frauke-Dorothee Meyer, Fabian H. Leendertz, Heinz Ellerbrok, Gerhard Gottschalk, Roland Grunow, Heiko Liesegang

PLoS One, 9 July 2010; 5(7): e10986, 12 pp.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0010986>

[Surface expression of biologically active proteins in bacteria.](#)

Inventors: Chia-Hwa Chang, Xiaowen Liu, John A. Lewicki, and Qiang Xu.

United States Patent: US 7754467 B2, Publication Date: 13 July 2010;

<https://www.google.com/patents/US7754467>

[Koji mold-origin phospholipase a2.](#)

Inventors: Katsuhiko Kitamoto, Manabu Arioka, Shotaro Yamaguchi, Masayuki Machida, Keietsu Abe, Katsuya Gomi, Kiyoshi Asai, Motoaki Sano, Taishin Kin, Hideki Nagasaki, Akira Hosoyama, Osamu Akita, Naotake Ogasawara, Satoru Kuhara

United States Patent: US 7763444 B2, Publication Date: 27 July 2010;

<https://www.google.com/patents/US7763444>

[The complete mitochondrial genomes of the whistling duck \(*Dendrocygna javanica*\) and black swan \(*Cygnus atratus*\): dating evolutionary divergence in *Galloanserae*.](#)

Jiang F, Miao Y, Liang W, Ye H, Liu H, Liu B.

Molecular Biology Reports, July 2010; 37(6):3001-3015.

[Comparison of gene order of GIGANTEA loci in yellow-poplar, monocots, and eudicots.](#)

Haiying Liang, Abdelali Barakat, Scott E. Schlarbaum, Dina F. Mandoli, and John E. Carlson.

Genome, July 2010; 53(7): 533-544.

[Analysis of the complete mitochondrial genome sequences of the soybean rust pathogens *Phakopsora pachyrhizi* and *P. meibomia*.](#)

Christine L. Stone, Martha Lucia Posada-Buitrago, Jeffrey L. Boore, Reid D. Frederick

Mycology, July-August 2010; 102(4): 887-897.

<http://www.mycologia.org/content/102/4/887.full>

[Methods for diagnosing and treating diseases and conditions associated with protein kinase C \$\lambda\$.](#)

Inventors: Randall Peterson, and Mark C. Fishman.

United States Patent: US 7771931 B2, Publication Date: 10 August 2010;

<https://www.google.com/patents/US7771931>

[Structural and Functional Divergence of a 1-Mb Duplicated Region in the Soybean \(*Glycine max*\) Genome and Comparison to an Orthologous Region from *Phaseolus vulgaris*.](#)

Jer-Young Lin, Robert M. Stupar, Christian Hans, David L. Hyten and Scott A. Jackson
The Plant Cell, 18 August 2010; 22:2545-2561

[Host Imprints on Bacterial Genomes - Rapid, Divergent Evolution in Individual Patients](#)

Jaroslav Zdziarski, Elzbieta Brzuszkiewicz, Björn Wullt, Heiko Liesegang, Dvora Biran, Birgit Voigt, Jenny Grönberg-Hernandez, Bryndis Ragnarsdottir, Michael Hecker, Eliora Z. Ron, Rolf Daniel, Gerhard Gottschalk, Jörg Hacker, Catharina Svanborg, Ulrich Dobrindt
PLoS Pathogens, 26 August 2010; 6(8): e1001078, 14 pp.

<http://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1001078>

[New plasmids and putative virulence factors from the draft genome of an Australian clinical isolate of *Photobacterium damela*](#)

Paul Wilkinson, Konrad Paszkiewicz, Alex Moorhouse, Jan M. Szubert, Scott Beatson, John Gerrard, Nicholas R. Waterfield, Richard H. French-Constant
FEMS Microbiology Letters, August 2010; 309(2): 136–143

[Structural and functional divergence of a 1-Mb duplicated region in the soybean \(*Glycine max*\) genome and comparison to an orthologous region from *Phaseolus vulgaris*.](#)

Jer-Young Lin, Robert M. Stupar, Christian Hans, David L. Hyten, and Scott A. Jackson.
The Plant Cell, August 2010; 22(8): 2545-2561.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2947175/>

[Dynamics of the Mammalian *APOBEC3* locus and the relationship between Mammalian *APOBEC3* and Lentiviral *Vif* Proteins.](#)

Rebecca St. Claire LaRue

PhD Theses, August 2010; The University of Minnesota, 136 pp.

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.460.9797&rep=rep1&type=pdf>

[Studies of the evolution of parasitic plants in the genus *Striga*, using systematic, population genetics, and genomic approaches.](#)

Matthew Charles Estep

PhD Theses, August 2010; University of Georgia, Athens, 131 pp.

https://getd.libs.uga.edu/pdfs/estep_matthew_c_201008_phd.pdf

[Comparative genomic analysis of the false killer whale \(*Pseudorca crassidens*\) *LMBR1* locus.](#)

Dae-Won Kim, Sang-Haeng Choi, Ryong N. Kim, Sun-Hong Kim, Sang-Gi Paik, Seong-Hyeuk Nam, Dong-Wook Kim, Aeri Kim, Aram Kang, Hong-Seog Park
Genome, 1 September 2010; 53(9): 658-666

[Multi-Platform Next-Generation Sequencing of the Domestic Turkey \(*Meleagris gallopavo*\): Genome Assembly and Analysis.](#)

Rami A. Dalloul, Julie A. Long, Aleksey V. Zimin, Luqman Aslam, Kathryn Beal, Le Ann Blomberg, Pascal Bouffard, David W. Burt, Oswald Crasta, Richard P. M. A. Crooijmans, Kristal Cooper, Roger A. Coulombe, Supriyo De, Mary E. Delany, Jerry B. Dodgson, Jennifer J. Dong, Clive Evans, Karin M. Frederickson, Paul Flicek, Liliana Florea, Otto Folkerts, Martien A. M. Groenen, Tim T. Harkins, Javier Herrero, Steve Hoffmann, Hendrik-Jan Megens, Andrew Jiang,

Pieter de Jong, Pete Kaiser, Heebal Kim, Kyu-Won Kim, Sungwon Kim, David Langenberger, Mi-Kyung Lee, Taeheon Lee, Shrinivasrao Mane, Guillaume Marcais, Manja Marz, Audrey P. McElroy, Thero Modise, Mikhail Nefedov, Cédric Notredame, Ian R. Paton, William S. Payne, Geo Perteau, Dennis Prickett, Daniela Puiu, Dan Qioa, Emanuele Raineri, Magali Ruffier, Steven L. Salzberg, Michael C. Schatz, Chantel Scheuring, Carl J. Schmidt, Steven Schroeder, Stephen M. J. Searle, Edward J. Smith, Jacqueline Smith, Tad S. Sonstegard, Peter F. Stadler, Hakim Tafer, Zhijian (Jake) Tu, Curtis P. Van Tassell, Albert J. Vilella, Kelly P. Williams, James A. Yorke, Liqing Zhang, Hong-Bin Zhang, Xiaojun Zhang, Yang Zhang, Kent M. Reed
PLoS Biology, 7 September 2010; 8(9): e1000475, 21 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2935454/>

[Extensive loss of translational genes in the structurally dynamic mitochondrial genome of the angiosperm *Silene latifolia*.](#)

Daniel B Sloan, Andrew J Alverson, Helena Štorchová, Jeffrey D Palmer, Douglas R Taylor
BMC Evol Biology, 10 September 2010; 10: 274, 15 pp.

[Evidence of Transfer by Conjugation of Type IV Secretion System Genes between *Bartonella* Species and *Rhizobium radiobacter* in Amoeba.](#)

Watcharee Saisongkorh, Catherine Robert, Bernard La Scola, Didier Raoult, Jean-Marc Rolain
PLoS One, 13 September 2010; 5(9): e12666, 14 pp
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2938332/>

[Methods of producing nucleic acid molecules comprising stem loop oligonucleotides](#)

Inventors: Vladimir L. Makarov, Emmanuel Kamberov, and Brendan J. Tarrier.
United States Patent: US 7803550 B2, Publication Date: 28 September 2010.
<https://www.google.com/patents/US7803550>

[Sex chromosome evolution in amniotes: applications for bacterial artificial chromosome libraries.](#)

Daniel E. Janes, Nicole Valenzuela, Tariq Ezaz, Chris Amemiya, and Scott V. Edwards.
BioMed Research International, 12 October 2010; 2011: 132975, 6 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2957134/>

[Abiotic stress responsive polynucleotides and polypeptides.](#)

Inventors: Joel Kreps, Steven P. Briggs, Stephen A. Goff, Fumiaki Katagiri, Todd Moughamer, Nicholas Provart, Darrell Ricke, Tong Zhu, Robert Dietrich, and Bret Cooper.
U.S. Patent Application: 2010/0275333 A1, Publication Date: 28 October 2010;
<https://www.google.com/patents/US20100275333>

[The genome of the domesticated apple \(*Malus x domestica* Borkh.\).](#)

Riccardo Velasco, Andrey Zharkikh, Jason Affourtit, Amit Dhingra, Alessandro Cestaro, Ananth Kalyanaraman, Paolo Fontana, Satish K Bhatnagar, Michela Troglio, Dmitry Pruss, Silvio Salvi, Massimo Pindo, Paolo Baldi, Sara Castelletti, Marina Cavaiuolo, Giuseppina Coppola, Fabrizio Costa, Valentina Cova, Antonio Dal Ri, Vadim Goremykin, Matteo Komjanc, Sara Longhi¹, Pierluigi Magnago, Giulia Malacarne, Mickael Malnoy, Diego Micheletti, Marco Moretto, Michele Perazzolli, Azeddine Si-Ammour, Silvia Vezzulli, Elena Zini, Glenn Eldredge, Lisa M Fitzgerald, Natalia Gutin, Jerry Lanchbury, Teresita Macalma, Jeff T Mitchell, Julia Reid, Bryan Wardell, Chinnappa Kodira, Zhoutao Chen, Brian Desany, Faheem Niazi, Melinda Palmer, Tyson Koepke, Derick Jiwan, Scott Schaeffer, Vandhana Krishnan, Changjun Wu, Vu T Chu, Stephen T King, Jessica Vick, Quanzhou

Tao, Amy Mraz, Aimee Stormo, Keith Stormo, Robert Bogden, Davide Ederle, Alessandra Stella, Alberto Vecchiotti, Martin M Kater, Simona Masiero, Pauline Lasserre, Yves Lespinasse, Andrew C Allan, Vincent Bus, David Chagné, Ross N Crowhurst, Andrew P Gleave, Enrico Lavezzo, Jeffrey A Fawcett, Sebastian Proost, Pierre Rouzé, Lieven Sterck, Stefano Toppo, Barbara Lazzari, Roger P Hellens, Charles-Eric Durel, Alexander Gutin, Roger E Bumgarner, Susan E Gardiner, Mark Skolnick, Michael Egholm, Yves Van de Peer, Francesco Salamini & Roberto Viola
Nature Genetics, October 2010; 42(10): 833-839.

<http://www.nature.com/ng/journal/v42/n10/full/ng.654.html>

[Ig heavy chain genes and their locus in grass carp *Ctenopharyngodon idella*](#)

F.S. Xiao, Y.P. Wang, W. Yan, M.X. Chang, W.J. Yao, Q.Q. Xu, X.X. Wang, Q. Gao, P. Nie
Fish & Shellfish Immunology, October 2010; 29(4): 594-599

https://www.researchgate.net/profile/Mingxian_Chang/publication/44683046_Ig_heavy_chain_genes_and_their_locus_in_grass_carp_Ctenopharyngodon_idella/links/0046351a7f9914dc12000000.pdf

[Comparison of gene order in the chromosome region containing a TERMINAL FLOWER 1 homolog in apricot and peach reveals microsynteny across angiosperms.](#)

Haiying Liang, Tetyana Zhebentyayeva, Bode Olukolu, Dayton Wilde, Gregory L. Reighard and Albert Abbott

Plant Science, October 2010; 179(4): 390-398

https://www.researchgate.net/profile/Dayton_Wilde/publication/229406165_Comparison_of_gene_order_in_the_chromosome_region_containing_a_TERMINAL_FLOWER_1_homolog_in_apricot_and_peach_reveals_microsynteny_across_angiosperms/links/543d55190cf25d6b1ad82ba4.pdf

[Digital MDA for enumeration of total nucleic acid contamination.](#)

Paul C. Blainey and Stephen R. Quake

Nucleic Acids Research, 11 November 2010; 39(4): e19, pp.1-9

<http://nar.oxfordjournals.org/content/39/4/e19.full.pdf+html>

[DNA: Mechanical breakage.](#)

Michael Andrew Quail

In: *eLS*, 15 November 2010; John Wiley & Sons, online book;

DOI: 10.1002/9780470015902.a0005333.pub2

[Promoter for epidermis-specific, pathogen-inducible transgenic expression in plants](#)

Inventors: Patrick Schweizer, Axel Himmelbach, Lothar Altschmied, and Helmut Maucher.

United States Patent: US 7834243 B2, Publication Date: 16 November 2010;

<https://www.google.com/patents/US7834243>

[Thermostable DNA polymerases and methods of use.](#)

Inventors: Thomas William Schoenfeld, Nicholas Hermersmann, Darby Renneckar, David Alan Mead

US Patent Application: 2010/0291638 A1, Publication Date: 18 November 2010;

<https://www.google.com/patents/US20100291638>

[Microorganisms Having Enhanced Resistance To Acetate And Related Compositions And Methods of Use.](#)

Inventors: Steven D. Brown, Shihui Yang

US Patent Application: 2010/0291647 A1, Publication Date: 18 November 2010;

<https://www.google.com/patents/US20100291647>

Divergence genetics analysis reveals historical population genetic processes leading to contrasting phylogeographic patterns in co-distributed species

Tamara M. Mcgovern, Carson C. Keever, Christopher A. Sasaki, Michael W. Hart, Peter B. Marko
Molecular Ecology, November 2010; 19(22): 5043–5060

https://www.researchgate.net/profile/Michael_Hart5/publication/47643362_Divergence_genetics_analysis_reveals_historical_population_genetic_processes_leading_to_contrasting_phylogeographic_patterns_in_co-distributed_species/links/09e415136216c2314d000000.pdf

Evolutionary Origin and Phylogeny of the Modern Holocephalans (*Chondrichthyes: Chimaeriformes*): A Mitogenomic Perspective.

Jun G. Inoue, Masaki Miya, Kevin Lam, Boon-Hui Tay, Janine A. Danks, Justin Bell, Terrence I. Walker and Byrappa Venkatesh

Molecular Biology Evolution, November 2010; 27(11): 2576-2586

<http://mbe.oxfordjournals.org/content/27/11/2576.long>

Effect of isothiocyanates and selenium on antioxidant enzyme expression and DNA methylation in colon cancer cells *in vitro*.

Lawrence Barrera

PhD Theses, November 2010; University of East Anglia, 211pp.

https://ueaeprints.uea.ac.uk/25641/1/Lawrence_Barrera's_Final_Thesis.pdf

Genomic detection using sparsity-inspired tools.

Mona A. Sheikh

PhD Theses, November 2010; Rice University, TX, 107 pp.

<https://scholarship.rice.edu/bitstream/handle/1911/70441/SheikhM.pdf?sequence=1&isAllowed=y>

Nuclear DNA content in *Sinningia* (*Gesneriaceae*); intraspecific genome size variation and genome characterization in *S. speciosa*

David Zaitlin, Andrew J. Pierce,

Genome, 1 December 2010; 53(12): 1066-1082(17)

The Genomic Sequence and Annotation of Bacteriophage HK239.

Alice Ann Wright

MS Theses, Western Kentucky University, 1 December 2010; pp.1-90

<http://digitalcommons.wku.edu/theses/208/>

Ruler arrays.

Inventors: David K. Gifford, and P. Alexander Rolfe.

U.S. Patent Application: 2010/0304990 A1, Publication Date: 2 December 2010.

<https://www.google.com/patents/US20100304990>

Restrikční mapování genomů a genomová amplifikace patogenních kmenů rodu *Treponema*. (Genome restriction mapping and genome amplification of the pathogenic strains of the genus *Treponema*)

Michal Strouhal

PhD Theses, 17 December 2010; Masarykova Univerzita, Brno, 107 pp.

http://is.muni.cz/th/13388/lf_d/Strouhal_DP_complete-lastversion-10-27-2010.pdf

Different Patterns of Evolution in the Centromeric and Telomeric Regions of Group A and B Haplotypes of the Human Killer Cell Ig-Like Receptor Locus.

Chul-Woo Pyo, Lisbeth A. Guethlein, Quyen Vu, Ruihan Wang, Laurent Abi-Rached, Paul J. Norman, Steven G. E. Marsh, Jeffrey S. Miller, Peter Parham, Daniel E. Geraghty
PLoS ONE, 29 December 2010; 5(12): e15115, 14 pp.
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0015115>

Nuclear DNA content in *Sinningia* (Gesneriaceae); intraspecific genome size variation and genome characterization in *S. speciosa*.

David Zaitlin, and Andrew J. Pierce.
Genome, December 2010; 53(12): 1066-1082.
<http://www.paralog.com/ajp/pdf/2010ZaitlinGenome.pdf>

Sequencing and functional analysis of a multi-component dioxygenase from PAH-degrading *Sphingomonas paucimobilis* EPA505

Renuka Persad Miller
PhD Theses, December 2010; Clemson University, 82 pp.
http://tigerprints.clemson.edu/cgi/viewcontent.cgi?article=1678&context=all_dissertations

Use of in vivo-induced antigen technology (IVIAT) to identify virulence factors of *Porphyromonas gingivalis*.

Shannon M. Wallet, Jin Chung, and Martin Handfield.
Methods Molecular Biology, 2010; 666 (Oral Biology): 181-195

Construction of small-insert and large-insert metagenomic libraries.

Carola Simon and Rolf Daniel
Methods in Molecular Biology, 2010; 668 (Metagenomics): 39-50.

The Meta-Methanoxgenome.

M. Taupp, and S. J. Hallam.
In: *Handbook of Hydrocarbon and Lipid Microbiology*, 2010; ed. by Kenneth N. Timmis, Springer Berlin Heidelberg, pp. 2231-2244.

Swarup K. Parida, and T. Mohapatra.
Whole genome sequencing.

In: *Principles and Practices of Plant Genomics, v. 3: Advanced Genomics*, 2010; Chittaranjan Kole, Albert G. Abbott Eds, CRC Press, pp. 120 -174.

2009.

Method for preparing single-stranded DNA libraries.

Inventors: Gina L. Costa, John H. Leamon, Jonathan M. Rothberg, Michael P. Weiner
US Patent Application: 2009/0011959 A1, Publication Date: 8 January 2009
<https://www.google.com/patents/US20090011959>

[Genomic Survey of the Non-Cultivable Opportunistic Human Pathogen, *Enterocytozoon bieneusi*.](#)

Donna E. Akiyoshi, Hilary G. Morrison, Shi Lei, Xiaochuan Feng, Quanshun Zhang, Nicolas Corradi, Harriet Mayanja, James K. Tumwine, Patrick J. Keeling, Louis M. Weiss, and Saul Tzipori
PLoS Pathogens, 9 January 2009; 5(1): e1000261, 10 pp.

<http://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1000261>

[Immunity or digestion: glucanase activity in a glucan-binding protein family from *Lepidoptera*.](#)

Yannick Pauchet, Dalial Freitak, Hanna M. Heidel-Fischer, David G. Heckel, and Heiko Vogel
J Biol Chem, 23 January 2009; 284(4): 2214-2224.

<http://www.jbc.org/content/284/4/2214.long>

[Preparation of a Phage DNA Fragment Library for Whole Genome Shotgun Sequencing.](#)

Elizabeth J. Summer

Methods in Molecular Biology, January 2009; 502(Bacteriophages): 27-46.

[Interaction between Bacteriophage DMS3 and Host CRISPR Region Inhibits Group Behaviors of *Pseudomonas aeruginosa*.](#)

Michael E. Zegans, Jeffrey C. Wagner, Kyle C. Cady, Daniel M. Murphy, John H. Hammond, and George A. O'Toole

J Bacteriology, January 2009; 191(1): 210-219.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2612449/>

[Characterization of the neurohypophysial hormone gene loci in elephant shark and the Japanese lamprey: origin of the vertebrate neurohypophysial hormone genes.](#)

Pai-Chung Gwee, Boon-Hui Tay, Sydney Brenner, and Byrappa Venkatesh
BMC Evol Biology, 26 February 2009; 9: 47, 15 pp.

<http://www.biomedcentral.com/1471-2148/9/47>

[Genomic sequence analysis of the Illinois strain of the *Agrotis ipsilon multiple nucleopolyhedrovirus*.](#)

Robert L. Harrison

Virus Genes, February 2009; 38(1): 155-170.

<http://pubag.nal.usda.gov/pubag/downloadPDF.xhtml?id=27712&content=PDF>

[Degenerate Tetraploidy Was Established Before Bdelloid Rotifer Families Diverged.](#)

Jae H. Hur, Karine Van Doninck, Morgan L. Mandigo and Matthew Meselson

Mol Biol Evolution, February 2009; 26(2): 375-383.

<http://mbe.oxfordjournals.org/content/26/2/375.long>

[Genome Sequence of the Pathogenic Intestinal Spirochete *Brachyspira hyodysenteriae* Reveals Adaptations to Its Lifestyle in the Porcine Large Intestine.](#)

Matthew I. Bellgard, Phatthanaphong Wanchanthuek, Tom La, Karon Ryan, Paula Moolhuijzen, Zayed Albertyn, Babak Shaban, Yair Motro, David S. Dunn, David Schibeci, Adam Hunter, Roberto Barrero, Nyree D. Phillips, and David J. Hampson

PLoS One, 5 March 2009; 4(3): e4641, 12 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2650404/>

[Phylogenomics of unusual histone H2A Variants in Bdelloid rotifers.](#)

Karine Van Doninck, Morgan L. Mandigo, Jae H. Hur, Peter Wang, Julien Guglielmini, Michel C. Milinkovitch, William S. Lane, and Matthew Meselson.
PLoS Genetics, 6 March 2009; 5(3): e1000401, 13 pp.
<http://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1000401>

[De Novo Next Generation Sequencing of Plant Genomes.](#)

Steve Rounsley, Pradeep Reddy Marri, Yeisoo Yu, Ruifeng He, Nick Sisneros, Jose Luis Goicoechea, So Jeong Lee, Angelina Angelova, Dave Kudrna, Meizhong Luo, Jason Affourtit, Brian Desany, James Knight, Faheem Niazi, Michael Egholm and Rod A. Wing
Rice, 7 March 2009; 2(1): 35-43.
http://www.u.arizona.edu/~pradeepm/Marri_RICE_2009.pdf

[Gene Content and Distribution in the Nuclear Genome of *Fragaria vesca*](#)

Ana Clara Pontaroli, Rebekah L. Rogers, Qian Zhang, Melanie E. Shields, Thomas M. Davis, Kevin M. Folta, Phillip SanMiguel, and Jeffrey L. Bennetzen
The Plant Genome, 18 March 2009; 2(1): 93–101.
<http://www.strawberrygenes.unh.edu/Plant%20Gen.-2009-Pontaroli-93-101.pdf>

[Laboratory procedures to generate viral metagenomes.](#)

Rebecca V Thurber, Matthew Haynes, Mya Breitbart, Linda Wegley & Forest Rohwer
Nature Protocols, 19 March 2009; 4(4): 470-483.

[A close phylogenetic relationship between Sipuncula and Annelida evidenced from the complete mitochondrial genome sequence of *Phascolosoma esculenta*.](#)

Xin Shen, Xiaoyin Ma, Jianfeng Ren, and Fangqing Zhao
BMC Genomics, 28 March 2009; 10: 136, 11 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2667193/>

[Evolutionary fate of rhizome-specific genes in a non-rhizomatous *Sorghum* genotype.](#)

C. S. Jang, T. L. Kamps, H. Tang, J. E. Bowers, C. Lemke and A. H. Paterson
Heredity, March 2009; 102(3): 266-273.

[Phylogenomics of Unusual Histone H2A Variants in Bdelloid Rotifers.](#)

Karine Van Doninck, Morgan L. Mandigo, Jae H. Hur, Peter Wang, Julien Guglielmini, Michel C. Milinkovitch, William S. Lane, and Matthew Meselson
PLoS Genetics, March 2009; 5(3): e1000401, 13 pp.

[Sequence analysis of *Escherichia coli* O157:H7 bacteriophage \$\Phi\$ V10 and identification of a phage-encoded immunity protein that modifies the O157 antigen.](#)

Lynda L. Perry, Phillip SanMiguel, Udit Minocha, Anton I. Terekhov, Mindy L. Shroyer, Leigh A. Farris, Nathan Bright, Bradley L. Reuhs & Bruce M. Applegate
FEMS Microbiol Letters, March 2009; 292(2): 182-186.

[Thermostable cellulase and methods of use.](#)

Inventor: Phillip Brumm (Assignee: C5-6 Technologies)
United States Patent: US 7510857 B2, Publication Date: 31 March 2009;
<https://www.google.com/patents/US7510857>

[Internet Resources of Interest to Bacteriophage Workers.](#)

Andrew M. Kropinski

Methods in Molecular Biology, March 2009; 502: 365-370

[Characterization of Chromosome Ends in the Filamentous Fungus *Neurospora crassa*.](#)

Cheng Wu, Yun-Sik Kim, Kristina M. Smith, Weixi Li, Heather M. Hood, Chuck Staben, Eric U. Selker, Matthew S. Sachs, and Mark L. Farman
Genetics, March 2009; 181(3): 1129–1145.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2651048/>

[Gene Content and Distribution in the Nuclear Genome of *Fragaria vesca*.](#)

Ana Clara Pontaroli, Rebekah L. Rogers, Qian Zhang, Melanie E. Shields, Thomas M. Davis, Kevin M. Folta, Phillip SanMiguel and Jeffrey L. Bennetzen
The Plant Genome, March 2009; 2(1): 93-101.

[Sequence analysis of *Escherichia coli* O157: H7 bacteriophage \$\phi\$ V10 and identification of a phage-encoded immunity protein that modifies the O157 antigen.](#)

Lynda L. Perry, Phillip SanMiguel, Udit Minocha, Anton I. Terekhov, Mindy L. Shroyer, Leigh A. Farris, Nathan Bright, Bradley L. Reuhs, and Bruce M. Applegate.
FEMS Microbiology Letters, March 2009; 292(2): 182-186.
<http://femsle.oxfordjournals.org/content/292/2/182.long>

[Evolutionary fate of rhizome-specific genes in a non-rhizomatous *Sorghum* genotype.](#)

C. S. Jang, T. L. Kamps, H. Tang, J. E. Bowers, C. Lemke, and A. H. Paterson.
Heredity, March 2009; 102(3): 266-273.
<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.324.7280&rep=rep1&type=pdf>

[Method for characterising polynucleotides.](#)

Inventors: Preben Lexow, Erlend Ragnhildstveit
US Patent Application: 2009/0087834 A1, Publication Date: 2 April 2009

[Method for sequencing a polynucleotide template.](#)

Inventors: Helen Bignell, Niall Anthony Gormley, Matthew Hims, Geoffrey Smith, John Stephen West
US Patent Application: 2009/0093378 A1, Publication Date: 9 April 2009
<https://www.google.com/patents/US20090093378>

[Biopolymer sequencing by hybridization of probes to form ternary complexes and variable range alignment.](#)

Inventors: John Oliver, Barrett Bready, Peter Goldstein, Franco Preparata
US Patent Application: 2009/0099786 A1, Publication Date: 16 April 2009

[Promoter for epidermis-specific, pathogen-inducible transgenic expression in plants.](#)

Inventors: Patrick Schweizer, Axel Himmelbach, Lothar Altschmied, Helmut Maucher
US Patent Application: 2009/0100542 A1, Publication Date: 16 April 2009; pp.1-52.

[Analysis of the *Rickettsia africae* genome reveals that virulence acquisition in *Rickettsia* species may be explained by genome reduction.](#)

Pierre-Edouard Fournier, Khalid El Karkouri, Quentin Leroy, Catherine Robert, Bernadette Giumelli, Patricia Renesto, Cristina Socolovschi, Philippe Parola, Stéphane Audic, and Didier Raoult
BMC Genomics, 20 April 2009; 10:166, 15 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2694212/>

[Assembling the Marine Metagenome, One Cell at a Time.](#)

Tanja Woyke, Gary Xie, Alex Copeland, José M. González, Cliff Han, Hajnalka Kiss, Jimmy H. Saw, Pavel Senin, Chi Yang, Sourav Chatterji, Jan-Fang Cheng, Jonathan A. Eisen, Michael E. Sieracki, and Ramunas Stepanauskas

PLoS One, 23 April 2009; 4(4): e5299, 10 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2668756/>

[The genome of *Bacillus subtilis* bacteriophage SPO1.](#)

Charles R. Stewart, Sherwood R. Casjens, Steven G. Cresawn, Jennifer M. Houtz, Alexis L. Smith, Michael E. Ford, Craig L. Peebles, Graham F. Hatfull, Roger W. Hendrix, Wai Mun Huang, and Marisa L. Pedulla

J Molecular Biology, 24 April 2009; 388(1): 48–70.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2666789/>

[Immunity and physiology of *Lepidoptera* is influenced by midgut mediated environmental signals.](#)

Dalial Freitak

PhD Thesis, 28 April 2009; Biologisch-Pharmazeutischen Fakultät der Friedrich-Schiller-Universität Jena, Germany, pp. 1-128.

[Ultrasonication of wastewater sludge - Consequences on biodegradability and flowability.](#)

T.T.H. Pham, Satinder K. Brar, R.D. Tyagi and R.Y. Surampalli

Journal of Hazardous Materials, 30 April 2009; 163(2-3): 891-898.

[Complete mitochondrial genome sequence of the yellow-spotted long-horned beetle *Psacotha hilaris* \(Coleoptera: Cerambycidae\) and phylogenetic analysis among coleopteran insects.](#)

Ki-Gyoung Kim, Mee Yeon Hong, Min Jee Kim, Hyun Hwak Im, Man Il Kim, Chang Hwan Bae, Sook Jae Seo, Sang Hyun Lee, and Iksoo Kim.

Molecules and Cells, 30 April 2009; 27(4): 429-441.

https://www.researchgate.net/profile/Min_Jee_Kim/publication/24356246_Complete_mitochondrial_genome_sequence_of_the_yellow-spotted_long-horned_beetle_Psacotha_hilaris_%28Coleoptera_Cerambycidae%29_and_phylogenetic_analysis_among_coleopteran_insects/links/0e7209573fd55460a7c01e1d.pdf

[Long DNA fragments of wheat bacterial artificial chromosome library construction comments recommend subcloned.](#)

Shi Cheng, Wang Shihua, Shi Guoan, Jiang Xiang-sheng

North China Agriculture, April 2009; 24(4): 23-25

[Laboratory procedures to generate viral metagenomes.](#)

Rebecca V. Thurber, Matthew Haynes, Mya Breitbart, Linda Wegley, and Forest Rohwer.

Nature Protocols, April 2009; 4(4): 470-483.

https://www.researchgate.net/profile/Rebecca_Vega_Thurber/publication/24214191_Laboratory_procedures_to_generate_viral_metagenomes/links/0f31753c01b2b6c60a000000.pdf

[Methods for generating shotgun and mixed shotgun/paired-end libraries for the 454 DNA sequencer.](#)

Graham Wiley, Simone Macmil, Chunmei Qu, Ping Wang, Yanbo Xing, Doug White, Jianfeng Li, James D. White, Alexander Domingo, Bruce A. Roe

In: *Current Protocols in Human Genetics*, April 2009; John Wiley & Sons, Inc, Chapter 18: Unit18.1 (we have pdf.-file)

[Complete mitochondrial genome sequence of the yellow-spotted long-horned beetle *Psacotha hilaris* \(Coleoptera: Cerambycidae\) and phylogenetic analysis among coleopteran insects.](#)

Ki-Gyoung Kim, Mee Yeon Hong, Min Jee Kim, Hyun Hwak Im, Man Il Kim, Chang Hwan Bae, Sook Jae Seo, Sang Hyun Lee and Iksoo Kim

Molecules and Cells, April 2009; 27(4): 429-441.

[The complete mitochondrial genome of the ridgetail white prawn *Exopalaemon carinicauda* Holthuis, 1950 \(Crustacean: Decapoda: Palaemonidae\) revealed a novel rearrangement of tRNA genes.](#)

Xin Shen, Ming'an Sun, Zhigang Wu, Mei Tian, Hanliang Cheng, Fangqing Zhao and Xueping Meng
Gene, 15 May 2009; 437(1-2): 1-8.

<http://www.sciencedirect.com/science/article/pii/S037811190900105X>

[Mitochondrial Genomics: structure, inheritance and phylogenetic utility of the Mitochondrial genome in Bivalvia and Insecta](#)

Andrea Ricci

PhD Theses, 18 May 2009; Alma Mater Studiorum Università di Bologna, 102 pp.

http://amsdottorato.unibo.it/1875/1/Ricci_Andrea_tesi.pdf

[RNA editing and mitochondrial activity in promastigotes and amastigotes of *Leishmania donovani*.](#)

Martina Neboháčová, Christine E. Kim, Larry Simpson and Dmitri A. Maslov
International Journal for Parasitology, May 2009; 39(6): 635-644.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2693023/>

[Preparing a re-sequencing DNA library of 2 cancer candidate genes using the ligation-by-amplification protocol by two PCR reactions.](#)

YeYang Su, Lin Lin, Geng Tian, Chen Chen, Tao Liu, Xingya Xu, XinPeng Qi, XiuQing Zhang and HuanMing Yang

Science in China Series C: Life Sciences, May 2009; 52(5): 483-491.

[Pyramidobacter piscolens gen. nov., sp. nov., a member of the phylum 'Synergistetes' isolated from the human oral cavity.](#)

Julia Downes, Sonia R. Vartoukian, Floyd E. Dewhirst, Jacques Izard, Tsute Chen, Wen-Han Yu, Iain C. Sutcliffe and William G. Wade

Int J Syst Evolution and Microbiology, May 2009; 59(5): 972-980.

<http://www.ncbi.nlm.nih.gov/pmc/articles/mid/NIHMS114556/pdf/nihms114556.pdf>

[Comparative genomics and molecular evolution: new genomic resources for the Hymenoptera and evolutionary studies on the genes of the *Nasonia vitripennis* Hox complex.](#)

Mónica Cecilia Muñoz-Torres

PhD Theses, May 2009; Clemson University, 220 pp.

http://tigerprints.clemson.edu/all_dissertations/342/

[Natural variation of large plasmids in bacterial populations.](#)

Laura Erin Williams

PhD Theses, May 2009; University of Georgia, Athens, 187 pp.

https://getd.libs.uga.edu/pdfs/williams_laura_e_200905_phd.pdf

[Preparation of templates for methylation analysis.](#)

Inventors: Niall Gormley, Andreas Gnirke, David Jaffe, Harris Nusbaum
US Patent Application: 2009/0148842 A1, Publication Date: 11 June 2009
<https://www.google.com/patents/US20090148842>

[The complete mitochondrial genome of *Atelura formicaria* \(Hexapoda: Zygentoma\) and the phylogenetic relationships of basal insects.](#)

Sara Comandi, Antonio Carapelli, Lars Podsiadlowski, Francesco Nardi and Francesco Frati
Gene, 15 June 2009; 439(1-2): 25-34.
[https://www.researchgate.net/profile/Antonio_Carapelli/publication/24199749_The_complete_mitochondrial_genome_of_Atelura_formicaria_\(Hexapoda_Zygentoma\)_and_the_phylogenetic_relationships_of_basal_insects/links/02bfe5102aff55b7df000000.pdf](https://www.researchgate.net/profile/Antonio_Carapelli/publication/24199749_The_complete_mitochondrial_genome_of_Atelura_formicaria_(Hexapoda_Zygentoma)_and_the_phylogenetic_relationships_of_basal_insects/links/02bfe5102aff55b7df000000.pdf)

[Modified Cyanovirin-N Polypeptide.](#)

Inventors: Xiaowen Liu, Kirsten Essenmacher, David A. Simpson, and Qiang Xu.
US Patent Application: 2009/0155304 A1, Publication Date: 18 June 2009.
<https://www.google.com/patents/US20090155304>

[Methods for Nucleic Acid Mapping and Identification of Fine Structural Variations in Nucleic Acids.](#)

Inventor: Si Lok
US Patent Application: 2009/0156431 A1, Publication Date: 18 June 2009

[Genome sequence of the recombinant protein production host *Pichia pastoris*.](#)

Kristof De Schutter, Yao-Cheng Lin, Petra Tiels, Annelies Van Hecke, Sascha Glinka, Jacqueline Weber-Lehmann, Pierre Rouzé, Yves Van de Peer & Nico Callewaert
Nature Biotechnology, June 2009; 27(6): 561-566.
<http://www.nature.com/nbt/journal/v27/n6/full/nbt.1544.html>

[A device for automated hydrodynamic shearing of genomic DNA.](#)

Aric Joneja, Xiaohua Huang
BioTechniques, June 2009; 46(7): 553–556.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2880395/>

[A toolkit for high-throughput, cross-species gene engineering in *Drosophila*.](#)

Radoslaw K Ejsmont, Mihail Sarov, Sylke Winkler, Kamil A Lipinski & Pavel Tomancak
Nature Methods, June 2009; 6(6): 435 – 437.
<http://rejsmont.eu.org/documents/ejsmont2009ys.pdf>

[The First Complete Mitochondrial Genome Sequences for Stomatopod Crustaceans: Implications for Phylogeny.](#)

Swinstrom, Kirsten; Roy Caldwell, H. Matthew Fourcade and Jeffrey L. Boore
Lawrence Berkeley National Laboratory, 24 July 2009; LBNL Paper LBNL-55416. pp. 1-21.
<http://escholarship.org/uc/item/4s4023bb>

[A comparison of the first two sequenced chloroplast genomes in Asteraceae: lettuce and sunflower.](#)

Ruth E. Timme, Jennifer V. Kuehl, Jeffrey L. Boore, Robert K. Jansen

Lawrence Berkeley National Laboratory, 24 July 2009; Paper LBNL-59386.

<http://escholarship.org/uc/item/2kd25122#>

Symbiotic Virus at the Evolutionary Intersection of Three Types of Large DNA Viruses; Iridoviruses, Ascoviruses, and Ichnoviruses.

Yves Bigot, Sylvaine Renault, Jacques Nicolas, Corinne Moundras, Marie-Véronique Demattei, Sylvie Samain, Dennis K. Bideshi, and Brian A. Federici

PLoS One, 28 July 2009; 4(7): e6397, 9 pp.

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0006397>

Metabolic analysis of the soil microbe *Dechloromonas aromatica* str.RCB: indications of a surprisingly complex life-style and cryptic anaerobic pathways for aromatic degradation.

Kennan Kellaris Salinero, Keith Keller, William S Feil, Helene Feil, Stephan Trong, Genevieve Di Bartolo and Alla Lapidus

BMC Genomics, 3 August 2009; 10: 351, 23 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2907700/>

Scheduling of biological samples for DNA sequencing.

Yuwei Hu, Chin Soon Lim

MS Theses, 6 August 2009; MIT, 107 pp.

<http://18.7.29.232/bitstream/handle/1721.1/54214/587418369-MIT.pdf?sequence=2>

Genetically modified microorganism and process for production of macrolide compound using the microorganism.

Inventors: Kazuhiro Machida, Yasuhide Aritoku

US Patent Application: 2009/0215134 A1, Publication Date: 27 August 2009

<http://www.freepatentsonline.com/y2009/0215134.html>

长片段小麦细菌人工染色体 DNA 亚克隆文库的构建. (Construction of Subclone Library for Wheat Megabase BAC DNA)

高双成(Shuang-Cheng Gao) ; 王世华(Shi-Hua Wang) ; 施江(Jiang Shi) ; 孔祥生(Xiang-Sheng Kong) ; 史国安(Huo-An Shi)

华北农学报, 28 August 2009; 24(4): 23-25.

The complete mitochondrial genome of the clam *Meretrix petechialis* (Mollusca: Bivalvia: Veneridae).

Jianfeng Ren, Xin Shen, Ming'an Sun, Feng Jiang, Yun Yu, Zhenfen Chi and Bin Liu

Mitochondrial DNA, August 2009; 20(4): 78-87.

Genomic DNA microarray comparison of gene expression patterns in *Paracoccidioides brasiliensis* mycelia and yeasts *in vitro*.

Jomar P. Monteiro, Karl V. Clemons, Laurence F. Mirels, John A. Collier, Thomas D. Wu, Jata Shankar, Catalina R. Lopes and David A. Stevens

Microbiology, August 2009; 155(8): 2795-2808.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2888123/>

Karyotype analysis of three Brassica species using five different repetitive DNA markers by fluorescence in situ hybridization.

Yoon Jung Hwang, Hyun Hee Kim, Soo-Jin Kwon, Tae-Jin Yang, Ho-Cheol Ko, Beom-Seok Park, Jae Dong Chung, and Ki-Byung Lim.

원예과학기술지, *Korean Journal Horticultural Science Technology*, Summer 2009; 27(3): 456-463.

Whole Genome Amplification and *De novo* Assembly of Single Bacterial Cells.

Sébastien Rodrigue, Rex R. Malmstrom, Aaron M. Berlin, Bruce W. Birren, Matthew R. Henn, and Sallie W. Chisholm

PLoS One, 2 September 2009; 4(9): e6864, 10 pp.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0006864>

Paired end sequencing.

Inventors: Zhoutao Chen, Brian Christopher Godwin, Gianni Calogero Ferreri, David Roderick Riches (Assignee: 454 Life Sciences Corporation)

US Patent Application: 2009/0233291 A1, Publication Date: 17 September 2009

<http://www.freepatentsonline.com/y2009/0233291.html>

Methods for indexing samples and sequencing multiple polynucleotide templates.

Inventors: Helen Bignell, Louise Fraser, Niall Anthony Gormley

US Patent Application: 2009/0233802 A1, Publication Date: 17 September 2009, pp.1-43.

Methods and Apparatuses for Nucleic Acid Shearing by Sonication.

Inventors: Vladimir I. Bashkirov, Umberto Ulmanella, Robert G. Eason, Bradford J. Taft (Assignee: Life Technologies Corporation)

US Patent Application: 2009/0233814 A1, Publication Date: 17 September 2009

<https://www.google.com/patents/US20090233814>

DNA-stable isotope probing integrated with metagenomics for retrieval of biphenyl dioxygenase genes from polychlorinated biphenyl-contaminated river sediment.

Woo Jun Sul, Joonhong Park, John F. Quensen III, Jorge L. M. Rodrigues, Laurie Seliger, Tamara V. Tsoi, Gerben J. Zylstra, and James M. Tiedje

Appl Environmental Microbiology, September 2009; 75(17): 5501-5506.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2737913/>

Mycobacteriophages BPs, Angel and Halo: comparative genomics reveals a novel class of ultra-small mobile genetic elements.

Timothy Sampson, Gregory W. Broussard, Laura J. Marinelli, Deborah Jacobs-Sera, Mondira Ray, Ching-Chung Ko, Daniel Russell, Roger W. Hendrix and Graham F. Hatfull

Microbiology, September 2009; 155(9): 2962-2977.

<http://www.ncbi.nlm.nih.gov/pmc/articles/mid/NIHMS176946/>

The complete mitogenome sequence of the Japanese oak silkmoth, *Antheraea yamamai* (Lepidoptera: Saturniidae).

Seong Ryeol Kim, Man Il Kim, Mee Yeon Hong, Kee Young Kim, Pil Don Kang, Jae Sam Hwang, Yeon Soo Han, Byung Rae Jin and Iksoo Kim

Molecular Biology Reports, September 2009; 36(7): 1871-1880.

Comparative sequence analysis of the *SALT OVERLY SENSITIVE1* orthologous region in *Thellungiella halophila* and *Arabidopsis thaliana*.

Gyoungju Nah, Christopher L. Pagliarulo, Peter G. Mohr, Meizhong Luo, Nick Sisneros, Yeisoo Yu, Kristi Collura, Jennifer Currie, Jose Luis Goicoechea, Rod A. Wing and Karen S. Schumaker

Genomics, September 2009; 94(3): 196-203.

<http://www.sciencedirect.com/science/article/pii/S0888754309001232>

[Assembly of a complex genome: defining elements of Structure and Function.](#)

James Breen

PhD Theses, September 2009; Murdoch University, W. Australia, 265 pp.

<http://researchrepository.murdoch.edu.au/2990/2/02Whole.pdf>

[In SITU Induced Antigen Technology \(ISIAT\) for Identification of Polynucleotides Expressed during Infection or Colonization.](#)

Inventor: Jeffrey Daniel Hillman

U.S. Patent Application: 2009/0247422 A1, Publication Date: 1 October 2009;

<https://www.google.com/patents/US20090247422>

[Complete nucleotide sequence and organization of the mitogenome of the red-spotted apollo butterfly, *Parnassius bremeri* \(Lepidoptera: Papilionidae\) and comparison with other lepidopteran insects.](#)

Man Il Kim, Jee Yeon Baek, Min Jee Kim, Heon Cheon Jeong, Ki-Gyoung Kim, Chang Hwan Bae, Yeon Soo Han, Byung Rae Jin and Iksoo Kim

Molecules and Cells, 13 October 2009; 28(4): 347-363.

[Paired end sequencing.](#)

Inventors: Jan Berka, Zhoutao Chen, Michael Egholm, Brian C. Hutchison Godwin, Stephen Kyle, John Harris Leamon, Gary James Sarkis, Jan Fredrik Simons (Assignee: 454 Life Sci)

United States Patent: US 7601499 B2, Publication Date: 13 October 2009

<https://www.google.com/patents/US7601499>

[Linear vectors, host cells and cloning methods.](#)

Inventors: Ronald Godiska, David A. Mead, Nikolai V. Ravin

US Patent Application: 2009/0263873 A1, Publication Date: 22 October 2009

[Koji mold-origin phospholipase A2.](#)

Inventors: Katsuhiko Kitamoto, Manabu Arioka, Shotaro Yamaguchi, Masayuki Machida, Keietsu Abe, Katsuya Gomi, Kiyoshi Asai, Motoaki Sano, Taishin Kin, Hideki Nagasaki, Akira Hosoyama, Osamu Akita, Naotake Ogasawara, Satoru Kuhara

US Patent Application: 2009/0263888 A1, Publication Date: 22 October 2009

[Method of sequencing and mapping target nucleic acids.](#)

Inventors: Benjamin G Schroeder (Assignee: Life Technologies Co.).

US Patent Application: 2009/0269771 A1, Publication Date: 29 October 2009

<https://www.google.com/patents/US20090269771>

[Spinocerebellar Ataxia Type 31 Is Associated with "Inserted" Penta-Nucleotide Repeats Containing \(TGGAA\)_n](#)

Nozomu Sato, Takeshi Amino, Kazuhiro Kobayashi, Shuichi Asakawa, Taro Ishiguro, Taiji Tsunemi, Makoto Takahashi, Tohru Matsuura, Kevin M. Flanigan, Sawa Iwasaki, Fumitoshi Ishino, Yuko Saito, Shigeo Murayama, Mari Yoshida, Yoshio Hashizume, Yuji Takahashi, Shoji Tsuji, Nobuyoshi Shimizu, Tatsushi Toda, Kinya Ishikawa and Hidehiro Mizusawa

The American Journal of Human Genetics, 29 October 2009; 85(5): 544-557.

Complete nucleotide sequence and organization of the mitogenome of the red-spotted apollo butterfly, *Parnassius bremeri* (Lepidoptera: Papilionidae) and comparison with other lepidopteran insects.

Man Il Kim, Jee Yeon Baek, Min Jee Kim, Heon Cheon Jeong, Ki-Gyoung Kim, Chang Hwan Bae, Yeon Soo Han, Byung Rae Jin, and Iksoo Kim.

Molecules and Cells, 31 October 2009; 28(4): 347-363.

<http://www.molcells.org/journal/view.html?year=2009&volume=28&number=4&spage=347>

Whole genome sequence of *Desulfovibrio magneticus* strain RS-1 revealed common gene clusters in magnetotactic bacteria.

Hidekazu Nakazawa, Atsushi Arakaki, Sachiko Narita-Yamada, Isao Yashiro, Koji Jinno, Natsuko Aoki, Ai Tsuruyama, Yoshiko Okamura, Satoshi Tanikawa, Nobuyuki Fujita, Haruko Takeyama and Tadashi Matsunaga

Genome Research, October 2009; 19(10): 1801-1808.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765288/>

Fine Mapping and Marker Development for the Crossability Gene *SKr* on Chromosome 5BS of Hexaploid Wheat (*Triticum aestivum* L.).

Walid Alfares, Annaig Bouguennec, François Balfourier, Georges Gay, H el ene Berg es, Sonia Vautrin, Pierre Sourdille, Michel Bernard and Catherine Feuillet

Genetics, October 2009; 183(2): 469-481.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2766310/>

Combining two technologies for full genome sequencing of human.

K. G. Skryabin, E. B. Prokhortchouk, A. M. Mazur, E. S. Boulygina, S. V. Tsygankova, A. V. Nedoluzhko, S. M. Rastorguev, V.B. Matveev, N.N. Chekanov, D.A. Goranskaya, A.B. Teslyuk,

N.M. Gruzdeva, V.E. Velikhov, D.G. Zaridze, and M.V. Kovalchuk

Acta Naturae, October 2009; 1(3): 102-107

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3347526/>

Construction of genomic DNA library for *Veillonella parvula* H2 in rumen.

Yang Wen-yan, Liu Guo-wen, Wang Zhe

Heilongjiang Animal Science and Veterinary Medicine, October 2009; 2009(19): Q78

Long fragment of wheat bacterial artificial chromosome DNA library construction was subcloned.

Kong Xiang-sheng, Gao Shuang-Cheng, Wang Shihua, Shi Jiang Shi-an

Acta Agriculturae Boreali-Sinica, October 2009; 24(4): 23-30.

The Antiretroviral APOBEC3 Proteins of Artiodactyls.

Stef an Ragnar J onsson

PhD Theses, October 2009; University of Iceland, 192 pp.

http://skemman.is/en/stream/get/1946/4024/11648/1/StefanRagnarThesis_fixed.pdf

Assembly of viral metagenomes from Yellowstone hot springs reveals phylogenetic relationships and host co-evolution.

Thomas W. Schoenfeld, and David Mead.

In: *Handbook of Molecular Microbial Ecology II: Metagenomics in Different Habitats 2*, Fall 2011; Ed. by Frans J. de Bruijn, Wiley-Blackwell, pp. 45-61.

Brazilian EMBnet Node: progress report.

Ana Tereza Vasconcelos, Goran Neshich, and Wim M. Degraeve.

EMBnet.News, Fall 2009; 15(4): pp-25.

<http://journal.embnet.org/index.php/embnetnews/article/view/76/158>

New metabolites in dibenzofuran cometabolic degradation by a biphenyl-cultivated *Pseudomonas putida* strain B6-2.

Qinggang Li, Xiaoyu Wang, Guangbo Yin, Zhonghui Gai, Hongzhi Tang, Cuiqing Ma, Zixin Deng and Ping Xu

Environmental Science & Technology, 15 November 2009; 43(22): 8635-8642.

Spinocerebellar ataxia type 31 is associated with “inserted” penta-nucleotide repeats containing (TGGAA)_n.

Nozomu Sato, Takeshi Amino, Kazuhiro Kobayashi, Shuichi Asakawa, Taro Ishiguro, Taiji Tsunemi, Makoto Takahashi, Tohru Matsuura, Kevin M. Flanigan, Sawa Iwasaki, Fumitoshi Ishino, Yuko Saito, Shigeo Murayama, Mari Yoshida, Yoshio Hashizume, Yuji Takahashi, Shoji Tsuji, Nobuyoshi Shimizu, Tatsushi Toda, Kinya Ishikawa, and Hidehiro Mizusawa

The American Journal of Human Genetics, November 2009; 85(5): 544-557.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2775824/>

Bacterial artificial chromosome library for genome-wide analysis of Chinese hamster ovary cells.

Takeshi Omasa, Yihua Cao, Joon Young Park, Yasuhiro Takagi, Shuichi Kimura, Hidenori Yano, Kohsuke Honda, Shuichi Asakawa, Nobuyoshi Shimizu, and Hisao Ohtake.

Biotechnology and Bioengineering, 1 December 2009; 104(5): 986-994.

https://www.researchgate.net/profile/Kohsuke_Honda/publication/26338926_Bacterial_artificial_chromosome_library_for_genome-wide_analysis_of_Chinese_hamster_ovary_cells/links/09e4150c33d696407a000000.pdf

Komparativní genomika *Treponema pallidum*: Cesta od určení sekvence chromozomu k aplikacím v klinické diagnostice.

(Comparative genomics of *Treponema pallidum*: from whole genome sequencing to diagnostic applications)

Petra Pospíšilová

PhD Theses, 18 December 2009; Masarykova univerzita, Brno, 100 pp.

http://is.muni.cz/th/12972/1f_d/Dizertace_Pospisilova.pdf

Complete nucleotide sequence of pCTX-M360, an intermediate plasmid between pEL60 and pCTX-M3, from a multidrug resistant *Klebsiella pneumoniae* isolated in China.

Wen-han Zhu, Lan Luo, Jia-yi Wang, Xiao-hong Zhuang, Ling Zhong, Kang Liao, Yan Zeng, and Yong-jun Lu

Antimicrobial Agents and Chemotherapy, December 2009; 53(12): 5291-5293

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2786365/>

Interspecific profiling of gene expression informed by comparative genomic hybridization: A review and a novel approach in African cichlid fishes.

Heather E. Machado, Alexander A. Pollen, Hans A. Hofmann and Suzy C.P. Renn

Integrative and Comparative Biology, December 2009; 49(6): 644-659

<http://icb.oxfordjournals.org/content/49/6/644.long>

Sequence analysis and characterization of the dihydrodiol dehydrogenase and aldehyde dehydrogenase genes in "Sphingomonas paucimobilis" EPA505."

Jaleh Esmaeilzadeh Jalili

PhD Theses, December 2009; Clemson University, 103 pp.

http://tigerprints.clemson.edu/cgi/viewcontent.cgi?article=1489&context=all_dissertations

Evolutionary origins and molecular mechanisms of hostplant adaptation in Lepidopteran herbivores.

Hanna Marieke Heidel-Fischer

PhD Theses, 2009; der Friedrich-Schiller-Universität, Jena, 102 pp.

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.428.1807&rep=rep1&type=pdf>

Applied Biosystems SOLiD™ 3 System. Library Preparation Guide.

ABI, Co., 2009

https://webspace.utexas.edu/aca349/GSAF%20Protocols/4407413B_SOLiD3_LibPrep_Guide.pdf

Services and technologies.

The Wellcome Trust Sanger Institute, 2009;

<http://www.sanger.ac.uk/resources/technologies/>

Preparation of a phage DNA fragment library for whole genome shotgun sequencing.

Elizabeth J. Summer

Methods Molecular Biology, 2009; 502 (Bacteriophages):27-46

Internet resources of interest to bacteriophage workers.

Andrew M. Kropinski

Methods Molecular Biology, 2009; 502 (Bacteriophages): 365-373.

2008.

Nuclear fertility restorer genes and methods of use in plants.

Inventors: Gregory G. Brown, Charles Dendy, Benoit S. Landry, Wing Cheung, Hua Jin, Fang-Ming Lai, Natasa Formanova, Martin LaForest

United States Patent: US 7314971 B2, Publication Date: 1 January 2008.

<https://www.google.com/patents/US7314971>

Whole-genome amplification by adaptor-ligation PCR of randomly sheared genomic DNA (PRSG).

Nona Arneson, Simon Hughes, Richard Houlston, and Susan Done.

Cold Spring Harbor Protocols, 1 January 2008; 2008: pdb-prot4922.

Group II Introns Break New Boundaries: Presence in a Bilaterian's Genome.

Yvonne Vallès, Kenneth M. Halanych, and Jeffrey L. Boore

PLoS One, 23 January 2008; 3(1): e1488, 6 pp.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0001488>

Low X/Y divergence in four pairs of papaya sex-linked genes.

Qingyi Yu, Shaobin Hou, F. Alex Feltus, Meghan R. Jones, Jan E. Murray, Olivia Veatch, Cornelia Lemke, Jimmy H. Saw, Richard C. Moore, Jyothi Thimmapuram, Lei Liu, Paul H. Moore, Maqsdul Alam, Jiming Jiang, Andrew H. Paterson, Ray Ming
The Plant Journal, January 2008; 53(1): 124-132.
<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-3113X.2007.03329.x/full>

[Genomic degradation of a young Y chromosome in *Drosophila miranda*.](#)

Doris Bachtrog, Emily Hom, Karen M. Wong, Xulio Maside, and Pieter de Jong.
Genome Biology, 12 February 2008; 9(2): R30, 10 pp.
<http://www.genomebiology.com/2008/9/2/R30>

[Genome Sequence of the Saprophyte *Leptospira biflexa* Provides Insights into the Evolution of *Leptospira* and the Pathogenesis of Leptospirosis.](#)

Mathieu Picardeau, Dieter M. Bulach, Christiane Bouchier, Richard L. Zuerner, Nora Zidane, Peter J. Wilson, Sophie Creno, Elizabeth S. Kuczek, Simona Bommezzadri, John C. Davis, Annette McGrath, Matthew J. Johnson, Caroline Boursaux-Eude, Torsten Seemann, Zoé Rouy, Ross L. Coppel, Julian I. Rood, Aurélie Lajus, John K. Davies, Claudine Médigue, and Ben Adler
PLoS One, 13 February 2008; 3(2): e1607, 9 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2229662/>

[Sequencing and analysis of the gene-rich space of cowpea.](#)

Michael P Timko, Paul J Rushton, Thomas W Laudeman, Marta T Bokowiec, Edmond Chipumuro, Foo Cheung, Christopher D Town, and Xianfeng Chen
BMC Genomics, 27 February 2008; 9: 103, 20 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2279124/>

[Complete Genome Sequence of *Fingoldia magna*, an Anaerobic Opportunistic Pathogen.](#)

Takatsugu Goto, Atsushi Yamashita, Hideki Hirakawa, Minenosuke Matsutani, Kozo Todo, Kenshiro Ohshima, Hidehiro Toh, Kazuaki Miyamoto, Satoru Kuhara, Masahira Hattori, Tohru Shimizu, and Shigeru Akimoto
DNA Research, 29 February 2008; 15(1): 39-47.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2650633/>

[Functional Gene Losses Occur with Minimal Size Reduction in the Plastid Genome of the Parasitic Liverwort *Aneura mirabilis*.](#)

Norman J. Wickett, Yan Zhang, S. Kellon Hansen, Jessie M. Roper, Jennifer V. Kuehl, Sheila A. Plock, Paul G. Wolf, Claude W. dePamphilis, Jeffrey L. Boore and Bernard Goffinet
Mol Biol Evolution, February 2008; 25(2): 393-401.

[Construction and phenotypic screening of mid-size insert marine microbial environmental genomic libraries.](#)

Jennifer C. Braff
PhD Dissertation, MIT and Woods Hole Oceanographic Institution, February 2008; pp.1-107.

[Molecular characterization of L-413C, a P2-related plague diagnostic bacteriophage.](#)

Emilio Garcia, Patrick Chain, Jeff M. Elliott, Alexander G. Bobrov, Vladimir L. Motin, Olga Kirillina, Victoria Lao, Richard Calendar and Andrey A. Filippov
Virology, 1 March 2008; 372(1): 85-96
<http://www.sciencedirect.com/science/article/pii/S0042682207007167>

Fungus-origin lysyl oxidases.

Inventors: Kensuke Yuuki, Atsuki Toumoto, Masayuki Machida, Keietsu Abe, Katsuya Gomi, Kiyoshi Asai, Motoaki Sano, Taishin Kin, Hideki Nagasaki, Akira Hosoyama, Osamu Akita, Naotake Ogasawara, Satoru Hisahara

United States Patent: US 7348170 B2, Publication Date: 25 March 2008

<https://www.google.com/patents/US7348170>

A sequence-based survey of the complex structural organization of tumor genomes.

Benjamin J Raphael, Stanislav Volik, Peng Yu, Chunxiao Wu, Guiqing Huang, Elena V Linardopoulou, Barbara J Trask, Frederic Waldman, Joseph Costello, Kenneth J Pienta, Gordon B Mills, Krystyna Bajsarowicz, Yasuko Kobayashi, Shivaranjani Sridharan, Pamela L Paris, Quanzhou Tao, Sarah J Aerni, Raymond P Brown, Ali Bashir, Joe W Gray, Jan-Fang Cheng, Pieter de Jong, Mikhail Nefedov, Thomas Ried, Hesed M Padilla-Nash, and Colin C Collins

Genome Biology, 25 March 2008; 9(3): R59, 17 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2397511/>

Ma-LMM01 Infecting Toxic *Microcystis aeruginosa* Illuminates Diverse Cyanophage Genome Strategies.

Takashi Yoshida, Keizo Nagasaki, Yukari Takashima, Yoko Shirai, Yuji Tomaru, Yoshitake Takao, Shigetaka Sakamoto, Shingo Hiroishi, and Hiroyuki Ogata

J. Bacteriology, March 2008; 190(5): 1762–1772.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2258655/>

The Mitochondrial Genome of the Gymnosperm *Cycas taitungensis* Contains a Novel Family of Short Interspersed Elements, Bpu Sequences, and Abundant RNA Editing Sites.

Shu-Miaw Chaw, Arthur Chun-Chieh Shih, Daryi Wang, Yu-Wei Wu, Shu-Mei Liu, The-Yuan Chou

Mol Biology & Evolution, March 2008; 25(3): 603-615.

<http://mbe.oxfordjournals.org/content/25/3/603.full>

Genomic Characterization of Mycobacteriophage Giles: Evidence for Phage Acquisition of Host DNA by Illegitimate Recombination.

Peter Morris, Laura J. Marinelli, Deborah Jacobs-Sera, Roger W. Hendrix, and Graham F. Hatfull

Journal of Bacteriology, March 2008; 190(6): 2172-2182.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2258872/>

The complete nucleotide sequence of the cassava (*Manihot esculenta*) chloroplast genome and the evolution of *atpF* in Malpighiales: RNA editing and multiple losses of a group II intron.

Henry Daniell, Kenneth J. Wurdack, Anderson Kanagaraj, Seung-Bum Lee, Christopher Saski, and Robert K. Jansen.

Theoretical and Applied Genetics, March 2008; 116(5): 723-737.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2587239/>

Adaptive Functional Divergence Among Triplicated α -Globin Genes in Rodents.

Jay F. Storz, Federico G. Hoffmann, Juan C. Opazo, and Hideaki Moriyama

Genetics, March 2008; 178(3): 1623–1638.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2278084/>

Comparative analysis of eight *Arthrobacter* plasmids.

Kurt Jerke, Cindy H. Nakatsu, Fred Beasley and Allan Konopka

Plasmid, March 2008; 59(2): 73-85.

Genomic sequence analysis of a fast-killing isolate of *Spodoptera frugiperda* multiple nucleopolyhedrovirus.

Robert L. Harrison, Benjamin Puttler and Holly J. R. Popham

J General Virology, March 2008; 89(3): 775-790.

<http://pubag.nal.usda.gov/pubag/downloadPDF.xhtml?id=16168&content=PDF>

BAC-end Sequence Analysis and a Draft Physical Map of the Common Bean (*Phaseolus vulgaris* L.) Genome.

Jessica A. Schlueter, Jose Luis Goicoechea, Kristi Collura, Navdeep Gill, Jer-Young Lin, Yeisoo Yu, Dave Kudrna, Andrea Zuccolo, C. Eduardo Vallejos, Monica Muñoz-Torres, Matthew W. Blair, Joe Tohme, Jeff Tomkins, Phillip McClean, Rod A. Wing and Scott A. Jackson

Tropical Plant Biology, March 2008; 1(1): 40-48.

Recent Origin of Dioecious and Gynodioecious Y Chromosomes in Papaya.

Qingyi Yu, Rafael Navajas-Pérez, Eric Tong, Jon Robertson, Paul H. Moore, Andrew H. Paterson and Ray Ming

Tropical Plant Biology, March 2008; 1(1): 49-57.

https://www.researchgate.net/profile/Paul_Moore6/publication/225455207_Recent_Origin_of_Dioecious_and_Gynodioecious_Y_Chromosomes_in_Papaya/links/00b49515c75137ccbb000000.pdf

Molecular biology of flower development in *Viola pubescens*, a species with the chasmogamous-cleistogamous mixed breeding system.

Yunjing Wang

PhD Theses, March 2008; Ohio University, 109 pp.

https://etd.ohiolink.edu/ap/10?0::NO:10:P10_ACCESSION_NUM:ohiou1205379431

Complete chloroplast genome sequences of *Drimys*, *Liriodendron*, and *Piper*: Implications for the phylogeny of magnoliids and the evolution of GC content.

Zhengqiu Cai, C. Penafior, J. V. Kuehl, J. Leebens-Mack, J. Carlson, C. W. dePamphilis, J. L. Boore, and R. K. Jansen.

Lawrence Berkeley National Laboratory, 16 April 2008; 52 pp.

<http://escholarship.org/uc/item/9st9z7c8#>

Screening method for genes of brewing yeast.

Inventors: Yoshihiro Nakao, Norihisa Nakamura, Yukiko Kodama, Tomoko Fujimura, and Toshihiko Ashikari.

United States Patent: US 7365164 B2, Publication Date: 29 April 2008;

<https://www.google.com/patents/US7365164>

Genetics of Sex Determination in Tilapiine Species.

A. Cnaani, B.-Y. Lee, N. Zilberman, C. Ozouf-Costaz, G. Hulata, M. Ron, A. D'Hont, J.-F. Baroiller, H. D'Cotta, D.J. Penman, E. Tomasino, J.-P. Coutanceau, E. Pepey, A. Shirak, T.D. Kocher

Sexual Development, April 2008; 2(1): 43-54.

<http://wiki.umd.edu/CichlidGenetics/images/3/3a/Cnaani2008.pdf>

Extensive Rearrangements in the Chloroplast Genome of *Trachelium caeruleum* Are Associated with Repeats and tRNA Genes.

Rosemarie C. Haberle, H. Matthew Fourcade, Jeffrey L. Boore and Robert K. Jansen

Journal of Molecular Evolution, April 2008; 66(4): 350-361.

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.174.5498&rep=rep1&type=pdf>

The Y chromosome-specific STS marker MS2 and its peripheral regions on the Y chromosome of the dioecious plant *Silene latifolia*.

Kotaro Ishii, Ryuji Sugiyama, Megumi Onuki, Yusuke Kazama, Sachihiko Matsunaga, and Shigeyuki Kawano

Genome, April 2008; 51(4): 251-260.

Genome size, cell size, and the evolution of enucleated erythrocytes in attenuate salamanders.

Rachel Lockridge Mueller, T. Ryan Gregory, Sean M. Gregory, Alice Hsieh and Jeffrey L. Boore
Zoology, 1 May 2008; 111(3): 218-230

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2435017/>

Comparative genomics in two Dicot model systems.

Gyoungju Nah Park

PhD Theses, 2 May 2008; University of Arizona, 151 pp.

<http://arizona.openrepository.com/arizona/handle/10150/194279>

Complete Genome Sequence of the Complex Carbohydrate-Degrading Marine Bacterium, *Saccharophagus degradans* Strain 2-40^T

Ronald M. Weiner, Larry E. Taylor, II, Bernard Henrissat, Loren Hauser, Miriam Land, Pedro M. Coutinho, Corinne Rancurel, Elizabeth H. Saunders, Atkinson G. Longmire, Haitao Zhang, Edward A. Bayer, Harry J. Gilbert, Frank Larimer, Igor B. Zhulin, Nathan A. Ekborg, Raphael Lamed, Paul M. Richardson, Ilya Borovok, and Steven Hutcheson

PLoS Genetics, 30 May 2008; 4(5): e1000087, 13 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2386152/>

Genetic analysis of equine 2',5'-oligoadenylate synthetase (*OAS1*) and ribonuclease L (*RNASEL*) polymorphisms and association to severe West Nile Virus disease.

Jonathan Joseph Rios

PhD Theses, Texas A&M University, May 2008; pp. 1-160.

<http://repository.tamu.edu/handle/1969.1/ETD-TAMU-2749?show=full>

Evolutionary origins of a novel host plant detoxification gene in butterflies.

Hanna M. Fischer, Christopher W. Wheat, David G. Heckel and Heiko Vogel

Mol Biol Evolution, May 2008; 25(5): 809-820.

<http://mbe.oxfordjournals.org/content/25/5/809.long>

Comparative genomic analysis of the whale (*Pseudorca crassidens*) *PRNP* locus.

Kim, Dae-Won; Chae, Sung-Hwa; Kang, Bo-Ra; Choi, Sang-Haeng; Kim, Aeri; Woo, Seonock; Park, Hong-Seog

Genome, 1 June 2008; 51(6): 452-464.

Complete chloroplast genome of *Trachelium caeruleum*: extensive rearrangements are associated with repeats and tRNAs.

Haberle, Rosemarie C.; Fourcade, Matthew L.; Boore, Jeffrey L.; Jansen, Robert K.

Lawrence Berkeley National Laboratory, 4 June 2008; LBNL Paper LBNL-59348.

<http://escholarship.org/uc/item/2q7044d4>

Metagenomic analysis of phosphorus removing sludge communities.

Héctor García Martín, Natalia Ivanova, Victor Kunin, Falk Warnecke, Kerrie Barry, Alice C. McHardy, Christine Yeates, Shaomei He, Asaf Salamov, Ernest Szeto¹, Eileen Dalin, Nik Putnam, Harris J. Shapiro, Jasmyn L. Pangilinan, Isidore Rigoutsos, Nikos C. Kyrpides, Linda Louise Blackall, Katherine D. McMahon, and Philip Hugenholtz
Lawrence Berkeley National Laboratory, 9 June 2008; LBNL Paper LBNL-59661.
<http://www.escholarship.org/uc/item/30z138fd>

The highest-copy repeats are methylated in the small genome of the early divergent vascular plant *Selaginella moellendorffii*.

Agnes P Chan, Admasu Melake-Berhan, Kimberly O'Brien, Stephanie Buckley, Hui Quan, Dan Chen, Matthew Lewis, Jo Ann Banks, and Pablo D Rabinowicz
BMC Genomics, 12 June 2008; 9: 282, 7 pp.
<http://www.biomedcentral.com/1471-2164/9/282>

Genomic sequence analysis of a granulovirus isolated from the Old World bollworm, *Helicoverpa armigera*.

Robert L. Harrison and Holly J. R. Popham
Virus Genes, June 2008; 36(3): 565-581.

Viral diversity and dynamics in an infant gut.

Mya Breitbart, Matthew Haynes, Scott Kelley, Florent Angly, Robert A. Edwards, Ben Felts, Joseph M. Mahaffy, Jennifer Mueller, James Nulton, Steve Rayhawk, Beltran Rodriguez-Brito, Peter Salamon and Forest Rohwer
Research in Microbiology, June 2008; 159(5): 367-373.
<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.333.2571&rep=rep1&type=pdf>

Comparative genomic analysis of the whale (*Pseudorca crassidens*) PRNP locus.

Dae-Won Kim, Sung-Hwa Chae, Bo-Ra Kang, Sang-Haeng Choi, Aeri Kim, Seonock Woo, and Hong-Seog Park.
Genome, June 2008; 51(6): 452-464.
https://www.researchgate.net/profile/Sung-Hwa_Chae/publication/51397602_Comparative_genomic_analysis_of_the_whale_%28Pseudorca_crassidens%29_PRNP_locus/links/0046352955cb0bbc76000000.pdf

The complete mitochondrial genome of the Antarctic springtail *Cryptopygus antarcticus* (*Hexapoda: Collembola*).

Antonio Carapelli, Sara Comandi, Peter Convey, Francesco Nardi, and Francesco Frati
BMC Genomics, 1 July 2008; 9: 315, 12 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2483729/>

Microbial Genomics Core Lab equipment.

Daniel Fu-Chang Tsai, Zee-Fen Chang, and Chih-Hsin James Yang.
Maple Express NTUCM, 1 July 2008; 10(3): 171-176.
<http://www.mc.ntu.edu.tw/staff/boss/MapleExpress003/print.pdf>

Vectors, kits and methods for cloning DNA.

Inventors: David A. Mead, Ronald Godiska, Thomas W Schoenfeld, Spencer Hermanson
US Patent Application: 2008/0166773 A1, Publication Date: 10 July 2008

[Amniote Phylogenomics: Testing Evolutionary Hypotheses with BAC Library Scanning and Targeted Clone Analysis of Large-Scale DNA Sequences from Reptiles.](#)

Andrew M. Shedlock, Daniel E. Janes and Scott V. Edwards
Methods in Molecular Biology, 16 July 2008; 422 (Phylogenomics): 91-117.

[Sequencing and Phylogenomic Analysis of Whole Mitochondrial Genomes of Animals.](#)

Rafael Zardoya and Mónica Suárez
Methods in Molecular Biology, 16 July 2008; 422 (Phylogenomics): 185-200.

[Methods for nucleic acid mapping and identification of fine structural-variations in nucleic acids.](#)

Inventor: Si Lok
PCT Patent Application: WO/2008/083554, Publication Date: 17 July 2008

[Assembly of Viral Metagenomes from Yellowstone Hot Springs.](#)

Thomas Schoenfeld, Melodee Patterson, Paul M. Richardson, K. Eric Wommack, Mark Young, and David Mead
Applied and Environmental Microbiology, July 2008; 74(13): 4164–4174.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2446518/>

[Mitochondrial haplotype determination in the oomycete plant pathogen *Phytophthora ramorum*.](#)

Frank N. Martin
Current Genetics, July 2008; 54(1): 23-34.
http://www.verticilliumdb.org/diagnostics/Martin_2008.pdf

[Sequence Analysis of Bacterial Artificial Chromosome Clones from the Apospory-Specific Genomic Region of *Pennisetum* and *Cenchrus*.](#)

Joann A. Conner, Shailendra Goel, Gunawati Gunawan, Marie-Michele Cordonnier-Pratt, Virgil Ed Johnson, Chun Liang, Haiming Wang, Lee H. Pratt, John E. Mullet, Jeremy DeBarry, Lixing Yang, Jeffrey L. Bennetzen, Patricia E. Klein, and Peggy Ozias-Akins
Plant Physiology, July 2008; 147(3): 1396–1411.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2442526/>

[A phylogenetic analysis of indel dynamics in the cotton genus.](#)

Corrinne E. Grover, Yeisoo Yu, Rod A. Wing, Andrew H. Paterson, and Jonathan F. Wendel
Molecular Biology and Evolution, July 2008; 25(7): 1415-1428.
<http://mbe.oxfordjournals.org/content/25/7/1415.long>

[Identification of the female-determining region of the W chromosome in *Bombyx mori*.](#)

H. Abe, T. Fujii, N. Tanaka, T. Yokoyama, H. Kakehashi, M. Ajimura, K. Mita, Y. Banno, Y. Yasukochi, T. Oshiki, M. Neno, T. Ishikawa and T. Shimada
Genetica, July, 2008, 133(3): 269-282
<http://ja.brc.riken.jp/lab/bpmp/unit/members/nobtanak/files/pdf09.pdf>

[The Whole-genome Sequencing of the Obligate Intracellular Bacterium *Orientia tsutsugamushi* Revealed Massive Gene Amplification During Reductive Genome Evolution.](#)

Keisuke Nakayama, Atsushi Yamashita, Ken Kurokawa, Takuya Morimoto, Michihiro Ogawa, Masahiro Fukuhara, Hiroshi Urakami, Makoto Ohnishi, Ikuo Uchiyama, Yoshitoshi Ogura, Tadasuke Ooka, Kenshiro Oshima, Akira Tamura, Masahira Hattori, and Tetsuya Hayashi

DNA Research, August 2008; 15(4): 185–199.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2575882/>

Determination of the Genome Sequence of *Porphyromonas gingivalis* Strain ATCC 33277 and Genomic Comparison with Strain W83 Revealed Extensive Genome Rearrangements in *P. gingivalis*.

Mariko Naito, Hideki Hirakawa, Atsushi Yamashita, Naoya Ohara, Mikio Shoji, Hideharu Yukitake, Keisuke Nakayama, Hidehiro Toh, Fuminobu Yoshimura, Satoru Kuhara, Masahira Hattori, Tetsuya Hayashi, and Koji Nakayama
DNA Research, August 2008; 15(4): 215–225.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2575886/>

Characterization of the major fragrance gene from an aromatic *japonica* rice and analysis of its diversity in Asian cultivated rice.

F. Bourgis, R. Guyot, H. Gherbi, E. Tailliez, I. Amabile, J. Salse, M. Lorieux, M. Delseny, and A. Ghesquière
Theoretical and Applied Genetics, August 2008; 117(3): 353–368.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2470208/>

A pan-genomic investigation of the contributions of LTR Retrotransposons to gene evolution and genome structure: Mouse genes and a novel algorithm for repeat investigation.

Jeremy Daniel DeBarry
PhD Theses, August 2008; The University of Georgia, 114 pp.
https://getd.libs.uga.edu/pdfs/debarry_jeremy_d_200808_phd.pdf

Genome sequence of the lytic bacteriophage P1201 from *Corynebacterium glutamicum* NCHU 87078: Evolutionary relationships to phages from *Corynebacterineae*.

Chang-Lin Chen, Tzu-Ying Pan, Shu-Chen Kan, Yi-Chia Kuan, Lian-Yu Hong, Kun-Ruei Chiu, Ching-Sen Sheu, Jui-Sen Yang, Wen-Hwei Hsu and Hui-Yu Hu
Virology, 1 September 2008; 378(2): 226-232.
<http://www.sciencedirect.com/science/article/pii/S0042682208003619>

Parallel Methods For Insertional Mutagenesis.

Inventor: Michael Paul Strathmann
US Patent Application: 2008/0214403 A1, Publication Date: 4 September 2008

Method for retaining even coverage of short insert libraries.

Inventors: Niall Anthony Gormley, Melanie Anne Smith
US Patent Application: 2008/0220986 A1, Publication Date: 11 September 2008

The Genome of *Borrelia recurrentis*, the Agent of Deadly Louse-Borne Relapsing Fever, Is a Degraded Subset of Tick-Borne *Borrelia duttonii*.

Magali Lescot, Stéphane Audic, Catherine Robert, Thi Tien Nguyen, Guillaume Blanc, Sally J. Cutler, Patrick Wincker, Arnaud Couloux, Jean-Michel Claverie, Didier Raoult, and Michel Drancourt
PLoS Genetics, 12 September 2008; 4(9): e1000185, 11 pp.
<http://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1000185>

Paired end sequencing

Inventors: Zhoutao Chen, Brian Christopher Godwin, Gianni Calogero Ferreri, and David Roderick Riches.

U.S. Patent Application: 2009/0233291 A1, Publication Date: 17 September 2009;
<https://www.google.com/patents/US20090233291>

[Deinococcus geothermalis: The Pool of Extreme Radiation Resistance Genes Shrinks.](#)

Kira S. Makarova, Marina V. Omelchenko, Elena K. Gaidamakova, Vera Y. Matrosova, Alexander Vasilenko, Min Zhai, Alla Lapidus, Alex Copeland, Edwin Kim, Miriam Land, Konstantinos Mavrommatis, Samuel Pitluck, Paul M. Richardson, Chris Detter, Thomas Brettin, Elizabeth Saunders, Barry Lai, Bruce Ravel, Kenneth M. Kemner, Yuri I. Wolf, Alexander Sorokin, Anna V. Gerasimova, Mikhail S. Gelfand, James K. Fredrickson, Eugene V. Koonin, Michael J. Daly
Lawrence Berkeley National Laboratory, 23 September 2008; LBNL Paper LBNL-934E.
(PLoS One, 26 September 2007; 2(9): e955.) <http://escholarship.org/uc/item/9hv1j81j>

[Viral communities associated with healthy and bleaching corals](#)

Kristen L Marhaver, Robert A Edwards, and Forest Rohwer
Environ Microbiology, September 2008; 10(9): 2277–2286.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2702503/>

[Localization of BAC clones on mitotic chromosomes of *Musa acuminata* using fluorescence in situ hybridization.](#)

E. Hřibová, M. Doleželová and Jaroslav Doležel
Biologia Plantarum, September 2008; 52(3): 445-452.
http://intranet.ueb.cas.cz/cs/system/files/users/public/dolezel_80/2565_-_Hribova_2008.pdf

[The gap-filling sequence on the left arm of chromosome 2 in fission yeast *Schizosaccharomyces pombe*.](#)

Mayumi Sasaki, Alimjan Idiris, Aya Tada, Hiromichi Kumagai, Yuko Giga-Hama, Hideki Tohda.
Yeast, September 2008; 25(9): 673-679.
<http://onlinelibrary.wiley.com/doi/10.1002/yea.1613/full>

[南极磷虾 \(*Euphausia superba*\) 线粒体基因组特征及其分子标记应用串 \(Mitochondrial Genomic Characteristics of *Euphausia superba* and its Application as Molecular Markers\)](#)

申欣, 孙松, 王海青, 王敏晓, 任建峰
Xin Shen, Song Sun, Hai-Qing Wang, Min-Xiao Wang, Jian-Feng Ren, Guang-Tao Zhang, Bin Liu
Oceanologia et Limnologia Sinica, September 2008; 39(5): 446-454
http://www.marinejournal.cn/hyyhze/ch/reader/create_pdf.aspx?file_no=200805003

[Deciphering the genetic basis for polyketide variation among mycobacteria producing mycolactones.](#)

Sacha J Pidot, Hui Hong, Torsten Seemann, Jessica L Porter, Marcus J Yip, Artem Men, Matthew Johnson, Peter Wilson, John K Davies, Peter F Leadlay, and Timothy P Stinear
BMC Genomics, 7 October 2008; 9: 462.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2569948/>

[Characterization of duplicated *Dunaliella viridis* SPT1 genes provides insights into early gene divergence after duplication.](#)

Zhenwei Guan, Xiangzong Meng, Zhenhua Sun, Zhengkai Xu and Rentao Song

Gene, 15 October 2008; 423(1): 36-42.

https://www.researchgate.net/profile/Rentao_Song/publication/23133361_Characterization_of_duplicated_Dunaliella_viridis_SPT1_genes_provides_insights_into_early_gene_divergence_after_duplication/links/0c960539ebca29df8b000000.pdf

Diagnostic Methods Based on Polymorphisms of Glucosyltransferase-Like Protein.

Inventors: Angela Flannery, Rose Maciewicz

US Patent Application: 2008/0261910 A1, Publication Date: 23 October 2008;

Thermostable Viral Polymerases and Methods of Use.

Inventors: Thomas W. Schoenfeld, Vinay K. Dhodda, Robert A. DiFrancesco, David A. Mead

US Patent Application: 2008/0268498, Publication Date: 30 October 2008; pp.1-38.

The Genome of *Polaromonas* sp. Strain JS666: Insights into the Evolution of a Hydrocarbon- and Xenobiotic-Degrading Bacterium, and Features of Relevance to Biotechnology.

Timothy E. Mattes, Anne K. Alexander, Paul M. Richardson, A. Christine Munk, Cliff S. Han, Paul Stothard, and Nicholas V. Coleman

Appl Environmental Microbiology, October 2008; 74(20): 6405–6416.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2570305/>

Evolution of polydom-like molecules: Identification and characterization of cnidarian polydom (*Cnpolydom*) in the basal metazoan *Hydractinia*.

Ryan S. Schwarz, Thomas C.G. Bosch and Luis F. Cadavid

Developmental & Comparative Immunology, October 2008; 32(10): 1192-1210.

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.325.2530&rep=rep1&type=pdf>

Characterization, chromosomal location, and genomic neighborhood of a ratite ortholog of a gene with gonadal expression in mammals.

Daniel E. Janes, Tariq Ezaz, Jennifer A. Marshall Graves, and Scott V. Edwards.

Integrative and Comparative Biology, October 2008; 48(4): 505-511.

<http://icb.oxfordjournals.org/content/48/4/505.long>

Integrated Microfluidic Devices for DNA Sequencing and Single Molecule/cell Genetic Analysis.

Palani Kumaresan

PhD Theses, Fall 2008; Michigan University, Ann Arbor, 199 pp.

<http://search.proquest.com/docview/304696668>

Microbial polynucleotides expressed during infection of a host.

Inventors: Progulske-fox, Ann; Handfield; Brady, Jeannine L.; Hillman, Jeffrey D.

European Patent: EP1238102 B1, Publication Date: 12 November 2008;

<http://www.google.com/patents/EP1238102B1?cl=en>

New metabolites in dibenzofuran cometabolic degradation by a biphenyl-cultivated *Pseudomonas putida* strain B6-2.

Qinggang Li, Xiaoyu Wang, Guangbo Yin, Zhonghui Gai, Hongzhi Tang, Cuiqing Ma, Zixin Deng, and Ping Xu.

Environmental Science & Technology, 15 November 2009; 43(22): 8635-8642.

[The artiodactyl *APOBEC3* innate immune repertoire shows evidence for a multi-functional domain organization that existed in the ancestor of placental mammals.](#)

Rebecca S LaRue, Stefán R Jónsson, Kevin AT Silverstein, Mathieu Lajoie, Denis Bertrand, Nadia El-Mabrouk, Isidro Hötzel, Valgerdur Andrésdóttir, Timothy PL Smith, and Reuben S Harris
BMC Molecular Biology, 18 November 2008; 9: 104, 20 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2612020/>

[Purification and partial genome characterization of the bacterial endosymbiont *Blattabacterium cuenoti* from the fat bodies of cockroaches.](#)

Gaku Tokuda, Nathan Lo, Aya Takase, Akinori Yamada, Yoshinobu Hayashi, Hirofumi Watanabe
BMC Research Notes, 25 November 2008; 1: 118, 9 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2621225/>

[Modified cyanovirin-n polypeptide.](#)

Inventors: Xiaowen Liu, Kirsten Essenmacher, David A. Simpson, and Qiang Xu.
United States Patent: US 7456011 B2, Publication Date: 25 November 2008;
<https://www.google.com/patents/US7456011>

[Organization of the biosynthetic gene cluster for the polyketide antitumor macrolide, pladienolide, in *Streptomyces platensis* Mer-11107.](#)

Kazuhiro Machida, Akira Arisawa, Susumu Takeda, Toshio Tsuchida, Yasuhide Aritoku, Masashi Yoshida and Haruo Ikeda
Bioscience, Biotechnology, and Biochemistry, November 2008; 72(11): 2946-2952.
https://www.jstage.jst.go.jp/article/bbb/72/11/72_80425/_pdf

[Evolution of genes on the *Salmonella* Virulence plasmid phylogeny revealed from sequencing of the virulence plasmids of *S. enterica* serotype Dublin and comparative analysis.](#)

Chishih Chu, Ye Feng, An-Chi Chien, Songnian Hu, Chi-Hong Chu and Cheng-Hsun Chiu
Genomics, November 2008; 92(5): 339-343.
<http://www.sciencedirect.com/science/article/pii/S0888754308001729>

[Sinorhizobium medicae Genome Sequencing, Annotation and Nitrogen Fixation.](#)

Ruihua Shi
PhD theses, November 2008; University of Oklahoma, Norman, OK, 155 pp.

[Ligating sequence tag and digesting modified DNA fragments with methylation-dependent restriction enzyme; used to discover diagnostic biomarkers in patient samples, diagnose disease susceptibility.](#)

Inventors: Nathan D. Lakey, Jeffrey A. Jeddloh, and Yulia Korshunova.
United States Patent: US7459274 B2, Publication Date: 2 December 2008.
<https://www.google.com/patents/US7459274>

[Method for preparing single-stranded DNA libraries.](#)

Assignee: 454 Corporation
EU Patent Application: EP 1997889 A2, 3 December 2008

[High quality draft sequences for prokaryotic genomes using a mix of new sequencing technologies.](#)

Jean-Marc Aury, Corinne Cruaud, Valérie Barbe, Odile Rogier, Sophie Mangenot, Gaele Samson, Julie Poulain, Véronique Anthouard, Claude Scarpelli, François Artiguenave, and Patrick Wincker

BMC Genomics, 16 December 2008; 9: 603.
<http://www.biomedcentral.com/1471-2164/9/603/>

Divergence Across Australia's Carpentarian Barrier: Statistical Phylogeography of the Red-Backed Fairy Wren (*Malurus melanocephalus*).

June Y. Lee and Scott V. Edwards
Evolution, December 2008; 62(12): 3117-3134.
http://isites.harvard.edu/fs/docs/icb.topic1216926.files/Lee_Edwards2008.pdf

Identification of host receptor and receptor-binding module of a newly sequenced T5-like phage EPS7.

Junwoo Hong, Kwang-Pyo Kim, Sunggi Heu, Sang Jun Lee, Sankar Adhya, and Sangryeol Ryu.
FEMS Microbiology Letters, December 2008; 289(2): 202-209.
<http://femsle.oxfordjournals.org/content/289/2/202>

Characterization of Insertion Sites in Rainbow Papaya, the First Commercialized Transgenic Fruit Crop.

Jon Y. Suzuki, Savarni Tripathi, Gustavo A. Fermín, Fuh-Jyh Jan, Shaobin Hou, Jimmy H. Saw, Christine M. Ackerman, Qingyi Yu, Michael C. Schatz, Karen Y. Pitz, Marcela Yépes, Maureen M. M. Fitch, Richard M. Manshardt, Jerry L. Slightom, Stephen A. Ferreira, Steven L. Salzberg, Maqsudul Alam, Ray Ming, Paul H. Moore and Dennis Gonsalves
Tropical Plant Biology, December 2008; 1(3-4): 293-309.
https://www.researchgate.net/profile/Paul_Moore6/publication/225363854_Characterization_of_Insertion_Sites_in_Rainbow_Papaya_the_First_Commercialized_Transgenic_Fruit_Crop/links/0046351e583ec41259000000.pdf

Genome organisation and retrotransposon driven molecular evolution of the endosperm *Hardness (Ha)* locus in *Triticum aestivum* cv Glenlea.

Raja Ragupathy and Sylvie Cloutier
Molecular Genetics and Genomics, December 2008; 280(6): 467-481

Extensive Reorganization of the Plastid Genome of *Trifolium subterraneum* (Fabaceae) Is Associated with Numerous Repeated Sequences and Novel DNA Insertions.

Zhengqiu Cai, Mary Guisinger, Hyi-Gyung Kim, Elizabeth Ruck, John C. Blazier, Vanity McMurtry, Jennifer V. Kuehl, Jeffrey L. Boore and Robert K. Jansen
Journal of Molecular Evolution, December 2008; 67(6): 696-704.
https://www.researchgate.net/profile/Robert_Jansen2/publication/23482692_Extensive_Reorganization_of_the_Plastid_Genome_of_Trifolium_subterraneum_%28Fabaceae%29_Is_Associated_with_Numerous_Repeated_Sequences_and_Novel_DNA_Insertions/links/0c96052a36351e5ea2000000.pdf

Large-scale microfabricated channel plates for high-throughput, fully automated DNA sequencing.

Kumagai, Hidesato, Shinichi Utsunomiya, Shin Nakamura, Rintaro Yamamoto, Akira Harada, Toru Kaji, Makoto Hazama et al. Tetsuo Ohashi, Atsushi Inami, Takashi Ikegami, Keisuke Miyamoto, Naoya Endo, Kenichi Yoshimi, Atsushi Toyoda, Masahira Hattori and Yoshiyuki Sakaki
Electrophoresis, December 2008; 29(23): 4723-4732.

Research on DNA Matching and Classification.

Priti C. Golar, and Urmila N. Shrivankar.
Conference Paper, December 2008; Nagpur, India

http://www.researchgate.net/profile/Urnila_Shrawankar/publication/275947728_Research_on_DNA_Matching_and_Classification/links/554b12040cf29752ee7c395d.pdf

使用边扩增边连接技术以两步PCR反应制备两个癌症候选基因的重测序DNA文库

魏晓, 魏晓, 魏晓, 魏晓, 魏晓, 魏晓, 魏晓, 魏晓

Science in China Series C: Life Sciences, December 2008; 38(12): 1114-1122.

Amniote phylogenomics: testing evolutionary hypotheses with BAC library scanning and targeted clone analysis of large-scale DNA sequences from reptiles.

Andrew M. Shedlock, Daniel E. Janes, and Scott V. Edwards.

Methods Molecular Biology, 2008; 422 (Phylogenomics): 91-117

https://publications.mpi-cbg.de/Ejsmont_2011_4567.pdf

Sequencing and phylogenomic analysis of whole mitochondrial genomes of animals.

Rafael Zardoya, and Mónica Suárez.

Methods Molecular Biology, 2008; 422 (Phylogenomics): 185-200.

<https://intranet.pasteur.edu.uy/publico/bonilla/Protocolos/mmb/422%20-%20Phylogenomics.pdf#page=191>

Genome size, cell size, and the evolution of enucleated erythrocytes in attenuate salamanders.

Rachel L. Mueller, T. Ryan Gregory, Sean M. Gregory, Alice Hsieh, and Jeffrey L. Boore

Zoology (Jena), 2008; 111(3): 218–230.

Comparative analysis of human chromosome 22 NF2 region and gene expression profiling of human orthologs in zebrafish early developmental stages via whole mount in situ hybridization.

Jianfeng Li

PhD Theses, 2008; University of Oklahoma, Norman, OK, 136 pp.

https://books.google.com/books?hl=en&lr=&id=AnpfFNG9V0MC&oi=fnd&pg=PR8&dq=HydroShear+DNA+OR+Digilab+OR+oligonucleotide&ots=PtVobcnEpY&sig=gVw4JuQHBgOsximqJD_TbhUiHjI#v=onepage&q=HydroShear%20DNA%20OR%20Digilab%20OR%20oligonucleotide&f=false

Sequencing *Medicago truncatula* Chromosome 4, expression profiling and genomic organization of NBS-LRR genes.

Shweta Deshpande

PhD Theses, 2008; University of Oklahoma, Norman, OK, 116 pp.

<https://books.google.com/books?hl=en&lr=&id=tBhSR4oNMdgc&oi=fnd&pg=PR4&ots=SHNu9rgYq&sig=xXVH60fUKMZt4NQfhvLhTIk2oZE#v=onepage&q&f=false>

Sequencing and analysis of *Medicago truncatula* chromosome 6 and evolution of the RPG1 resistance cluster in soybean.

Majesta S. O'Bleness

PhD Theses, 2008; University of Oklahoma, Norman, OK, 87 pp.

Sequencing of *Medicago truncatula* genome and studies of metabolic gene organization and expression profile.

Iryna F. Sanders

PhD Theses, 2008; University of Oklahoma, Norman, OK, 132 pp.

**CLONEPLEX-AK Library Construction Kit.
ePlex-AK Dual Insert Cloning Kit Manual.**

Lucigen, Co., 2008

http://www.lucigen.com/catalog/images/pdfs/prod_manuals/MA008_ClonePlex-AK_v9.3.pdf

OverExpress™ Electrocompetent Cells.

Lucigen, Co., 2008

https://www.lucigen.com/catalog/images/pdfs/prod_manuals/MA032%20OverExpress%20Electrocompetent%20Cells%20v2.1.pdf

BIGEASY ChimeraFree Cloning Kit.

Lucigen, Co., 2008

http://www.lucigen.com/catalog/images/pdfs/prod_manuals/MA046_BigEasyChimeraFreeCloningKit_v1.7.pdf

Bias-free cloning of “unclonable” DNA for simplified genomic finishing.

Ronald Godiska, DA Mead, Vinay Dhodda, Rebecca Hochstein, Attila Karsi, Nikolai Ravin, CC Wu.
In: *DNA sequencing III: Dealing with difficult templates*, 2008; Jones & Bartlett Pub

Genetic analysis of equine 2', 5'-oligoadenylate synthetase (OAS1) and ribonuclease L (RNaseL) polymorphisms and association to severe West Nile virus disease.

Jonathan Joseph Rios

PhD Theses, 2008; Texas A&M University.

<http://search.proquest.com/docview/89231287>

Construction and phenotypic screening of mid-size insert marine microbial environmental genomic libraries.

Jennifer C. Braff

MS Theses, 2008; Massachusetts Institute of Technology.

<http://dspace.mit.edu/handle/1721.1/43722>

An Applied Genomics Approach to Understanding Antibiotic Resistance in Pseudomonas Aeruginosa.

Julie Struble

PhD Theses, 2008; University of Colorado, 148 pp.

2007.

Koji mold-origin phospholipase a2.

Inventors: Katsuhiko Kitamoto, Manabu Arioka, Shotaro Yamaguchi, Masayuki Machida, Keletsu Abe, Katsuya Gomi, Kiyoshi Asai, Motoaki Sano, Taishin Kin, Hideki Nagasaki, Akira Hosoyama, Osamu Akita, Naotake Ogasawara, Satoru Kuhara.

US Patent Application: 2007/0004003 A1, Publication Date: 4 January 2007

The DNA sequence of medaka chromosome LG22.

Takashi Sasaki, Atsushi Shimizu, Sabine K. Ishikawa, Shuichiro Imai, Shuichi Asakawa, Yuji Murayama, Maryam Zadeh Khorasani, Hiroshi Mitani, Makoto Furutani-Seiki, Hisato Kondoh,

Indrajit Nanda, Michael Schmid, Manfred Schartl, Masaru Nonaka, Hiroyuki Takeda, Hiroshi Hori, Heinz Himmelbauer, Akihiro Shima and Nobuyoshi Shimizu
Genomics, January 2007; 89(1): 124-133

[A North American *Yersinia pestis* Draft Genome Sequence: SNPs and Phylogenetic Analysis](#)

Jeffrey W. Touchman, David M. Wagner, Jicheng Hao, Stephen D. Mastrian, Maulik K. Shah, Amy J. Vogler, Christopher J. Allender, Erin A. Clark, Debbie S. Benitez, David J. Youngkin, Jessica M. Girard, Raymond K. Auerbach, Stephen M. Beckstrom-Sternberg, and Paul Keim
PLoS One, 21 February 2007; 2(2): e220, 5 pp.

[Viral metagenomics.](#)

Delwart, Eric L.

Reviews in Medical Virology, March 2007; 17(2): 115-131(17)

[A comparative analysis of the *Lactuca* and *Helianthus* \(Asteraceae\) plastid genomes: identification of divergent regions and categorization of shared repeats.](#)

Ruth E. Timme, Jennifer V. Kuehl, Jeffrey L. Boore and Robert K. Jansen
American Journal of Botany, March 2007; 94(3): 302-312

[DNA coding for polypeptide participating in biosynthesis of pladienolide.](#)

Inventors: Kazuhiro Machida, Akira Arisawa, Susumu Takeda, Masashi Yoshida, Toshio Tsuchida
EU Patent Application: EP1770165 A4, Publication Date: 4 April 2007.

[Complete chloroplast genome sequences of *Drimys*, *Liriodendron*, and *Piper*: Implications for the phylogeny of magnoliids and the evolution of GC content.](#)

C. Zhengqiu, C. Penafior, J.V. Kuehl, J. Leebens-Mack, J. Carlson, C. W. dePamphilis, J. L. Boore, and R. K. Jansen

Lawrence Berkeley National Laboratory. 16 April 2007; LBNL Paper LBNL-60483.

<http://www.escholarship.org/uc/item/9st9z7c8>

[The Complete Plastid Genome Sequence of *Angiopteris evecta* \(G. Forst.\) Hoffm. \(Marattiaceae\)](#)

Jessie M. Roper, S. Kellon Hansen, Paul G. Wolf1, Kenneth G. Karol, Dina F. Mandoli, Karin D. E. Everett, Jennifer Kuehl, and Jeffrey L. Boore

American Fern Journal, April 2007; 97(2): 95-106.

[Gene capture and random amplification for quantitative recovery of homologous genes.](#)

Laurel D. Crosby and Craig S. Criddle

Molecular and Cellular Probes, April 2007; 21(2): 140-147

[Sequence and organization of the *Heliothis virescens* ascovirus genome.](#)

Sassan Asgari, John Davis, David Wood, Peter Wilson and Annette McGrath

J Gen Virology, April 2007; 88(4): 1120-1132.

[Sequence analysis of the mobilizable lactococcal plasmid pGdh442 encoding glutamate dehydrogenase activity.](#)

Catherine Tanous, Emilie Chambellon and Mireille Yvon

Microbiology, May 2007; 153(5): 1664-1675.

[Mitochondrial genome sequences and comparative genomics of *Phytophthora ramorum* and *P. sojae*.](#)

Frank N. Martin, Douda Bensasson, Brett M. Tyler and Jeffrey L. Boore
Current Genetics, May 2007; 51(5): 285-296

[The complete mitochondrial genome of the Hawaiian anchialine shrimp *Halocaridina rubra* Holthuis, 1963 \(Crustacea: Decapoda: Atyidae\).](#)

Jennifer L. Ivey and Scott R. Santos
Gene, 1 June 2007; 394(1-2): 35-44

[Microcolinearity and genome evolution in the AdhA region of diploid and polyploid cotton \(*Gossypium*\).](#)

Corrinne E. Grover, HyeRan Kim, Rod A. Wing, Andrew H. Paterson, Jonathan F. Wendel
Plant Journal, June 2007; 50(6): 995-1006.

[Chloroplast Genome \(cpDNA\) of *Cycas taitungensis* and 56 cp Protein-Coding Genes of *Gnetum parvifolium*: Insights into cpDNA Evolution and Phylogeny of Extant Seed Plants.](#)

Chung-Shien Wu, Ya-Nan Wang, Shu-Mei Liu and Shu-Miaw Chaw
Mol Biol Evolution, June 2007; 24(6): 1366-1379.

[Polypeptide encoded by a nucleotide sequence of a nontypeable strain of *Haemophilus influenzae* genome.](#)

Inventors: Lauren O. Bakaletz, Robert S. Munson Jr., David W. Dyer
United States Patent: US 7241867 B2, Publication Date: 10 July 2007

[Complete Mitochondrial Genome Sequence of Three *Tetrahymena* Species Reveals Mutation Hot Spots and Accelerated Nonsynonymous Substitutions in Ymf Genes](#)

Mike M. Moradian, Denis Beglaryan, Jill M. Skozylas, and Varand Kerikorian
PLoS One, 25 July 2007; 2(7): e650, 12 pp.

[Asymmetrical adapters and methods of use thereof.](#)

Inventors: Douglas R. Smith and Joel A. Malek
US Patent Application: 2007/0172839 A1, Publication Date: 26 July 2007

[Comparative Sequence Analysis of Plasmids from *Lactobacillus delbrueckii* and Construction of a Shuttle Cloning Vector](#)

Ju-Hoon Lee, Jamie S. Halgerson, Jeong-Hwan Kim, and Daniel J. O'Sullivan
Applied and Environmental Microbiology, July 2007; 73(14): 4417-4424

[Genomic sequence of a clonal isolate of the vaccinia virus Lister strain employed for smallpox vaccination in France and its comparison to other orthopoxviruses.](#)

Aude Garcel, Jean-Marc Crance, Robert Drillien, Daniel Garin and Anne-Laure Favier
J General Virology, July 2007; 88(7): 1906-1916.

[Analysis of the Orchid Genome Size Using Flow Cytometry.](#)

Tsai-Yun Lin and Hsiao-Ching Lee
In: *Orchid Biotechnology*, Wen-Huei Chen & Hong-Hwa Chen, Eds, World Scientific Pub Co Inc., July 2007; p. 99-114.

[Analysis of the Chloroplast Genome of *Phalaenopsis Aphrodite*.](#)

Ching-Chun Chang, Hsien-Chia Lin and Wun-Hong Zeng

In: *Orchid Biotechnology*, Wen-Huei Chen & Hong-Hwa Chen, Eds, World Scientific Pub Co Inc., July 2007; p.129-144

Methods and compositions for determining methylation profiles.

Inventors: Robert Martienssen, Eric J. Richards, Zachary Lippmann, Vincent Colot
US Patent Application: 2007/0178506 A1, Publication Date: 2 August 2007

Methods for mutation detection.

Inventors: J. William Efcavitch, Marie Sutherlin Causey
US Patent Application: 2007/0196832 A1, Publication Date: 23 August 2007;

Insights into the Genome of Large Sulfur Bacteria Revealed by Analysis of Single Filaments

Marc Mußmann, Fen Z Hu, Michael Richter, Dirk de Beer, André Preisler, Bo B Jørgensen, Marcel Huntemann, Frank Oliver Glöckner, Rudolf Amann, Werner J. H Koopman, Roger S Lasken, Benjamin Janto, Justin Hogg, Paul Stoodley, Robert Boissy, and Garth D Ehrlich
PLoS Biology, 28 August 2007; 5(9): e230, 15 pp.

Transposable element distribution, abundance and role in genome size variation in the genus *Oryza*

Andrea Zuccolo, Aswathy Sebastian, Jayson Talag, Yeisoo Yu, HyeRan Kim, Kristi Collura, Dave Kudrna, and Rod A Wing
BMC Evolutionary Biology, 29 August 2007; 7: 152, 15 pp.

Comparative Metagenomics Revealed Commonly Enriched Gene Sets in Human Gut Microbiomes.

Ken Kurokawa, Takehiko Itoh, Tomomi Kuwahara, Kenshiro Oshima, Hidehiro Toh, Atsushi Toyoda, Hideto Takami, Hidetoshi Morita, Vineet K. Sharma, Tulika P. Srivastava, Todd D. Taylor, Hideki Noguchi, Hiroshi Mori, Yoshitoshi Ogura, Dusko S. Ehrlich, Kikuji Itoh, Toshihisa Takagi, Yoshiyuki Sakaki, Tetsuya Hayashi and Masahira Hattori
DNA Research, 31 August 2007; 14(4): 169-181.

Chromosomal location and gene paucity of the male specific region on papaya Y chromosome.

Qingyi Yu, Shaobin Hou, Roman Hobza, F. Alex Feltus, Xiue Wang, Weiwei Jin, Rachel L. Skelton, Andrea Blas, Cornelia Lemke, Jimmy H. Saw, Paul H. Moore, Maqsudul Alam, Jiming Jiang, Andrew H. Paterson, Boris Vyskot and Ray Ming
Molecular Genetics and Genomics, August 2007; 278(2): 177-185

Characterization of the equine 2'-5' oligoadenylate synthetase 1 (OAS1) and ribonuclease L (RNASEL) innate immunity genes.

Jonathan J Rios, Andrey A Pereygin, Maureen T Long, Teri L Lear, Andrey A Zharkikh, Margo A Brinton and David L Adelson
BMC Genomics, 7 September 2007; 8: 313, 14 pp.

Comparative phylogenomic analyses of teleost fish Hox gene clusters: lessons from the cichlid fish *Astatotilapia burtoni*

Simone Hoegg, Jeffrey L Boore, Jennifer V Kuehl, and Axel Meyer
BMC Genomics, 10 September 2007; 8: 317, 16 pp.
<http://www.biomedcentral.com/1471-2164/8/317>

[Cloning, expression, and biochemical characterization of a new histone deacetylase-like protein from *Thermus caldophilus* GK24.](#)

Young Mi Song, You Sun Kim, Dooil Kim, Dae Sil Lee and Ho Jeong Kwon
Biochemical and Biophysical Research Communications, 14 September 2007; 361(1): 55-61.

[Identification, cloning, and characterization of a multicomponent biphenyl dioxygenase from *Sphingobium yanoikuyae* B1](#)

Sinéad M. Ní Chadhain, Elizabeth M. Moritz, Eungbin Kim and Gerben J. Zylstra
Journal of Industrial Microbiology and Biotechnology, September 2007; 34(9): 605-613

[Nucleic acid interaction analysis.](#)

Inventors: Yijun Ruan, Melissa Jane Fullwood, Chia Lin Wei, Huck Hui Ng (Assignee: Agency for Science, Technology and research, Singapore)

US Patent Application: 2007/0238101 A1, Publication Date: 11 October 2007;

[Paired-End Mapping Reveals Extensive Structural Variation in the Human Genome.](#)

Jan O. Korbel, Alexander Eckehart Urban, Jason P. Affourtit, Brian Godwin, Fabian Grubert, Jan Fredrik Simons, Philip M. Kim, Dean Palejev, Nicholas J. Carriero, Lei Du, Bruce E. Taillon, Zhoutao Chen, Andrea Tanzer, A. C. Eugenia Saunders, Jianxiang Chi, Fengtang Yang, Nigel P. Carter, Matthew E. Hurles, Sherman M. Weissman, Timothy T. Harkins, Mark B. Gerstein, Michael Egholm, Michael Snyder
Science, 19 October 2007; 318(5849): 420-426

[Molecular Correlates of Host Specialization in *Staphylococcus aureus*](#)

Lisa Herron-Olson, J. Ross Fitzgerald, James M. Musser, and Vivek Kapur
PLoS ONE, 31 October 2007; 2(10): e1120, 13 pp.

[Contrasting Rates of Evolution in Pm3 Loci From Three Wheat Species and Rice](#)

Thomas Wicker, Nabila Yahiaoui, and Beat Keller
Genetics, October 2007; 177(2): 1207–1216.

[Cot-based cloning and sequencing of the short arm of wheat chromosome 1B.](#)

H. Šimková, J. Janda, E. Hřibová, J. Šafář, J. Doležal
Plant Soil and Environment, October 2007; 53(10): 437–441

[β-agarase isolated from *Thalassomonas agarivorans*, preparation process and uses thereof.](#)

Inventor: Phillip Brumm (Assignee: C5-6 Technologies)
US Patent Application: 2007/0256197, Publication Date: 1 November 2007;

[Comparative genomic analysis for the presence of potential enterococcal virulence factors in the probiotic *Enterococcus faecalis* strain Symbioflor 1](#)

Eugen Domann, Torsten Hain, Rohit Ghai, André Billion, Carsten Kuenne, Kurt Zimmermann and Trinad Chakraborty
International Journal of Medical Microbiology, 12 November 2007; 297(7-8): 533-539

[Genes of an Otitis Media Isolate of Nontypeable *Haemophilus Influenzae*.](#)

Inventors: Lauren O. Bakaletz, Robert S. Munson JR., David W. Dyer
US Patent Application: 2007/0264256 A1, Publication Date: 15 November 2007;

Capture and random amplification protocol for identification and monitoring of microbial diversity.

Inventors: Laurel Diane Crosby, Craig S. Criddle

US Patent Application: 2007/0264636 A1, Publication Date: 15 November 2007;

Comparison of Genomes of Three *Xanthomonas oryzae* Bacteriophages

Chia-Ni Lee, Rouh-Mei Hu, Teh-Yuan Chow, Juey-Wen Lin, Hui-Yi Chen, Yi-Hsiung Tseng, and Shu-Fen Weng

BMC Genomics, 29 November 2007; 8: 442, 11 pp.

Lateral gene transfer between obligate intracellular bacteria: Evidence from the *Rickettsia massiliae* genome

Guillaume Blanc, Hiroyuki Ogata, Catherine Robert, Stéphane Audic, Jean-Michel Claverie, and Didier Raoult

Genome Research, November 2007; 17(11): 1657–1664.

Metagenomic and Small-Subunit rRNA Analyses Reveal the Genetic Diversity of Bacteria, Archaea, Fungi, and Viruses in Soil

Noah Fierer, Mya Breitbart, James Nulton, Peter Salamon, Catherine Lozupone, Ryan Jones, Michael Robeson, Robert A. Edwards, Ben Felts, Steve Rayhawk, Rob Knight, Forest Rohwer, and Robert B. Jackson

Applied and Environmental Microbiology, November 2007; 73(21): 7059–7066.

Complete nucleotide sequence of pLD-TEX-KL, a 66-kb plasmid of *Legionella dumoffii* TEX-KL strain

Tian Qin, Hideki Hirakawa, Ken-ichiro Iida, Kenshiro Oshima, Masahira Hattori, Kosuke Tashiro, Satoru Kuhara and Shin-ichi Yoshida

Plasmid, November 2007; 58(3): 261-268.

Phylogenetic and evolutionary implications of complete chloroplast genome sequences of four early-diverging angiosperms: *Buxus* (*Buxaceae*), *Chloranthus* (*Chloranthaceae*), *Dioscorea* (*Dioscoreaceae*), and *Illicium* (*Schisandraceae*)

Debra R. Hansen, Sayantani G. Dastidar, Zhengqiu Cai, Cynthia Penaflor, Jennifer V. Kuehl, Jeffrey L. Boore and Robert K. Jansen

Molecular Phylogenetics and Evolution, November 2007; 45(2): 547-563.

Genetically Distinct and Clinically Relevant Classification of Hepatocellular Carcinoma: Putative Therapeutic Targets

Hiroto Katoh, Hidenori Ojima, Akiko Kokubu, Shigeru Saito, Tadashi Kondo, Tomoo Kosuge, Fumie Hosoda, Issei Imoto, Johji Inazawa, Setsuo Hirohashi, Tatsuhiro Shibata

Gastroenterology, November 2007; 133(5): 1475-1486.

Analysis of the Neurotoxin Complex Genes in *Clostridium botulinum* A1-A4 and B1 Strains: BoNT/A3, /Ba4 and /B1 Clusters Are Located within Plasmids.

Theresa J. Smith, Karen K. Hill, Brian T. Foley, John C. Detter, A. Christine Munk, David C. Bruce, Norman A. Doggett, Leonard A. Smith, James D. Marks, Gary Xie, and Thomas S. Brettin

PLoS One, 5 December 2007; 2(12): e1271, 10 pp.

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0001271>

Patterns of Genome Evolution among the Microsporidian Parasites *Encephalitozoon cuniculi*, *Antonospora locustae* and *Enterocytozoon bieneusi*.

Nicolas Corradi, Donna E. Akiyoshi, Hilary G. Morrison, Xiaochuan Feng, Louis M. Weiss, Saul Tzipori, and Patrick J. Keeling
PLoS One, 5 December 2007; 2(12): e1277, 8 pp.

A portrait of copy-number polymorphism in *Drosophila melanogaster*.

Erik B. Dopman and Daniel L. Hartl
Proc Natl Academy Sciences U S A, 11 December 2007; 104(50): 19920–19925.

Method of controlling the flavor of alcoholic drink.

Inventors: Naoyuki Kobayashi, Masahide Sato, Syunsuke Fukuhara, Shigehisa Yokoi,
European Patent Application: EP1865072 A1, Publication Date: 12 December 2007; pp.1-34.
<http://www.google.com/patents/EP1865072A1?cl=en>

Identification of Novel High-Frequency DNA Methylation Changes in Breast Cancer.

Jared M. Ordway, Muhammad A. Budiman, Yulia Korshunova, Rebecca K. Maloney, Joseph A. Bedell, Robert W. Citek, Blaire Bacher, Seth Peterson, Tracy Rohlfing, Jacqueline Hall, Robert Brown, Nathan Lakey, Rebecca W. Doerge, Robert A. Martienssen, Jorge Leon, John D. McPherson, and Jeffrey A. Jeddloh
PLoS One, 19 December 2007; 2(12): e1314.

A High Quality Draft Consensus Sequence of the Genome of a Heterozygous Grapevine Variety

Riccardo Velasco, Andrey Zharkikh, Michela Troggio, Dustin A. Cartwright, Alessandro Cestaro, Dmitry Pruss, Massimo Pindo, Lisa M. FitzGerald, Silvia Vezzulli, Julia Reid, Giulia Malacarne, Diana Iliev, Giuseppina Coppola, Bryan Wardell, Diego Micheletti, Teresita Macalma, Marco Facci, Jeff T. Mitchell, Michele Perazzolli, Glenn Eldredge, Pamela Gatto, Rozan Oyzerski, Marco Moretto, Natalia Gutin, Marco Stefanini, Yang Chen, Cinzia Segala, Christine Davenport, Lorenzo Demattè, Amy Mraz, Juri Battilana, Keith Stormo, Fabrizio Costa, Quanzhou Tao, Azeddine Si-Ammour, Tim Harkins, Angie Lackey, Clotilde Perbost, Bruce Taillon, Alessandra Stella, Victor Solovyev, Jeffrey A. Fawcett, Lieven Sterck, Klaas Vandepoele, Stella M. Grando, Stefano Toppo, Claudio Moser, Jerry Lanchbury, Robert Bogden, Mark Skolnick, Vittorio Sgaramella, Satish K. Bhatnagar, Paolo Fontana, Alexander Gutin, Yves Van de Peer, Francesco Salamini, and Roberto Viola
PLoS One, 19 December 2007; 2(12): e1326.

Multiple Origins and Rapid Evolution of Duplicated Mitochondrial Genes in Parthenogenetic Geckos (*Heteronotia binoei*; Squamata, Gekkonidae).

Matthew K. Fujita, Jeffrey L. Boore, and Craig Moritz
Mol Biology Evolution, December 2007; 24(12): 2775-2786.

Genomic sequence analysis of a nucleopolyhedrovirus isolated from the diamondback moth, *Plutella xylostella*.

Robert L. Harrison and Dwight E. Lynn
Virus Genes, December 2007; 35(3): 857-873.

2006.

Solid phase technique for selectively isolating nucleic acids.

Inventors: Kevin McKernan, Paul McEwan, William Morris

US Patent Application: 2006/0003357 A1, Publication Date: 5 January 2006

Complete chloroplast genome of *Trachelium caeruleum*: extensive rearrangements are associated with repeats and tRNAs.

Rosemarie C. Haberle, Matthew L. Fourcade, Jeffrey L. Boore, and Robert K. Jansen.

Lawrence Berkeley National Laboratory, 9 January 2006 LBNL-59348, 32 pp.

<http://www.osti.gov/scitech/servlets/purl/929094>

Unusual gene order and organization of the sea urchin hox cluster.

R. Andrew Cameron, Lee Rowen, Ryan Nesbitt, Scott Bloom, Jonathan P. Rast, Kevin Berney, Cesar Arenas-Mena, Pedro Martinez, Susan Lucas, Paul M. Richardson, Eric H. Davidson, Kevin J. Peterson, Leroy Hood

J Exp Zoology, B (Mol Dev Evolution), 15 January 2006; 306(1): 45-58.

The phylogeny of Mediterranean tortoises and their close relatives based on complete mitochondrial genome sequences from museum specimens.

James F. Parham, J. Robert Macey, Theodore J. Papenfuss, Chris R. Feldman, Oguz Türkozan, Rosa Polymeni and Jeffrey Boore

Molecular Phylogenetics and Evolution, January 2006, Pages 38(1): 50-64

Utilization of a zebra finch BAC library to determine the structure of an avian androgen receptor genomic region.

Meizhong Luo, Yeisoo Yu, HyeRan Kim, Dave Kudrna, Yuichiro Itoh, Robert J. Agate, Esther Melamed, José L. Goicoechea, Jayson Talag, Christopher Mueller, Wenming Wang, Jennifer Currie, Nicholas B. Sisneros, Rod A. Wing and Arthur P. Arnold

Genomics, January 2006; 87(1): 181-190

Characterization, Distribution, and Expression of Novel Genes among Eight Clinical Isolates of *Streptococcus pneumoniae*.

Kai Shen, John Gladitz, Patricia Antalis, Bethany Dice, Benjamin Janto, Randy Keefe, Jay Hayes, Azad Ahmed, Richard Dopico, Nathan Ehrlich, Jennifer Jocz, Laura Kropp, Shujun Yu, Laura Nistico, David P. Greenberg, Karen Barbadora, Robert A. Preston, J. Christopher Post, Garth D. Ehrlich, and Fen Z. Hu

Infection and Immunity, January 2006; 74(1): 321-330.

Sequence Analysis of Two Cryptic Plasmids from *Bifidobacterium longum* DJO10A and Construction of a Shuttle Cloning Vector

Ju-Hoon Lee and Daniel J. O'Sullivan

Applied and Environmental Microbiology, January 2006; 72(1): 527-535

Methods and reagents for the isolation of nucleic acids.

Inventor: Kevin J. McKernan

US Patent Application: 2006/0024701 A1, Publication Date: 2 February 2006;

The complete mitochondrial genome of the enigmatic bigheaded turtle (*Platysternon*): description of unusual genomic features and the reconciliation of phylogenetic hypotheses based on mitochondrial and nuclear DNA

James F Parham, Chris R Feldman, and Jeffrey L Boore

BMC Evolutionary Biology, 7 February 2006; 6: 11, 11 pp.

<http://www.biomedcentral.com/1471-2148/6/11>

[Comparison of dot chromosome sequences from *D. melanogaster* and *D. virilis* reveals an enrichment of DNA transposon sequences in heterochromatic domains.](#)

Elizabeth E Slawson, Christopher D Shaffer, Colin D Malone, Wilson Leung, Elmer Kellmann, Rachel B Shevchek, Carolyn A Craig, Seth M Bloom, James Bogenpohl II, James Dee, Emiko TA Morimoto, Jenny Myoung, Andrew S Nett, Fatih Ozsolak, Mindy E Tittiger, Andrea Zeug, Mary-Lou Pardue, Jeremy Buhler, Elaine R Mardis and Sarah CR Elgin

Genome Biology, 20 February 2006; 7: R15, 18 pp.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1431729/>

[Isolation and Characterization of a Cyanophage Infecting the Toxic Cyanobacterium](#)

[Microcystis aeruginosa](#)

Takashi Yoshida, Yukari Takashima, Yuji Tomaru, Yoko Shirai, Yoshitake Takao, Shingo Hiroishi, and Keizo Nagasaki

Applied and Environmental Microbiology, February 2006; 72(2): 1239–1247

[Genomic sequence analysis of a potential QTL region for fat trait on pig chromosome 6.](#)

Kyung-Tai Lee, Eung-Woo Park, Sunjin Moon, Hye-Sook Park, Hyung-Yong Kim, Gil-Won Jang, Bong-Hwan Choi, H.Y. Chung, Ji-Woong Lee, Il-Cheong Cheong, Sung-Jong Oh, Heebal Kim, Dong-Sang Suh and Tae-Hun Kim

Genomics, February 2006; 87(2): 218-224

[Defective repair of radiation-induced DNA damage is complemented by a CHORI-230-65K18 BAC clone on rat chromosome 4.](#)

Atsushi B. Tsuji, Aya Sugyo, Hitomi Sudo, Masashi Sagara, Atsuko Ishikawa, Marika Ohtsuki, Tomo Kimura, Toshiaki Ogiu, Makoto Miyagishi, Kazunari Taira, Takashi Imai, Yoshi-nobu Harada

Genomics, February 2006; 87(2): 236-242

[Genomic structure, promoter analysis and expression of the porcine \(*Sus scrofa*\) TLR4 gene.](#)

Anne V. Thomas, Aurore D. Broers, Hélène F. Vandegaart and Daniel J.-M. Desmecht

Molecular Immunology, February 2006; 43(6): 653-659

[The Chloroplast Genome of *Phalaenopsis aphrodite* \(Orchidaceae\): Comparative Analysis of Evolutionary Rate with that of Grasses and Its Phylogenetic Implications.](#)

Ching-Chun Chang, Hsien-Chia Lin, I-Pin Lin, Teh-Yuan Chow, Hong-Hwa Chen, Wen-Huei Chen, Chia-Hsiung Cheng, Chung-Yen Lin, Shu-Mei Liu, Chien-Chang Chang and Shu-Miaw Chaw

Mol Biol Evolution, February 2006; 23(2): 279-291.

[Pathways of Carbon Assimilation and Ammonia Oxidation Suggested by Environmental Genomic Analyses of Marine *Crenarchaeota*.](#)

Steven J. Hallam, Tracy J. Mincer, Christa Schleper, Christina M. Preston, Katie Roberts, Paul M. Richardson, Edward F. DeLong

PLoS Biology, 21 March 2006; 4(4): e95.

[A Segment of the Apospory-Specific Genomic Region Is Highly Microsyntenic Not Only between the Apomicts *Pennisetum squamulatum* and Buffelgrass, But Also with a Rice Chromosome 11 Centromeric-Proximal Genomic Region](#)

Gustavo Gualtieri, Joann A. Conner, Daryl T. Morishige, L. David Moore, John E. Mullet, and Peggy Ozias-Akins
Plant Physiology, March 2006; 140(3): 963–971

[Decoding the fine-scale structure of a breast cancer genome and transcriptome](#)

Stanislav Volik, Benjamin J. Raphael, Guiqing Huang, Michael R. Stratton, Graham Bignel, John Murnane, John H. Brebner, Krystyna Bajsarowicz, Pamela L. Paris, Quanzhou Tao, David Kowbel, Anna Lapuk, Dmitri A. Shagin, Irina A. Shagina, Joe W. Gray, Jan-Fang Cheng, Pieter J. de Jong, Pavel Pevzner, and Colin Collins
Genome Research, March 2006; 16(3): 394–404.

[The Fanconi anemia gene network is conserved from zebrafish to human.](#)

Tom A. Titus, Daniel R. Selvig, Baifang Qin, Catherine Wilson, Amber M. Starks, Bruce A. Roe and John H. Postlethwait
Gene, 26 April 2006; 371(2): 211-223

[The chloroplast genome of *Nicotiana sylvestris* and *Nicotiana tomentosiformis* : complete sequencing confirms that the *Nicotiana sylvestris* progenitor is the maternal genome donor of *Nicotiana tabacum*.](#)

M. Yukawa, T. Tsudzuki and M. Sugiura
Molecular Genetics and Genomics, April 2006; 275(4): 367-373

[Pathways of Carbon Assimilation and Ammonia Oxidation Suggested by Environmental Genomic Analyses of Marine *Crenarchaeota*](#)

Steven J Hallam, Tracy J Mincer, Christa Schleper, Christina M Preston, Katie Roberts, Paul M Richardson, and Edward F DeLong
PLoS Biology, April 2006; 4(4): e95.

[Complete sequence and organization of the cucumber \(*Cucumis sativus* L. cv. Baekmibaekdadagi\) chloroplast genome.](#)

Jin-Seog Kim, Jong Duk Jung, Jung-Ae Lee, Hyun-Woo Park, Kwang-Hoon Oh, Won-Joong Jeong, Dong-Woog Choi, Jang Ryol Liu and Kwang Yun Cho
Plant Cell Reports, April 2006; 25(4): 334-340

[Genome Sequence of *Rickettsia bellii* Illuminates the Role of Amoebae in Gene Exchanges between Intracellular Pathogens](#)

Hiroyuki Ogata, Bernard La Scola, Stéphane Audic, Patricia Renesto, Guillaume Blanc, Catherine Robert, Pierre-Edouard Fournier, Jean-Michel Claverie, and Didier Raoult
PLoS Genetics, 12 May 2006; 2(5): e76.

[Living with Genome Instability: the Adaptation of Phytoplasmas to Diverse Environments of Their Insect and Plant Hosts](#)

Xiaodong Bai, Jianhua Zhang, Adam Ewing, Sally A. Miller, Agnes Jancso Radek, Dmitriy V. Shevchenko, Kiryl Tsukerman, Theresa Walunas, Alla Lapidus, John W. Campbell, and Saskia A. Hogenhout
J Bacteriology, May 2006; 188(10): 3682–3696

[Rolling circle amplification of metazoan mitochondrial genomes.](#)

W. Brian Simison, D.R. Lindberg and J.L. Boore
Molecular Phylogenetics and Evolution, May 2006; 39(2): 562-567

Comparative genomic organization of the human and bovine PRNP locus.

Sang-Haeng Choi, Il-Chul Kim, Dae-Soo Kim, Dae-Won Kim, Sung-Hwa Chae, Han-Ho Choi, Inho Choi, Jung-Sou Yeo, Mi-Na Song and Hong-Seog Park
Genomics, May 2006; 87(5): 598-607

Construction of a watermelon BAC library and identification of SSRs anchored to melon or Arabidopsis genomes.

T. Joobeur, G. Gusmini, X. Zhang, A. Levi, Y. Xu, T. C. Wehner, M. Oliver and R. A. Dean
TAG Theoretical and Applied Genetics, May 2006; 112(8): 1553-1562

Naked corals: Skeleton loss in Scleractinia

Mónica Medina, Allen G. Collins, Tori L. Takaoka, Jennifer V. Kuehl, and Jeffrey L. Boore
Proc Natl Academy of Science U S A, 13 June 2006; 103(24): 9096–9100.

Sequencing genomes from single cells by polymerase cloning.

Kun Zhang, Adam C Martiny, Nikos B Reppas, Kerrie W Barry, Joel Malek, Sallie W Chisholm & George M Church
Nature Biotechnology, June 2006; 24(6): 680-686

Operational streamlining in a high-throughput genome sequencing center.

Kerry P. Person
MBA and MS Theses, MIT, June 2006; pp.1-104
<http://dspace.mit.edu/handle/1721.1/37248>

Chromosomal and phylogenetic context for conglutin genes in Arachis based on genomic sequence.

M. Laura Ramos, Geraldine Fleming, Ye Chu, Yukio Akiyama, Maria Gallo and Peggy Ozias-Akins
Molecular Genetics and Genomics, June 2006; 275(6): 578-592

The complete mitochondrial genome of an agamid lizard from the Afro-Asian subfamily agaminae and the phylogenetic position of Bufoniceps and Xenagama.

J. Robert Macey, James A. Schulte II, Jonathan J. Fong, Indraneil Das and Theodore J. Papenfuss
Molecular Phylogenetics and Evolution, June 2006; 39(3): 881-886

Joint Genome Institute's Automation Approach and History.

Roberts, Simon.
Lawrence Berkeley National Laboratory, 5 July 2006; LBNL Paper LBNL-60620
(<http://escholarship.org/uc/item/64c1d2hr>)

Bcep176 and Bglu421 - two novel phages contributing to the understanding of pathogenicity and diversity in Burkholderiaceae.

Mera, Linet
Senior Scholars Theses, Texas A&M University, 11 July 2006; p.1-62

Facile Recovery of Individual High-Molecular-Weight, Low-Copy-Number Natural Plasmids for Genomic Sequencing

Laura E. Williams, Chris Detter, Kerrie Barry, Alla Lapidus, and Anne O. Summers
Applied and Environmental Microbiology, July 2006; 72(7): 4899–4906

Sequence Analysis and Organization of the *Neodiprion abietis* Nucleopolyhedrovirus Genome

Simon P. Duffy, Aaron M. Young, Benoit Morin, Christopher J. Lucarotti, Ben F. Koop, and David B. Levin

J. Virology, July 2006; 80(14): 6952–6963

Unique features of the apoptotic endonuclease DFF40/CAD relative to micrococcal nuclease as a structural probe for chromatin.

Piotr Widlak and William T. Garrard

Biochem Cell Biology, August 2006; 84(4): 405-410.

Characterization of four *Rhodococcus* alcohol dehydrogenase genes responsible for the oxidation of aromatic alcohols.

Xue Peng, Hironori Taki, Syoko Komukai, Mitsuo Sekine, Kaneo Kanoh, Hiroaki Kasai, Seon-Kang Choi, Seiha Omata, Satoshi Tanikawa, Shigeaki Harayama and Norihiko Misawa

Applied Microbiology and Biotechnology, August 2006; 71(6): 824-832

Survey sequencing of soybean elucidates the genome structure, composition and identifies novel repeats.

Andrew Nunberg, Joseph A. Bedell, Mohammad A. Budiman, Robert W. Citek, Sandra W. Clifton, Lucinda Fulton, Deana Pape, Zheng Cai, Trupti Joshi, Henry Nguyen, Dong Xu and Gary Stacey

Functional Plant Biology, August 2006, 33(8): 765–773

Paired end sequencing.

Inventors: Zhoutao Chen, Brian Christopher Godwin, Gianni Calogero Ferreri, David Roderick Riches

US Patent Application: 2009/0233291 A1, Publication Date: 17 September 2006;

***Deinococcus geothermalis*: The Pool of Extreme Radiation Resistance Genes Shrinks.**

Kira S. Makarova, Marina V. Omelchenko, Elena K. Gaidamakova, Vera Y. Matrosova, Alexander Vasilenko, Min Zhai, Alla Lapidus, Alex Copeland, Edwin Kim, Miriam Land, Konstantinos Mavromatis, Samuel Pitluck, Paul M. Richardson, Chris Detter, Thomas Brettin, Elizabeth Saunders, Barry Lai, Bruce Ravel, Kenneth M. Kemner, Yuri I. Wolf, Alexander Sorokin, Anna V. Gerasimova, Mikhail S. Gelfand, James K. Fredrickson, Eugene V. Koonin, and Michael J. Daly

PLoS One, 26 September 2007; 2(9): e955; 21 pp.

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0000955>

An Oxidoreductase Is Involved in Cercosporin Degradation by the Bacterium *Xanthomonas campestris* pv. *zinniae*

Tanya V. Taylor, Thomas K. Mitchell, and Margaret E. Daub

Applied and Environmental Microbiology, September 2006; 72(9): 6070–6078

Extensive Genomic Plasticity in *Pseudomonas aeruginosa* Revealed by Identification and Distribution Studies of Novel Genes among Clinical Isolates

Kai Shen, Sameera Sayeed, Patricia Antalis, John Gladitz, Azad Ahmed, Bethany Dice, Benjamin Janto, Richard Dopico, Randy Keefe, Jay Hayes, Sandra Johnson, Sujun Yu, Nathan Ehrlich, Jennifer Jocz, Laura Kropp, Ray Wong, Robert M. Wadowsky, Malcolm Slifkin, Robert A. Preston, Geza Erdos, J. Christopher Post, Garth D. Ehrlich, and Fen Z. Hu

Infection and Immunity, September 2006; 74(9): 5272–5283

[Advanced resources for plant genomics: a BAC library specific for the short arm of wheat chromosome 1B.](#)

Jaroslav Janda, Jan Šafář, Marie Kubaláková, Jan Bartoš, Pavlína Kovářová, Pavla Suchánková, Stephanie Pateyron, Jarmila Číhalíková, Pierre Sourdille, Hana Šimková, Patricia Faivre-Rampant, Eva Hřibová, Michel Bernard, Adam Lukaszewski, Jaroslav Doležel and Boulos Chalhoub
Plant Journal, September 2006; 47(6):977-986.

[Comparative Analysis of *argK-tox* Clusters and Their Flanking Regions in Phaseolotoxin-Producing *Pseudomonas syringae* Pathovars.](#)

Yuki Genka, Tomoya Baba, Masataka Tsuda, Shigehiko Kanaya, Hirotada Mori, Takanobu Yoshida, Masako Tsujimoto Noguchi, Kenichi Tsuchiya and Hiroyuki Sawada
Journal of Molecular Evolution, September 2006; 63(3): 401-414

[Complete plastid genome sequences of *Drimys*, *Liriodendron*, and *Piper*: implications for the phylogenetic relationships of magnoliids](#)

Zhengqiu Cai, Cynthia Penaflor, Jennifer V Kuehl, James Leebens-Mack, John E Carlson, Claude W dePamphilis, Jeffrey L Boore, and Robert K Jansen
BMC Evolutionary Biology, 4 October 2006; 6: 77, 20 pp.
<http://www.biomedcentral.com/1471-2148/6/77>

[Pyroglutamyl peptidase and its gene.](#)

Inventors: Masayuki Machida, Keietsu Abe, Katsuya Gomi, Kiyoshi Asai, Motoaki Sano, Taishin Kin, Hideki Nagasaki, Akira Hosoyama, Osamu Akita, Naotake Ogasawara, Satoru Kuhara, Chikara Tokunaga, Itaru Toda, Chiaki Saitoh, Akihiro Senoh
US Patent Application: 2006/0234320 A1, Publication Date: 19 October 2006;

[Microbial production of nuclease resistant DNA, RNA, and oligo mixtures.](#)

Elizabeth Gay Frayne
United States Patent: US 7125982 B1, Publication Date: 24 October 2006

[Organization of chromosome ends in the rice blast fungus, *Magnaporthe oryzae*](#)

Cathryn Rehmeyer, Weixi Li, Motoaki Kusaba, Yun-Sik Kim, Doug Brown, Chuck Staben, Ralph Dean, and Mark Farman
Nucleic Acids Research, October 2006; 34(17): 4685–4701

[Differential lineage-specific amplification of transposable elements is responsible for genome size variation in *Gossypium*](#)

Jennifer S. Hawkins, HyeRan Kim, John D. Nason, Rod A. Wing, and Jonathan F. Wendel
Genome Research, October 2006; 16(10): 1252–1261

[Engineered Vaginal *Lactobacillus* Strain for Mucosal Delivery of the Human Immunodeficiency Virus Inhibitor Cyanovirin-N](#)

Xiaowen Liu, Laurel A. Lagenaur, David A. Simpson, Kirsten P. Essenmacher, Courtney L. Frazier-Parker, Yang Liu, Daniel Tsai, Srinivas S. Rao, Dean H. Hamer, Thomas P. Parks, Peter P. Lee, and Qiang Xu
Antimicrobial Agents and Chemotherapy, October 2006; 50(10): 3250–3259.

[Construction and characterization of a highly redundant *Pseudomonas aeruginosa* genomic library prepared from 12 clinical isolates: application to studies of gene distribution among populations](#)

Geza Erdos, Sameera Sayeed, Fen Ze Hu, Patricia T. Antalis, Kai Shen, Jay D. Hayes, Azad I. Ahmed, Sandra L. Johnson, J. Christopher Post, and Garth D. Ehrlich
Int J Pediatr Otorhinolaryngology, November 2006; 70(11): 1891–1900

[Comparative and Functional Genomic Analyses of Iron Transport and Regulation in *Leptospira* spp.](#)

H. Louvel, S. Bommezzadri, N. Zidane, C. Boursaux-Eude, S. Creno, A. Magnier, Z. Rouy, C. Médigue, I. Saint Girons, C. Bouchier, and M. Picardeau
J Bacteriology, November 2006; 188(22): 7893–7904
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1636298/>

[Polony DNA sequencing.](#)

Gregory J. Porreca, Jay Shendure, and George M. Church
Curr Protocols in Molecular Biology, November 2006; Chapter 7: Unit 7.8.

[Paired end sequencing.](#)

Inventors: Jan Berka, Zhoutao Chen, Michael Egholm, Brian C. Godwin, Stephen Kyle Hutchison, John Harris Leamon, Gary James Sarkis, Jan Fredrik Simons
US Patent Application: 2006/0292611 A1, Publication Date: 28 December 2006;
<http://patents.justia.com/patent/7601499>

[The complete chloroplast genome sequences of *Solanum tuberosum* and comparative analysis with *Solanaceae* species identified the presence of a 241-bp deletion in cultivated potato chloroplast DNA sequence.](#)

Hwa-Jee Chung, Jong Duk Jung, Hyun-Woo Park, Joo-Hwan Kim, Hyun Wook Cha, Sung Ran Min, Won-Joong Jeong and Jang Ryol Liu
Plant Cell Reports, December 2006; 25(12): 1369-1379

[The evolution of *LOL*, the secondary metabolite gene cluster for insecticidal loline alkaloids in fungal endophytes of grasses.](#)

Brandi Lynn Kutil
PhD Theses, December 2006, Texas A&M University, pp.1-121.
<http://repository.tamu.edu/handle/1969.1/ETD-TAMU-1122?show=full>

[The chloroplast genome of mulberry: complete nucleotide sequence, gene organization and comparative analysis.](#)

V. Ravi, Jitendra P. Khurana, Akhilesh K. Tyagi and Paramjit Khurana
Tree Genetics & Genomes, December, 2006; 3(1): 49-59

[Comprehensive DNA methylation profiling in a human cancer genome identifies novel epigenetic targets.](#)

J.M. Ordway, J.A. Bedell, R.W. Citek, A. Nunberg, A. Garrido, R. Kendall, J.R. Stevens, D. Cao, R.W. Doerge, Y. Korshunova, H. Holemon, J.D. McPherson, N. Lakey, J. Leon, R.A. Martienssen and J.A. Jeddloh
Carcinogenesis, December 2006; 27(12): 2409-2423

[Comparative genomic analysis links karyotypic evolution with genomic evolution in the Indian Muntjac \(*Muntiacus muntjak vaginalis*\).](#)

Qi Zhou, Ling Huang, Jianguo Zhang, Xiangyi Zhao, Qingpeng Zhang, Fei Song, Jianxiang Chi, Fengtang Yang and Wen Wang

Rapport d'Activite, 2006; Unité des Rickettsies Centre National de Référence, Faculté de Médecine – 27, boulevard Jean Moulin –13005 Marseille, France

By Didier RAOULT, Director; The Lab which has a HydroShear unit:

Génomique Lab: Catherine Robert (Ingénieur de Recherche), Hugues Parinello (Assistant Ingénieur, CNRS), Bernadette Giumelli (Technicienne), Thi Tyen N' Guyen (Technicienne, AP-HM).

http://ifr48.timone.univ-mrs.fr/files/rapports-annuels-UMR2060/Rapport_annuel_2006.pdf

2005.

Surface expression of biologically active proteins in bacteria.

Inventors: Chia-Hwa Chang, Xiaowen Liu, John A. Lewicki, Qiang Xu

US Patent Application: 2005/0003510 A1, Publication Date: 6 January 2005

A saturation screen for cis-acting regulatory DNA in the *Hox* genes of *Ciona intestinalis*

David N. Keys, Byung-in Lee, Anna Di Gregorio, Naoe Harafuji, J. Chris Detter, Mei Wang, Orsalem Kahsai, Sylvia Ahn, Cindy Zhang, Sharon A. Doyle, Noriyuki Satoh, Yutaka Satou, Hidetoshi Saiga, Allen T. Christian, Dan S. Rokhsar, Trevor L. Hawkins, Mike Levine, and Paul M. Richardson

Proc Natl Academy Sciences U S A, 18 January 2005; 102(3): 679–683.

Complete genome sequencing of *Anaplasma marginale* reveals that the surface is skewed to two superfamilies of outer membrane proteins

Kelly A. Brayton, Lowell S. Kappmeyer, David R. Herndon, Michael J. Dark, David L. Tibbals, Guy H. Palmer, Travis C. McGuire, and Donald P. Knowles, Jr.

Proc Natl Academy Sciences U S A, 18 January 2005; 102(3): 844–849

Sorghum Genome Sequencing by Methylation Filtration

Joseph A Bedell, Muhammad A Budiman, Andrew Nunberg, Robert W Citek, Dan Robbins, Joshua Jones, Elizabeth Flick, Theresa Rohlfing, Jason Fries, Kourtney Bradford, Jennifer McMenamy, Michael Smith, Heather Holeman, Bruce A Roe, Graham Wiley, Ian F Korf, Pablo D Rabinowicz, Nathan Lakey, W. Richard McCombie, Jeffrey A Jeddloh, and Robert A Martienssen

PLoS Biology, January 2005; 3(1): e13

Truncated and RIP-degenerated copies of the LTR retrotransposon *Pholy* are clustered in a pericentromeric region of the *Leptosphaeria maculans* genome.

Agnès Attard, Lilian Gout, Simon Ross, Francis Parlange, Laurence Cattolico, Marie-Hélène Balesdent and Thierry Rouxel

Fungal Genetics and Biology, January 2005; 42(1): 30-41

Beyond pUC: Vectors for Cloning Unstable DNA.

Ronald Godiska, Melodee Patterson, Tom Schoenfeld, and David A. Mead

In: *DNA Sequencing: Optimizing the Process and Analysis*, Jan Kieleczawa Ed., Jones & Bartlett Publishers, Sudbury, MA, January 2005; pp. 55-76

Mitochondrial genomes of *Clymenella torquata* (Maldanidae) and *Riftia pachyptila* (Siboglinidae): evidence for conserved gene order in Annelida.

Robert M. Jennings and Kenneth M. Halanych
Mol Biology Evolution, February 2005; 22(2): 210-222.

Complete Genome Sequence of the Grouper Iridovirus and Comparison of Genomic Organization with Those of Other Iridoviruses.

Chih-Tung Tsai, Jing-Wen Ting, Ming-Hsien Wu, Ming-Feng Wu, Ing-Cherng Guo, Chi-Yao Chang
Journal of Virology, February 2005; 79(4): 2010-2023.

Comparative Genomics of Two Closely Related Unicellular Thermo-Acidophilic Red Algae, *Galdieria sulphuraria* and *Cyanidioschyzon merolae*, Reveals the Molecular Basis of the Metabolic Flexibility of *Galdieria sulphuraria* and Significant Differences in Carbohydrate Metabolism of Both Algae

Guillaume Barbier, Christine Oesterhelt, Matthew D. Larson, Robert G. Halgren, Curtis Wilkerson, R. Michael Garavito, Christoph Benning, and Andreas P.M. Weber
Plant Physiology, February 2005; 137(2): 460–474.

The Wolbachia Genome of *Brugia malayi*: Endosymbiont Evolution within a Human Pathogenic Nematode.

Jeremy Foster, Mehul Ganatra, Ibrahim Kamal, Jennifer Ware, Kira Makarova, Natalia Ivanova, Anamitra Bhattacharyya, Vinayak Kapatral, Sanjay Kumar, Janos Posfai, Tamas Vincze, Jessica Ingram, Laurie Moran, Alla Lapidus, Marina Omelchenko, Nikos Kyrpides, Elodie Ghedin, Shiliang Wang, Eugene Goltsman, Victor Joukov, Olga Ostrovskaya, Kiryl Tsukerman, Mikhail Mazur, Donald Comb, Eugene Koonin, Barton Slatko
PLoS Biology, 29 March 2005; 3(4): e121, 16 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1069646/>

Nucleotide sequence comparison of a chromosome rearrangement on human chromosome 12 and the corresponding ape chromosomes.

M.K. Shimada, C.-G. Kim, T. Kitano, R.E. Ferrell, Y. Kohara, N. Saitou
Cytogenet Genome Research, March 2005; 108(1-3):83-90

The prion protein gene: Identifying regulatory signals using marsupial sequence.

Marko Premzl, Margaret Delbridge, Jill E. Gready, Peter Wilson, Matthew Johnson, John Davis, Elizabeth Kuczek and Jennifer A. Marshall Graves
Gene, 11 April 2005; 349(1-2): 121-134
<http://www.sciencedirect.com/science/article/pii/S0378111904007267>

Sequencing and comparing whole mitochondrial genomes of animals.

Boore, Jeffrey L.; Macey, J. Robert; Medina, Monica
Lawrence Berkeley National Laboratory, 22 April 2005; LBNL Paper LBNL-55278,
<http://www.escholarship.org/uc/item/9hs3m6sz>

Relationships between hexapods and crustaceans based on four mitochondrial genes.

Antonio Carapelli, Francesco Nardi, Romano Dallai, Jeffrey L. Boore, Pietro Liò & Francesco Frati
In: *Crustacea and Arthropod Relationships*, 27 April 2005; CRC Press, Stefan Koenemann & Ronald A. Jenner (Eds), p.295-306

Resolving the tips of the tree of life: How much mitochondrial data do we need?

Bonett, Ronald M., Macey, J. Robert, Boore, Jeffrey L., & Chippindale, Paul T.
Lawrence Berkeley National Laboratory, 29 April 2005; LBNL Paper LBNL-55130.
<http://www.escholarship.org/uc/item/3zh8t72j>

Molecular Basis of Evolutionary Events That Shaped the *Hardness* Locus in Diploid and Polyploid Wheat Species (*Triticum* and *Aegilops*)

Nathalie Chantret, Jérôme Salse, François Sabot, Sadequr Rahman, Arnaud Bellec, Bastien Laubin, Ivan Dubois, Carole Dossat, Pierre Sourdille, Philippe Joudrier, Marie-Françoise Gautier, Laurence Cattolico, Michel Beckert, Sébastien Aubourg, Jean Weissenbach, Michel Caboche, Michel Bernard, Philippe Leroy, and Boulos Chalhouh
Plant Cell, April 2005; 17(4): 1033–1045.

Genomic peculiarity of coding sequences and metabolic potential of probiotic *Escherichia coli* strain Nissle 1917 inferred from raw genome data.

Jibin Sun, Florian Gunzer, Astrid M. Westendorf, Jan Buer, Maren Scharfe, Michael Jarek, Frank Gößling, Helmut Blöcker and An-Ping Zeng
Journal of Biotechnology, 4 May 2005; 117(2): 147-161

Selected nucleotide sequences isolated from pathogenic strains of *Haemophilus influenzae*

Inventors: Garth D. Ehrlich, Patricia Antalis, John Gladitz, Geza Erdos, Fen Z. Hu
US Patent Application: 2005/0095693 A1, Publication Date: 5 May 2005

The first complete chloroplast genome sequence of a lycophyte, *Huperzia lucidula* (Lycopodiaceae).

Paul G. Wolf, Kenneth G. Karol, Dina F. Mandoli, Jennifer Kuehl, K. Arumuganathan, Mark W. Ellis, Brent D. Mishler, Dean G. Kelch, Richard G. Olmstead and Jeffrey L. Boore
Gene, 9 May 2005; 350(2): 117-128

Unusual Gene Order and Organization of the Sea Urchin *Hox* Cluster

Richardson, Paul M.; Lucas, Susan; Cameron, R. Andrew; Rowen, Lee; Nesbitt, Ryan; Bloom, Scott; Rast, Jonathan P.; Berney, Kevin; Arenas-Mena, Cesar; Martinez, Pedro; Davidson, Eric H.; Peterson, Kevin J.; Hood, Leroy (<http://www.escholarship.org/uc/item/6rx5g7jv>)
Lawrence Berkeley National Laboratory, 10 May 2005; LBNL Paper LBNL-57898.

In situ induced antigen technology (isiat) for identification of polynucleotides expressed during infection or colonization.

Inventor: Jeffrey Daniel Hillman
US Patent Application: 2006/0099579 A1, Publication Date: 11 May 2006; pp.1-43

Genome Sequence of *Rickettsia bellii* Illuminates the Role of Amoebae in Gene Exchanges between Intracellular Pathogens.

Hiroyuki Ogata, Bernard La Scola, Stéphane Audic, Patricia Renesto, Guillaume Blanc, Catherine Robert, Pierre-Edouard Fournier, Jean-Michel Claverie, Didier Raoult
PLoS Genetics, 12 May 2006; 2(5): e76

Sequencing and comparing whole mitochondrial genomes of animals.

Jeffrey L. Boore, J. Robert Macey, and Monica Medina
Methods in Enzymology, 31 May 2005; 395 (Molecular Evolution: Producing the Biochemical Data, Part B): 311-348

Genetic markers in blue crabs (*Callinectes sapidus*): II. Complete mitochondrial genome sequence and characterization of genetic variation.

Allen R. Place, Xiaojun Feng, Colin R. Steven, H. Matthew Fourcade and Jeffrey L. Boore
Journal of Experimental Marine Biology and Ecology, 1 June 2005; 319(1-2): 15-27

Identification, Distribution, and Expression of Novel Genes in 10 Clinical Isolates of Nontypeable *Haemophilus influenzae*

Kai Shen, Patricia Antalis, John Gladitz, Sameera Sayeed, Azad Ahmed, Shujun Yu, Jay Hayes, Sandra Johnson, Bethany Dice, Richard Dopico, Randy Keefe, Benjamin Janto, William Chong, Joseph Goodwin, Robert M. Wadowsky, Geza Erdos, J. Christopher Post, Garth D. Ehrlich, Fen Z. Hu
Infection and Immunity, June 2005; 73(6): 3479–3491.

Operations capability improvement of a molecular biology laboratory in a high throughput genome sequencing center.

Matthew R. Vokoun
M.B.A. & MS Theses, June 2005; MIT, pp.1-132
<http://dspace.mit.edu/handle/1721.1/35697>

Algal Viruses with Distinct Intraspecies Host Specificities Include Identical Intein Elements

Keizo Nagasaki, Yoko Shirai, Yuji Tomaru, Kensho Nishida, and Shmuel Pietrokovski
Applied and Environmental Microbiology, July 2005; 71(7): 3599–3607.

The complete mitochondrial genome of a gecko and the phylogenetic position of the Middle Eastern *Teratoscincus keyserlingii*.

J. Robert Macey, Jonathan J. Fong, Jennifer V. Kuehl, Soheila Shafiei, Natalia B. Ananjeva, Theodore J. Papenfuss and Jeffrey L. Boore
Molecular Phylogenetics and Evolution, July 2005; 36(1): 188-193

Methods for diagnosing and treating diseases and conditions associated with protein kinase C- λ .

Inventors: Randall Peterson, Mark C. Fishman
US Patent Application: 2005/0172352 A1, Publication Date: 5 August 2005, pp.1-43.
<https://usgene.sequencebase.com/patents/US20050172352>

Analysis of the Chloroplast Genome in *Phalaenopsis aphrodite* subsp. *Formosana*.

Hsien-Chia Lin
MS Theses, 25 August 2005; National Cheng Kung University, pp.1-157 (Chinese)
http://ethesys.lib.ncku.edu.tw/ETD-db/ETD-search/view_etd?URN=etd-0826105-154825

Using Partial Genomic Fosmid Libraries for Sequencing Complete Organellar Genomes.

Joel R. McNeal, James H. Leebens-Mack, K. Arumuganathan, Jennifer V. Kuehl, Jeffrey L. Boore & Claude W. dePamphilis
Lawrence Berkeley National Laboratory, 26 August 2005; LBNL Paper LBNL-59014.
<http://www.escholarship.org/uc/item/6n78c536>

Sequence Finishing and Gene Mapping for *Candida albicans* Chromosome 7 and Syntenic Analysis Against the *Saccharomyces cerevisiae* Genome

Hiroji Chibana, Nao Oka, Hironobu Nakayama, Toshihiro Aoyama, B. B. Magee, P. T. Magee, and Yuzuru Mikami
Genetics, August 2005; 170(4): 1525–1537

Differential Rates of Local and Global Homogenization in Centromere Satellites From *Arabidopsis* Relatives

Sarah E. Hall, Song Luo, Anne E. Hall, and Daphne Preuss
Genetics, August 2005; 170(4): 1913–1927.

The Genome Sequence of *Rickettsia felis* Identifies the First Putative Conjugative Plasmid in an Obligate Intracellular Parasite

Hiroyuki Ogata, Patricia Renesto, Stéphane Audic, Catherine Robert, Guillaume Blanc, Pierre-Edouard Fournier, Hugues Parinello, Jean-Michel Claverie, and Didier Raoult
PLoS Biology, August 2005; 3(8): e248

The First Complete Mitochondrial Genome Sequences for Stomatopod Crustaceans: Implications for Phylogeny.

Kirsten Swinstrom, Roy Caldwell, H. Matthew Fourcade, Jeffrey L. Boore
Lawrence Berkeley National Laboratory, 7 September 2005; LBNL-55416. (we have pdf file)

Methods for screening for genes and small molecules that activate mammalian receptor proteins.

Inventors: Deane Louis Falcone, John M. Littleton
US Patent Application: 2005/0204428 A1, Publication Date: 15 September 2005;

Robotics and Automation in Molecular Genetics.

Trevor Hawkins, Chris Elkin, Martin Pollard
In: *Encyclopedia of Life Sciences, Wiley Online Library*, 23 September 2005;
<http://onlinelibrary.wiley.com/doi/10.1038/npg.els.0005351/full>

Whole-Genome Shotgun Optical Mapping of *Rhodospirillum rubrum*

Susan Reslewic, Shiguo Zhou, Mike Place, Yaoping Zhang, Adam Briska, Steve Goldstein, Chris Churas, Rod Runnheim, Dan Forrest, Alex Lim, Alla Lapidus, Cliff S. Han, Gary P. Roberts, and David C. Schwartz
Applied and Environmental Microbiology, September 2005; 71(9): 5511–5522

Mitochondrial genomics and Northwestern Atlantic population genetics of marine Annelids.

Robert M. Jennings
PhD Theses, MIT and the Woodshole Oceanographic Institution, September 2005, pp.1-151

An Attenuated LC16m8 Smallpox Vaccine: Analysis of Full-Genome Sequence and Induction of Immune Protection

Shigeru Morikawa, Tokuki Sakiyama, Hideki Hasegawa, Masayuki Saijo, Akihiko Maeda, Ichiro Kurane, Go Maeno, Junko Kimura, Chie Hirama, Teruhiko Yoshida, Yasuko Asahi-Ozaki, Tetsutaro Sata, Takeshi Kurata, and Asato Kojima
J Virology, September 2005; 79(18): 11873–11891.

Complete Chloroplast Genome Sequence of *Glycine max* and Comparative Analyses with other Legume Genomes.

Christopher Saski, Seung-Bum Lee, Henry Daniell, Todd C. Wood, Jeffrey Tomkins, Hyi-Gyung Kim and Robert K. Jansen
Plant Molecular Biology, September 2005; 59(2): 309-322

Genes of an otitis media isolate of haemophilus influenzae.

Inventors: Lauren O. Bakaletz, Robert S. Munson JR., David W. Dyer
US Patent Application: 2005/0221439 A1, Publication Date: 6 October 2005;

Sand DNA - a genetic library of life at the water's edge.

Robert K. Naviaux, Benjamin Good, John D. McPherson, David L. Steffen, David Markusic, Barbara Ransom, Jacques Corbeil
Marine Ecology Progress Series, 11 October 2005; 301(1): 9–22

Characterization of a *Xanthomonas campestris* pv. *zinniae* Oxidoreductase Involved in the Biodegradation of Cercosporin.

Tanya Valera Taylor
PhD Theses, 28 October 2005; North Carolina State University, pp. 1-124
<http://www.lib.ncsu.edu/theses/available/etd-10302005-151207/unrestricted/etd.pdf>

Identifying the Basal Angiosperm Node in Chloroplast Genome Phylogenies: Sampling One's Way Out of the Felsenstein Zone.

Jim Leebens-Mack, Linda A. Raubeson, Liying Cui, Jennifer V. Kuehl, Matthew H. Fourcade, Timothy W. Chumley, Jeffrey L. Boore, Robert K. Jansen and Claude W. dePamphilis
Mol Biol Evolution, October 2005; 22(10): 1948-1963

Fertility restorer locus *Rf1* of sorghum (*Sorghum bicolor* L.) encodes a pentatricopeptide repeat protein not present in the colinear region of rice chromosome 12.

R. R. Klein, P. E. Klein, J. E. Mullet, P. Minx, W. L. Rooney and K. F. Schertz
TAG Theoretical and Applied Genetics, October 2005; 111(6): 994-1012

Method for discovering novel DNA viruses in blood using viral particle selection and shotgun sequencing.

Mya Breitbart and Forest Rohwer
Biotechniques, November 2005; 39(5): 729-736.

Genetic profile of hepatocellular carcinoma revealed by array-based comparative genomic hybridization: Identification of genetic indicators to predict patient outcome.

Hiroto Katohab, Tatsuhiro Shibataa, Akiko Kokubua, Hidenori Ojima, Panayiotis Loukopouloa, Yae Kanaia, Tomoo Kosugec, Masashi Fukayamab, Tadashi Kondod, Michiie Sakamotoe, Fumie Hosodaf, Misao Ohkifg, Issei Imotoh, Johji Inazawah, Setsuo Hirohashia
J Hepatology, November 2005; 43(5): 863-874

Viral libraries from uncultivated viruses and polypeptides produced therefrom

Inventors: Thomas William Schoenfeld, David Alan Mead (“Lucigen”)
US Patent Application: 2005/0282155 A1, Publication. Date: 22 December 2005
<http://www.google.com/patents/US20050282155>

Advanced Vectors for Cloning BACs, Fosmids, & Large Insert Plasmids.

(Editorial)
eLucidations, 2005, 4: 1-4

2004.

Shotgun Library Construction for DNA Sequencing.

Bruce A. Roe

Methods Molecular Biology, 1 January 2004; 255(Bacterial Artificial Chromosomes): 171-187.

Pattern of diversity in the genomic region near the maize domestication gene *tb1*.

Richard M. Clark, Eric Linton, Joachim Messing, and John F. Doebley

Proc Natl Acad Sci U S A, 20 January 2004; 101(3): 700-707.

Characterization of microsatellites revealed by genomic sequencing of *Populus trichocarpa*.

Gerald A. Tuskan, Lee E. Gunter, Zamin K. Yang, TongMing Yin, Mitchell M. Sewell, and Stephen P. DiFazio

Can. J. Forest Research, January 2004; 34(1): 85-93

Contig assembly and microsynteny analysis using a bacterial artificial chromosome library for *Epichloë festucae*, a mutualistic fungal endophyte of grasses.

Brandi L Kutil, Gang Liu, Julia Vrebalov and Heather H Wilkinson

Fungal Genetics and Biology, January 2004; Pages 41(1): 23-32

Convergent evolution in primates and an insectivore.

Dario Boffelli, Jan-Fang Cheng and Edward M Rubin

Genomics, January 2004; 83(1): 19-23

A processed pseudogene contributes to apparent mule deer prion gene heterogeneity.

Kelly A. Brayton, Katherine I. O'Rourke, Amy K. Lyda, Michael W. Miller, Donald P. Knowles, Jr.

Gene, 4 February 2004; 326: 167-173

The Genome Sequence of Silkworm, *Bombyx mori*.

Kazuei Mita, Masahiro Kasahara, Shin Sasaki, Yukinobu Nagayasu, Tomoyuki Yamada, Hiroyuki Kanamori, Nobukazu Namiki, Masanari Kitagawa, Hidetoshi Yamashita, Yuji Yasukochi, Keiko Kadono-Okuda, Kimiko Yamamoto, Masahiro Ajimura, Gopalapillai Ravikumar, Michihiko Shimomura, Yoshiaki Nagamura, Tadasu Shin-i, Hiroaki Abe, Toru Shimada, Shinichi Morishita and Takuji Sasaki

DNA Research, 29 February 2004; 11(1): 27-35.

Diversity and population structure of a near-shore marine-sediment viral community.

Mya Breitbart, Ben Felts, Scott Kelley, Joseph M Mahaffy, James Nulton, Peter Salamon, and Forest Rohwer

Proc of the Royal Society B (Biol Sciences), 22 March 2004; 271(1539): 565-574.

Gene Conversion and the Evolution of Protocadherin Gene Cluster Diversity.

James P. Noonan, Jane Grimwood, Jeremy Schmutz, Mark Dickson, and Richard M. Myers

Genome Research, March 2004; 14(3): 354-366

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC353213/>

Identification and mapping of self-assembling protein domains encoded by the *Escherichia coli* K-12 genome by use of λ repressor fusions.

Leonardo Mariño-Ramírez, Jonathan L. Minor, Nicola Reading, and James C. Hu
J. Bacteriology, March 2004; 186(5): 1311-1319

Chromosome Walking in the *Petunia Inflata* Self-Incompatibility (S-) Locus and Gene Identification in an 881-kb Contig Containing *S₂-RNase*.

Yan Wang, Tatsuya Tsukamoto, Ki-wan Yi, Xi Wang, Shihshieh Huang, Andrew G. McCubbin and Teh-hui Kao
Plant Molecular Biology, March 2004; 54(5): 727-742.

The complete sequence of human chromosome 5.

Jeremy Schmutz, Joel Martin, Astrid Terry, Olivier Couronne, Jane Grimwood, Steve Lowry, Laurie A. Gordon, Duncan Scott, Gary Xie, Wayne Huang, Uffe Hellsten, Mary Tran-Gyamfi, Xinwei She, Shyam Prabhakar, Andrea Aerts, Michael Altherr, Eva Bajorek, Stacey Black, Elbert Branscomb, Chenier Caoile, Jean F. Challacombe, Yee Man Chan, Mirian Denys, Chris Detter, Julio Escobar, Dave Flowers, Dea Fotopulos, Tijana Glavina, Maria Gomez, Eidelyn Gonzales, David Goodstein, Igor Grigoriev, Matthew Groza, Nancy Hammon, Trevor Hawkins, Lauren Haydu, Sanjay Israni, Jamie Jett, Kristen Kadner, Heather Kimball, Arthur Kobayashi, Frederick Lopez, Yunian Lou, Diego Martinez, Catherine Medina, Jenna Morgan, Richard Nandkeshwar, James P. Noonan, Sam Pitluck, Martin Pollard, Paul Predki, James Priest, Lucia Ramirez, Sam Rash, James Retterer, Alex Rodriguez, Stephanie Rogers, Asaf Salamov, Angelica Salazar, Nina Thayer, Hope Tice, Ming Tsai, Anna Ustaszewska, Nu Vo, Jeremy Wheeler, Kevin Wu, Joan Yang, Mark Dickson, Jan-Fang Cheng, Evan E. Eichler, Anne Olsen, Len A. Pennacchio, Daniel S. Rokhsar, Paul Richardson, Susan M. Lucas, Richard M. Myers, Edward M. Rubin
Lawrence Berkeley National Laboratory. LBNL Paper LBNL-55264, 15 April 2004;
(<http://www.escholarship.org/uc/item/7nz7540v>)

Reconstruction of the Central Carbohydrate Metabolism of *Thermoproteus tenax* by Use of Genomic and Biochemical Data

Bettina Siebers, Britta Tjaden, Klaus Michalke, Christine Dörr, Hatim Ahmed, Melanie Zaparty, Paul Gordon, Christoph W. Sensen, Arne Zibat, Hans-Peter Klenk, Stephan C. Schuster, Reinhard Hensel
J. Bacteriology, April 2004; 186(7): 2179-2194

Studies of ergot alkaloid biosynthesis genes in Clavicipitaceous fungi.

Caroline Machado
PhD Theses, University of Kentucky, 6 May 2004; pp. 1-90
<http://archive.uky.edu/bitstream/10225/505/machado.pdf>

Fragmentos genômicos revelam segredos da banan.

Felipe Rodrigues da Silva, Natália Florêncio Martins, Candice Romero Santos, Ana Ciampi, Roberto C. Togawa, Alberto Vilarinhos, Pietro Pifanelli and Manoel Teixeira Souza Jr.
In: *XXXIII Reuniao Anual da Sociedade Brasileira de Bioquímica e Biologia Molecular-SBBq*, Caxambu, MG (BRA), 15-18 May 2004; Abstract

***Burkholderia cenocepacia* Phage BcepMu and a Family of Mu-like Phages Encoding Potential Pathogenesis Factors.**

Elizabeth J. Summer, Carlos F. Gonzalez, Thomas Carlisle, Leslie M. Mebane, Andrea M. Cass, Christos G. Savva, JohnJ. LiPuma and Ry Young
Journal of Molecular Biology, 25 June 2004; Pages 340(1): 49-65

Whole-genome shotgun optical mapping of *Rhodospirillum rubrum*.

Susan Reslewic, Shiguo Zhou, Mike Place Yaoping Zhang, Adam Briska, Steve Goldstein, Chris Churas, Rod Runnheim, Dan Forrest, Alex Lim, Alla Lapidus, Cliff S. Han, Gary P. Roberts, David C. Schwartz

Lawrence Berkeley National Laboratory. 1 July 2004; LBNL Paper LBNL-56606.

<http://www.escholarship.org/uc/item/73g192dj>

Nucleotide Sequence Identities of horA Homologues and Adjacent DNA Regions Identified in Three Species of Beer-Spoilage Lactic Acid Bacteria.

K. Suzuki, M. Sami, K. Ozaki and H. Yamashita

Journal of the Institute of Brewing, July 2004; 110(4): 276–283

The master sex-determination locus in threespine sticklebacks is on a nascent Y chromosome.

Catherine L. Peichel, Joseph A. Ross, Clinton K. Matson, Mark Dickson, Jane Grimwood, Jeremy Schmutz, Richard M. Myers, Seiichi Mori, Dolph Schluter and David M. Kingsley

Current Biology, 24 August 2004; 14(16): 1416–1424

The fusarium wilt resistance locus Fom-2 of melon contains a single resistance gene with complex features.

T. Joobeur, J.J. King, S. J. Nolin, C.E. Thomas, R.A. Dean

Plant Journal, August 2004; 39(3): 283-297

Incongruent Patterns of Local and Global Genome Size Evolution in Cotton

Corrinne E. Grover, HyeRan Kim, Rod A. Wing, Andrew H. Paterson, and Jonathan F. Wendel
Genome Research, August 2004; 14(8): 1474–1482.

Fosmid-Based Physical Mapping of the *Histoplasma capsulatum* Genome

Vincent Magrini, Wesley C. Warren, John Wallis, William E. Goldman, Jian Xu, Elaine R. Mardis, and John D. McPherson

Genome Research, August 2004; 14(8): 1603–1609.

Genomic organization of chromosomal centromeres in cultivated rice, *Oryza sativa* L., and its wild progenitor, *O. rufipogon* Griff.

Taesik Uhm (<http://txspace.tamu.edu/handle/1969.1/1243>)

PhD Dissertation, Texas A&M University, August 2004; p. I-X, 1-94

Morphological homoplasy, life history evolution, and historical biogeography of plethodontid salamanders inferred from complete mitochondrial genomes

Rachel Lockridge Mueller, J. Robert Macey, Martin Jaekel, David B. Wake, and Jeffrey L. Boore
Proc Natl Academy Sciences U S A, 21 September 2004; 101(38): 13820–13825.

Method for preparing single-stranded DNA libraries.

Inventors: Gina L. Costa, John H. Leamon, Jonathan M. Rothberg, Michael P. Weiner

US Patent Application: 20040185484 A1, Publication Date: 23 September 2004;

In vitro DNA immortalization and whole genome amplification using libraries generated from randomly fragmented DNA.

Inventors: Jonathon H. Pinter, Takao Kurihara, Irina Sleptsova, Eric Bruening, William Ziehler, Vladimir L. Makarov (Assignee: Rubicon Genomics Co.)

US Patent Application: 2004/0209299 A1, Publication Date: 21 October 2004;
<http://www.google.com/patents/US20040209299>

Solid phase technique for selectively isolating nucleic acids.

Inventors: Kevin Mckernan, Paul Mcewan, William Morris

US Patent Application: 2004/0214175 A9, Publication Date: 28 October 2004

<https://www.google.com/patents/US20040214175?dq=2004/0214175+A9+patent&hl=en&sa=X&ved=0ahUKEwjmysGX9OjLAhVL-mMKHWxRDyMQ6AEIHTAA>

Relationships of the *Escherichia coli* O157, O111, and O55 O-Antigen Gene Clusters with Those of *Salmonella enterica* and *Citrobacter freundii*, Which Express Identical O Antigens.

Gabrielle Samuel, John-Paul Hogbin, Lei Wang, and Peter R. Reeves

J. Bacteriology, October 2004; 186(19): 6536–6543.

Identification of *Cryptococcus neoformans* Temperature-Regulated Genes with a Genomic-DNA Microarray.

Peter R. Kraus, Marie-Josée Boily, Steven S. Giles, Jason E. Stajich, Andria Allen, Gary M. Cox, Fred S. Dietrich, John R. Perfect, and Joseph Heitman

Eukaryotic Cell, October 2004; 3(5): 1249–1260.

Genome signature tags.

Inventors: John J. Dunn, Lelie Daniel Van Der, Maureen K. Krause, Sean R. Mccorkle

US Patent Application: 2004/0219580 A1, Publication Date: 4 November 2004;

Convergent Evolution of Chromosomal Sex-Determining Regions in the Animal and Fungal Kingdoms.

James A. Fraser, Stephanie Diezmann, Ryan L. Subaran, Andria Allen, Klaus B. Lengeler, Fred S. Dietrich, Joseph Heitman

PLoS Biology, 9 November 2004; 2(12): e384.

The Genome Sequence of *Mycoplasma hyopneumoniae* Strain 232, the Agent of Swine Mycoplasmosis

F. Chris Minion, Elliot J. Lefkowitz, Melissa L. Madsen, Barbara J. Cleary, Steven M. Swartzell, and Gregory G. Mahairas

J. Bacteriology, November 2004; 186(21): 7123–7133.

The complete genomic sequence of *Mycoplasma penetrans*, an intracellular bacterial pathogen in humans

Yuko Sasaki, Jun Ishikawa, Atsushi Yamashita, Kenshiro Oshima, Tsuyoshi Kenri, Keiko Furuya, Chie Yoshino, Atsuko Horino, Tadayoshi Shiba, Tsuguo Sasaki, and Masahira Hattori

Nucleic Acids Research, 1 December 2004; 30(23): 5293–5300

ST18 is a breast cancer tumor suppressor gene at human chromosome 8q11.2

Burkhard Jandrig, Susanne Seitz, Bernd Hinzmann, Wolfgang Arnold, Burkhard Micheel, Konrad Koelble, Reiner Siebert, Arnfried Schwartz, Karin Ruecker, Peter M. Schlag, Siegfried Scherneck and André Rosenthal

Oncogene, 9 December 2004; 23(57): 9295-302.

Identification of a Novel Dioxygenase Involved in Metabolism of o-Xylene, Toluene, and Ethylbenzene by *Rhodococcus* sp. Strain DK17

Dockyu Kim, Jong-Chan Chae, Gerben J. Zylstra, Young-Soo Kim, Seong-Ki Kim, Myung Hee Nam, Young Min Kim, and Eungbin Kim
Appl Environmental Microbiology, December 2004; 70(12): 7086–7092.

Convergent Evolution of Chromosomal Sex-Determining Regions in the Animal and Fungal Kingdoms

James A Fraser, Stephanie Diezmann, Ryan L Subaran, Andria Allen, Klaus B Lengeler, Fred S Dietrich, and Joseph Heitman
PLoS Biology, December 2004; 2(12): e384.

Le séquençage de génomes de plantes.

Choisne L., Demange N., Orjeda G., Michelet L., Pelletier E., Salanoubat M., Weissenbach J., Quetier F.

In: *La génomique en biologie végétale*, Jean-Francois Morot-Gaudry & Jean-Francois Briat Eds, Paris, Institut national de la recherche agronomique, 2004, pp. 33-58

2003.

Pericentromeric Duplications in the Laboratory Mouse.

James W. Thomas, Mary G. Schueler, Tyrone J. Summers, Robert W. Blakesley, Jennifer C. McDowell, Pamela J. Thomas, Jacquelyn R. Idol, Valerie V.B. Maduro, Shih-Queen Lee-Lin, Jeffrey W. Touchman, Gerard G. Bouffard, Stephen M. Beckstrom-Sternberg, NISC Comparative Sequencing Program, and Eric D. Green
Genome Research, 1 January 2003; 13(1): 55-63

Genomic Colinearity as a Tool for Plant Gene Isolation.

Wusirika Ramakrishna, Bennetzen, Jeffrey L.
Methods in Molecular Biology, 1 January 2003; 236(Plant Functional Genomics): 109-121

Genomic DNA library.

Inventors: Junichi Mineno, Kiyozo Asada, Ikunoshin Kato, Chikako Tanabe, Hiroki Sasaki, Masaaki Terada
US Patent Application: 2003/0013671 A1, Publication. Date: 16 January 2003

The wheat D-genome HMW-glutenin locus: BAC sequencing, gene distribution, and retrotransposon clusters.

O. Anderson, C. Rausch, O. Moullet and E. Lagudah
Functional & Integrative Genomics, 1 March 2003; 3(1-2): 56-68

Solid phase technique for selectively isolating nucleic acids.

Inventors: Kevin Mckernan, Paul Mcewan, William Morris (Assignee: Broad Inst.)
United States Patent: US 6534262 B1, Publication Date: 18 March 2003

Elucidation of correspondence between swine chromosome 4 and human chromosome 1 by assigning 27 genes to the ImpRH map, and development of microsatellites in the proximity of 14 genes.

H. Hiraiwa, T. Sawazaki, K. Suzuki, N. Fujishima-Kanaya, D. Toki, Y. Ito, H. Uenishi, T. Hayashi, T. Awata, and Hiroshi Yasue
Cytogenet Genome Research, March 2003; 101(1):84-89

Comparative analysis of the self-incompatibility (S-) locus region of *Prunus mume*: identification of a pollen-expressed F-box gene with allelic diversity.

T Entani, M Iwano, H Shiba, FS Che, A Isogai, and S Takayama
Genes Cells, March 2003; 8(3): 203-213.

High-Cot sequence analysis of the maize genome.

Yinan Yuan, Phillip J. SanMiguel, Jeffrey L. Bennetzen.
Plant Journal, April 2003; 34(2): 249-255.

Molecular evolution and recombination in gender-associated mitochondrial DNAs of the Manila clam *Tapes philippinarum*.

Marco Passamonti, Jeffrey L Boore, and Valerio Scali
Genetics, June 2003; 164(2): 603-611

Partial genome sequencing of *Rhodococcus equi* ATCC 33701.

M. T. Rahman, L. L. Herron, V. Kapur, W. G. Meijer, B. A. Byrne, J. Ren, V. M. Nicholson and J. F. Prescott
Veterinary Microbiology, 1 July 2003; 94(2): 143-158

DNA amplification and sequencing using dna molecules generated by random fragmentation.

Inventors: Vladimir L. Makarov, Irina Slepsova, Emmanuel Kamberov, Eric Bruening
US Patent Application: 2003/0143599 A1, Publication Date: 31 July 2003
<http://patents.com/us-20030143599.html>

Development and characterization of a pooled *Haemophilus influenzae* genomic library for the evaluation of gene expression changes associated with mucosal biofilm formation in otitis media.

Geza Erdosab, Sameera Sayeeda, Patricia Antalisa, Fen Ze Huab, Jay Hayesa, Joseph Goodwina, Richard Dopicoa, J.Christopher Postab, Garth D. Ehrlichab
International Journal of Pediatric Otorhinolaryngology, July 2003; 67(7): 749-755

A *Bombyx mori* gene, *BmChi-h*, encodes a protein homologous to bacterial and baculovirus chitinases.

Takaaki Daimon, Koutaro Hamada, Kazuei Mita, Kazuhiro Okano, Masataka G. Suzuki, Masahiko Kobayashi and Toru Shimada
Insect Biochemistry and Molecular Biology, August 2003; 33(8): 749-759.

Organization of the KpnI family of chromosomal distal-end satellite DNAs in *Silene latifolia*.

Yusuke Kazama, Ryuji Sugiyama, Sachihiko Matsunaga, Fukashi Shibata, Wakana Uchida, Masahiro Hizume and Shigeyuki Kawano
Journal of Plant Research, August 2003; 116(4): 317-326.

Characterization of the genomic organization of the region bordering the centromere of chromosome V of *Podospira anserina* by direct sequencing.

Philippe Silar, Christian Barreau, Robert Debuchy, Sébastien Kicka, Béatrice Turcq, Annie Sainsard-Chanet, Carole H. Sellem, Alain Billault, Laurence Cattolico, Simone Duprat and Jean Weissenbach

Fungal Genetics and Biology, August 2003; 39(3): 250-263.

[The complete genome sequence of the avian pathogen *Mycoplasma gallisepticum* strain R\(low\).](#)

Leka Papazisi, Timothy S. Gorton, Gerald Kutish, Philip F. Markham, Glenn F. Browning, Di Kim Nguyen, Steven Swartzell, Anup Madan, Greg Mahairas and Steven J. Geary
Microbiology, September 2003, 149(2): 2307-2316

[A transposable element-mediated gene divergence that directly produces a novel type bovine Bcnt protein including the endonuclease domain of RTE-1.](#)

Shintaro Iwashita, Naoki Osada, Tomohito Itoh, Mariko Sezaki, Kenshiro Oshima, Etsuko Hashimoto, Yuko Kitagawa-Arita, Ichiro Takahashi, Tohru Masui, Katsuyuki Hashimoto and Wojciech Makalowski
Mol. Biology Evolution, September 2003; 20(9): 1556-1563

[The genome sequence of *Yersinia pestis* bacteriophage phiA1122 reveals an intimate history with the coliphage T3 and T7 genomes.](#)

Emilio Garcia, Jeffrey M. Elliott, Erlan Ramanculov, Patrick S. G. Chain, May C. Chu, and Ian J. Molineux
J. Bacteriology, September 2003; 185(17): 5248-5262

[Genome DNA of bacterial symbiont of aphids.](#)

Inventors: Shuji Shigenobu, Hidemi Watanabe, Hajime Ishikawa, Masahira Hattori, Yoshiyuki Sakaki
United States Patent: US 6632935 B2, Publication Date: 14 October 2003;

[Characterization of the rhesus cytomegalovirus US28 locus.](#)

Penfold M.E.T., Schmidt T.L., Dairaghi D.J., Barry P.A., Schall T.J.
J. Virology, October 2003; 77(19): 10404-10413.

[Metagenomic analyses of an uncultured viral community from human feces.](#)

Mya Breitbart, Ian Hewson, Ben Felts, Joseph M. Mahaffy, James Nulton, Peter Salamon, and Forest Rohwer
J. Bacteriology, October 2003; 185(20): 6220-6223.

[Evaluation of a whole-genome amplification method based on adaptor-ligation PCR of randomly sheared genomic DNA.](#)

Chikako Tanabe, Kazuhiko Aoyagi, Tokuki Sakiyama, Takashi Kohno, Noriko Yanagitani, Shingo Akimoto, Michiie Sakamoto, Hiromi Sakamoto, Jun Yokota, Misao Ohki, Masaaki Terada, Teruhiko Yoshida, Hiroki Sasaki
Genes Chromosomes Cancer, October 2003; 38(2): 168-176.

[Genome sequence and organization of a nucleopolyhedrovirus isolated from the smaller tea tortrix, *Adoxophyes honmai*.](#)

Madoka Nakai, Chie Goto, WonKyung Kang, Masamitsu Shikata, Teresa Luque, Yasuhisa Kunimi
Virology, 10 November 2003; 316(1): 171-183.

[Comparative sequence analysis between orthologous regions of the *Arabidopsis* and *Populus* genomes reveals substantial synteny and microcollinearity.](#)

Brigid Stirling, Zamin Koo Yang, Lee E. Gunter, Gerald A. Tuskan, and H. D. Bradshaw Jr.
Can. J. Forest Research, November 2003; 33(11): 2245-2251.

[The *Xenopus tropicalis* Genome Project.](#)

Richardson, Paul M; Chapman, Jarrod
Current Genomics, November 2003; 4(8): 645-652.

[Coding potential of laboratory and clinical strains of human cytomegalovirus.](#)

Eain Murphy, Dong Yu, Jane Grimwood, Jeremy Schmutz, Mark Dickson, Michael A. Jarvis, Gabriele Hahn, Jay A. Nelson, Richard M. Myers and Thomas E. Shenk
Proc Natl Academy Sciences U S A, 9 December 2003; 100(25): 14976-14981.

[heart of glass Regulates the Concentric Growth of the Heart in Zebrafish.](#)

John D. Mably, Manzoor-Ali P.K. Mohideen, C. Geoffrey Burns, Jau-Nian Chen, Mark C. Fishman
Current Biology, 16 December 2003; 13(24): 2138–2147.

[Solid phase technique for selectively isolating nucleic acids.](#)

Inventors: Kevin Mckernan, Paul Mcewan, William Morris
US Patent Application: 2003/0235839 A1, Publication Date: 25 December 2003;
https://www.google.com/patents/US20030235839?dq=Solid+phase+technique+for+selectively+isolating+nucleic+acids&hl=en&sa=X&ved=0ahUKEwjxp53C9OjLAhXIdR4KHVRWBMUQ6AEILTA_C

[Clone Direct Rapid Ligation Kit.](#)

Lucigen (MA003 v. 3.8), 2003
http://lifetechnologiesindia.com/CloneDirect_Rapid_Ligation_Manual_Life_Technologies_India.pdf

[The Means To An End: Optimal Methods for DNA Fragmentation and End Repair.](#)

Thomas Schoenfeld, Ronald Godiska, Melodee Patterson, and David Mead (Lucigen Co.)
eLucidations, 2003, 2: 2-4.
http://lucigen.com/store/docs/literature/eLucidations/Means_End.pdf

2002.

[Recombination rates between adjacent genic and retrotransposon regions in maize vary by 2 orders of magnitude.](#)

Huihua Fu, Zhenwei Zheng, and Hugo K. Dooner
Proc Natl Academy Sciences U S A, 22 January 2002; 99(2): 1082-1087.

[The dominance of alleles controlling self-incompatibility in *Brassica* pollen is regulated at the RNA level.](#)

Hiroshi Shiba, Megumi Iwano, Tetsuyuki Entani, Kyoko Ishimoto, Hiroko Shimosato, Fang-Sik Che, Yoko Satta, Akiko Ito, Yoshinobu Takada, Masao Watanabe, Akira Isogai and Seiji Takayama
Plant Cell, February 2002; 14(2): 491-504.

[Transposable elements, genes and recombination in a 215-kb contig from wheat chromosome 5A^m](#)

Phillip J. SanMiguel, Wusirika Ramakrishna, Jeffrey L. Bennetzen, Carlos S. Busso and Jorge Dubcovsky
Functional & Integrative Genomics, May 2002; 2(1-2): 70-80.

[Genome Sequence Survey Identifies Unique Sequences and Key Virulence Genes with Unusual Rates of Amino Acid Substitution in Bovine *Staphylococcus aureus*.](#)

Lisa L. Herron, Rajit Chakravarty, Christopher Dwan, J. Ross Fitzgerald, James M. Musser, Ernest Retzel, and Vivek Kapur.
Infect. Immunity, July 2002; 70(7): 3978-3981.

[Genome DNA of bacterial symbiont of Aphids.](#)

Inventors: Shuji Shigenobu, Hidemi Watanabe, Hajime Ishikawa, Masahira Hattori, Yoshiyuki Sakaki
US Patent Application: 2002/0127687 A1, Publication Date: 12 September 2002.

[Analysis of the complete genome sequence of the Hz-1 virus suggests that it is related to members of the *Baculoviridae*.](#)

Chia-Hsiung Cheng, Su-Mei Liu, Teh-Yuan Chow, Yu-Yun Hsiao, Dan-Ping Wang, Jiann-Jang Huang, and Hong-Hwa Chen
J. Virology, September 2002; 76(18): 9024-9034.

[Comparative genomic sequence analysis of the human chromosome 21 Down syndrome critical region.](#)

Atsushi Toyoda, Hideki Noguchi, Todd D. Taylor, Takehiko Ito, Mathew T. Pletcher, Yoshiyuki Sakaki, Roger H. Reeves, and Masahira Hattori
Genome Research, September 2002; 12(9): 1323-1332.

[Fungal target genes and methods to identify those genes.](#)

Inventors: Xun Wang, Barbara Gillian Turgeon, Olen Yoder, Jianguo Wu
US Patent Application: 2002/0142324 A1, Publication Date: 3 October 2002;

[Genomic Analysis of Uncultured Marine Viral Communities.](#)

Mya Breitbart, Peter Salamon, Bjarne Andresen, Joseph M. Mahaffy, Anca M. Segall, David Mead, Farooq Azam, and Forest Rohwer
Proc Natl Acad Sci U S A, 29 October 2002; 99(22):14250-14255

[Draft Sequencing and Comparative Genomics of *Xylella fastidiosa* Strains Reveal Novel Biological Insights.](#)

Anamitra Bhattacharyya, Stephanie Stilwagen, Gary Reznik, Helene Feil, William S. Feil, Iain Anderson, Axel Bernal, Mark D'Souza, Natalia Ivanova, Vinayak Kapatral, Niels Larsen, Tamara Los, Athanasios Lykidis, Eugene Selkov, Jr., Theresa L. Walunas, Alexander Purcell, Rob A. Edwards, Trevor Hawkins, Robert Haselkorn, Ross Overbeek, Nikos C. Kyrpides, and Paul F. Predki
Genome Research, October 2002; 12(10): 1556-1563

[Mating-type locus of *Cryptococcus neoformans*: a step in the evolution of sex chromosomes.](#)

Klaus B. Lengeler, Deborah S. Fox, James A. Fraser, Andria Allen, Keri Forrester, Fred S. Dietrich, and Joseph Heitman.
Eukaryotic Cell, October 2002; 1(5): 704-718.

[The regulatory regions required for B' paramutation and expression are located far upstream of the maize b1 transcribed sequences.](#)

Maïke Stam, Christiane Belele, Wusirika Ramakrishna, Jane E. Dorweiler, Jeffrey L. Bennetzen, and Vicki L. Chandler
Genetics, October 2002; 162(2): 917-930

[Genome Sequence of the Endocellular Obligate Symbiont of Tsetse Flies, *Wigglesworthia glossinidia*.](#)

Leyla Akman, Atsushi Yamashita, Hidemi Watanabe, Kenshiro Oshima, Tadayoshi Shiba, Masahira Hattori and Serap Aksoy
Nature Genetics, November 2002; 32(3): 402-407.

[The complete genomic sequence of *Mycoplasma penetrans*, an intracellular bacterial pathogen in humans.](#)

Yuko Sasaki, Jun Ishikawa, Atsushi Yamashita, Kenshiro Oshima, Tsuyoshi Kenri, Keiko Furuya, Chie Yoshino, Atsuko Horino, Tadayoshi Shiba, Tsuguo Sasaki and Masahira Hattori
Nucleic Acids Research, 1 December 2002; 30(23): 5293-5300.

[Genes for the biosynthesis of epothilones.](#)

Inventors: Thomas Schupp, James Madison Ligon, Istvan Molnar, Ross Zirkle, Devon Dawn Cyr, Jorn Gorlach,
US Patent Application: 2002/0192778 A1, Publication Date: 19 December 2002;

[Finishing a whole-genome shotgun: Release 3 of the *Drosophila melanogaster* euchromatic genome sequence](#)

Susan E Celniker, David A Wheeler, Brent Kronmiller, Joseph W Carlson, Aaron Halpern, Sandeep Patel, Mark Adams, Mark Champe, Shannon P Dugan, Erwin Frise, Ann Hodgson, Reed A George, Roger A Hoskins, Todd Laverty, Donna M Muzny, Catherine R Nelson, Joanne M Pacleb, Soo Park, Barret D Pfeiffer, Stephen Richards, Erica J Sodergren, Robert Svirskas, Paul E Tabor, Kenneth Wan, Mark Stapleton, Granger G Sutton, Craig Venter, George Weinstock, Steven E Scherer, Eugene W Myers, Richard A Gibbs, and Gerald M Rubin
Genome Biology, 23 December 2002; 3(12): research0079.1-79, 14 pp.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC151181/>

[Identification of microbial polynucleotides expressed during infection of a host.](#)

Inventor: Jeffrey Daniel Hillman
US Patent Application: 2002/0197625 A1, Publication Date: 26 December 2002;

[Genes of Periodontopathogens Expressed During Human Disease.](#)

Yo-Han Song, Emil V. Kozarov, Sheila M. Walters, Sam Linsen Cao, Martin Handfield, Jeffrey D. Hillman, Dr. Ann Progulsk-Fox
Annals of Periodontology, December 2002; 7(1): 38-42.

[Marine phage genomics.](#)

John H. Paul, Matthew B. Sullivan, Anca M. Segall and Forest Rohwer
Comparative Biochemistry & Physiology Part B: Biochemistry & Molecular Biology, December 2002; 133(4): 463-476

[Contiguous genomic DNA sequence comprising the 19-kD zein gene family from maize.](#)

Rentao Song and Joachim Messing
Plant Physiology, December 2002; 130(4): 1626-1635

2001.

Identification of a Novel Member of the *Snail/Gfi-1* Repressor Family, *mlt 1*, Which Is Methylated and Silenced in Liver Tumors of SV40 T Antigen Transgenic Mice.

Minako Tateno, Yoshifumi Fukunishi, Sei Komatsu, Yasushi Okazaki, Jun Kawai, Kazuhiro Shibata, Masayoshi Itoh, Masami Muramatsu, William A. Held and Yoshihide Hayashizaki
Cancer Research, 1 February 2001; 61(3): 1144-1153

Molecular Evolution of Receptor-Like Kinase Genes in Hexaploid Wheat. Independent Evolution of Orthologs after Polyploidization and Mechanisms of Local Rearrangements at Paralogous Loci.

Catherine Feuillet, Anja Penger, Klaus Gellner, Austin Mast, and Beat Keller
Plant Physiology, March 2001; 125(3): 1304-1313

Comparative Sequence Analysis of Colinear Barley and Rice Bacterial Artificial Chromosomes. Plant.

Jorge Dubcovsky, Wusirika Ramakrishna, Phillip J. SanMiguel, Carlos S. Busso, Liuling Yan, Bryan A. Shiloff, and Jeffrey L. Bennetzen
Plant Physiology, March 2001; 125(3): 1342-1353.

Human Chromosome 19 and Related Regions in Mouse Conservative and Lineage-Specific Evolution.

Paramvir Dehal, Paul Predki, Anne S. Olsen, Art Kobayashi, Peg Folta, Susan Lucas, Miriam Land, Astrid Terry, Carol L. Ecale Zhou, Sam Rash, Qing Zhang, Laurie Gordon, Joomyeong Kim, Christopher Elkin, Martin J. Pollard, Paul Richardson, Dan Rokhsar, Ed Uberbacher, Trevor Hawkins, Elbert Branscomb, Lisa Stubbs
Science, 6 July 2001; 293(5527): 104-111.

Characterization of Human Skeletal Muscle *Ankrd2*.

Alberto Pallavicini, Snezana Kojić, Camilla Bean, Mariz Vainzof, Michela Salamon, Chiara Ievolella, Gladis Bortoletto, Beniamina Pacchioni, Mayana Zatz, Gerolamo Lanfranchi, Georgine Faulkner and Giorgio Valle
Biochemical and Biophysical Research Communications, 13 July 2001; 285(2): 378-386.

The Y chromosome in the liverwort *Marchantia polymorpha* has accumulated unique repeat sequences harboring a male-specific gene.

Sachiko Okada, Takefumi Sone, Masaki Fujisawa, Shigeki Nakayama, Mizuki Takenaka, Kimitsune Ishizaki, Kaoru Kono, Yuu Shimizu-Ueda, Tsutomu Hanajiri, Katsuyuki T. Yamato, Hideya Fukuzawa, Axel Brennicke, and Kanji Ohyama
Proc Natl Acad Sci U S A, 31 July 2001; 98(16): 9454-9459.

Regions of Microsynteny in *Magnaporthe grisea* and *Neurospora crassa*.

Lisbeth Hamer, Huaqin Pan, Kiichi Adachi, Marc J. Orbach, Amy Page, Lakshman Ramamurthy, and Jeffrey P. Woessner
Fungal Genetics Biology, July 2001; 33(2): 137-143.

Sequence of the pig major histocompatibility region containing the classical class I genes.

Christine Renard, Marcel Vaiman, Nuchanard Chiannilkulchai, Laurence Cattolico, Catherine Robert, Patrick Chardon
Immunogenetics, August 2001; 53(6): 490-500.

New products for molecular biology.

(Editorial)

Molecular Biotechnology, September 2001; 19(1): 109-115

Convergence of distinct pathways to heart patterning revealed by the small molecule concentramide and the mutation *heart-and-soul*

Randall T. Peterson, John D. Mably, Jau-Nian Chen and Mark C. Fishman
Current Biology, 2 October 2001; 11(19): 1481-1491

Genome sequence of an industrial microorganism *Streptomyces avermitilis*: Deducing the ability of producing secondary metabolites.

Satoshi Ōmura, Haruo Ikeda, Jun Ishikawa, Akiharu Hanamoto, Chigusa Takahashi, Mayumi Shinose, Yoko Takahashi, Hiroshi Horikawa, Hidekazu Nakazawa, Tomomi Osonoe, Hisashi Kikuchi, Tadayoshi Shiba, Yoshiyuki Sakaki, Masahira Hattori
Proc Natl Academy Sciences U S A, 9 October 2001; 98(21): 12215-12220.

New Products (Products Review)

(Editorial)

Journal of Biomolecular Screening, October 2001; 6(5): 339-355.

Mutations in CGI-58, the Gene Encoding a New Protein of the Esterase/Lipase/Thioesterase Subfamily, in Chanarin-Dorfman Syndrome.

Caroline Lefèvre, Florence Jobard, Frédéric Caux, Bakar Bouadjar, Aysen Karaduman, Roland Heilig, Hakima Lakhdar, Andreas Wollenberg, Jean-Luc Verret, Jean Weissenbach, Meral Özgüc, Mark Lathrop, Jean-François Prud'homme, and Judith Fischer
Am J Human Genetics, 1 November 2001; 69(5): 1002-1012.

Sequence, Regulation, and Evolution of the Maize 22-kD Alpha Zein Gene Family.

Rentao Song, Victor Llaca, Eric Linton, and Joachim Messing
Genome Research, November 2001; 11(11): 1817-1825

High-Throughput Variation Detection and Genotyping Using Microarrays.

Cutler DJ, Zwick ME, Carrasquillo MM, Yohn CT, Tobin KP, Kashuk C, Mathews DJ, Shah NA, Eichler EE, Warrington JA, Chakravarti A.
Genome Research, November 2001; 11(11): 1913-1925

Shotgun DNA sequencing.

Alan T. Bankier

Methods Molecular Biology, 2001; 167(DNA Sequencing Protocols): 89-100.

2000.

The biosynthetic gene cluster for the microtubule-stabilizing agents epothilones A and B from *Sorangium cellulosum* So ce90.

István Molnár, Thomas Schupp, M Ono, RE Zirkle, M Milnamow, B Nowak-Thompson, N Engel, C Toupet, A Stratmann, DD Cyr, J Grolach, JM Mayo, A Hu, S Goff, J Schmid and JM Ligon
Chemistry & Biology; 5 January 2000; 7(1): 97–109

Suite Dreams.

Bob Sinclair

The Scientist, 24 January 2000; 14(2): 22

Functional analysis of gapped microbial genomes: amino acid metabolism of *Thiobacillus ferrooxidans*.

Evgeni Selkov, Ross Overbeek, Yakov Kogan, Lien Chu, Veronika Vonstein, David Holmes, Simon Silver, Robert Haselkorn, and Michael Fonstein
Proc Natl Academy Sciences U S A, 28 March 2000; 97(7): 3509-3514.

The gene encoding the mouse homologue of the human osteoclast-specific 116-kDa V-ATPase subunit bears a deletion in osteosclerotic (oc/oc) mutants.

J.-C. Scimeca, A. Franchi, C. Trojani, H. Parrinello, J. Grosgeorge, C. Robert, O. Jaillon, C. Poirier, P. Gaudray, G.F. Carle
Bone, March 2000; 26(3): 207-213

An ATM Homologue from *Arabidopsis thaliana*: Complete Genomic Organisation and Expression Analysis.

Valérie Garcia, Marcel Salanoubat, Nathalie Choisne and Alain Tissier
Nucleic Acids Research, 15 April 2000; 28(8): 1692-1699.

Complete genomic sequence of the human *ABCA1* gene: Analysis of the human and mouse ATP-binding cassette A promoter.

Silvia Santamarina-Fojo, Katherine Peterson, Catherine Knapper, Yang Qiu, Lita Freeman, Jan-Fang Cheng, José Osorio, Alan Remaley, Xiao-Ping Yang, Changting Haudenschild, Catherine Prades, Giovanna Chimini, Eunice Blackmon, Teena Francois, Nicholas Duverger, Edward M. Rubin, Marie Rosier, Patrice Denèfle, Donald S. Fredrickson, H. Bryan Brewer, Jr.
Proc Natl Academy Sciences U S A, 5 July 2000; 97(14): 7987-7992

Automation for Genomics, Part One: Preparation for Sequencing.

Deirdre Meldrum

Genome Research, August 2000; 10(8): 1081-1092

Genome sequence of the endocellular bacterial symbiont of aphids *Buchnera* sp. APS.

Shuji Shigenobu, Hidemi Watanabe, Masahira Hattori, Yoshiyuki Sakaki & Hajime Ishikawa
Nature, 7 September 2000; 407(6800): 81-86.

A novel ATPase on mouse chromosome 7 is a candidate gene for increased body fat.

Madhu Dhar, Lisa S. Webb, Laurel Smith, Loren Hauser, Dabney Johnson and David B. West
Physiol Genomics, 9 November 2000; 4(1): 93-100

Subgenome chromosome walking in wheat: a 450-kb physical contig in *Triticum monococcum* L. spans the Lr10 resistance locus in hexaploid wheat (*Triticum aestivum* L.).

Nils Stein, Catherine Feuillet, Thomas Wicker, Edith Schlagenhauf, and Beat Keller
Proc Natl Academy Sciences U S A, 21 November 2000; 97(24): 13436-13441.

1999.

Environmental Adaptations in Novel *Bacillus* Species Isolated from a Boiling Thermal Pool.

P. J. Brumm, M. Patterson, David. Mead

Microbial & Comparative Genomics, 11 June 1999, 4(2): 83-90

Poster (http://www.short-termsolutions.com/images/EnvAdap_Boiling_Pool_opt.pdf)

Faster production of random DNA double adaptor shotgun library.

Cai Wu, Dai Lee, Richard Gibbs

Baylor College of Medicine publication, 1999; p.1-21

<http://www2.cs.uh.edu/~cwu/HGSC/DNAPAPER.doc>

1998.

An Automated Hydrodynamic Process for Controlled, Unbiased DNA Shearing.

Yvonne R. Thorstenson, Scott P. Hunicke-Smith, Peter J. Oefner, and Ronald W. Davis

Genome Research, August 1998; 8(8): 848-855

Positional cloning of the gene for X-linked retinitis pigmentosa 2.

Uwe Schwahn, Steffen Lenzner, Juan Dong, Silke Feil, Bernd Hinzmann, Gerard van Duijnhoven, Renate Kirschner, Myriam Hemberger, Arthur A.B. Bergen, Thomas Rosenberg, Alfred J.L.G. Pinckers, Reinald Fundele, André Rosenthal, Frans P.M. Cremers, H.- Hilger Ropers & Wolfgang Berger

Nature Geneics, August 1998; 19(4):327-332

1997.

Exhibit Descriptions.

Gene Machines

Microbial & Comparative Genomics, January 1997; 2(3): 244-249.