



LIST OF PUBLICATIONS ON USE OF MAIA'S MIAS-2 (2002 – 10 January 2018)

2018.

2017.

2016.

[High-throughput imaging: Focusing in on drug discovery in 3D.](#)

Linfeng Li, Qiong Zhou, Ty C. Voss, Kevin L. Quick, and Daniel V. LaBarbera.
Methods, 1 March 2016; 96: 97-102.

[High-Content Screening Goes Beyond Fluorescent Pictures](#)

Kris Ver Donck

BioPhotonics, July-August 2016; 23(5): 30-33.

<http://www.photonics.com/article.aspx?aid=60806&pid=1&vid=138&iid=889>

2015.

[Assays, systems, and methods for obtaining personalized anabolic profiles](#)

Inventor: Monty Montano

US Patent Application: 2015/0285789 A1, Publication Date: 8 October 2015; (MIAS-2, eaZYX)

<http://www.freepatentsonline.com/y2015/0285789.html>

2014.

[P75NTR screening assay.](#)

Inventors: Wouter David Bruinzeel, and Miroslav Cik.

United States Patent: US 8637464 B2, Publication Date: 28 January 2014.

<https://www.google.com/patents/US8637464>

[Phenotypic profiling of Raf inhibitors and mitochondrial toxicity in 3D tissue using biodynamic imaging.](#)

Ran An, Dan Merrill, Larisa Avramova, Jennifer Sturgis, Maria Tsiper, J. Paul Robinson, John Turek, and David D. Nolte.

Journal of Biomolecular Screening, April 2014; 19(4): 526-537.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4028716/>

[BioDynamic Imaging and High-Content Analysis.](#)

David D. Nolte

Selected Works Purdue University Publication, Spring 2014; 14 pp.

<http://works.bepress.com/ddnolte/4/>

[Advanced cell culture techniques for cancer drug discovery.](#)

Carrie J. Lovitt, Todd B. Shelper, and Vicky M. Avery.

Biology, 30 May 2014; 3(2): 345-367.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4085612/>

[Microtubule-targeting agents: a therapeutic strategy in neurodegenerative diseases.](#)

Nuno Miguel Ferreira Morais Apóstolo

MS Theses, 2014; Universidade de Coimbra & Janssen Pharmaceutica, Beerse, 71 pp.

https://eg.sib.uc.pt/bitstream/10316/26345/1/Thesis_Nuno%20Ap%C3%B3stolo_Final.pdf

[Relevance of HIV infection to osteoblast-T cell crosstalk.](#)

Ariana Darcy Harris

PhD Theses, 2014; Boston University, 219 pp.

http://open.bu.edu/bitstream/handle/2144/15065/Harris_bu_0017E_10555.pdf?sequence=1&isAllowed=y

2013.

[Translation of a tumor microenvironment mimicking 3D tumor growth co-culture assay platform to high-content screening.](#)

Eberhard Krausz, Ronald de Hoogt, Emmanuel Gustin, Frans Cornelissen, Thierry Grand-Perret, Lut Janssen, Nele Vloemans, Dirk Wuyts, Sandy Frans, Amy Axel, Pieter Johan Peeters, Brett Hall, Miroslav Cik
Journal of Biomolecular Screening, January 2013; 18(1): 54-66.

<http://jbx.sagepub.com/content/18/1/54.long>

[DigiLab Moves Into Live and Stem-Cell Research Market with Launch of CellJet Arrayer.](#)

Justin Petrone

BioArray News, 12 July 2011;

<https://www.genomeweb.com/arrays/digilab-moves-live-and-stem-cell-research-market-launch-celljet-arrayer>

2012.

[Phaedra, a protocol-driven system for analysis and validation of high-content imaging and flow cytometry.](#)

Frans Cornelissen, Miroslav Cik, and Emmanuel Gustin.

Journal of Biomolecular Screening, April 2012; 17(4): 496-506.

<http://jbx.sagepub.com/content/17/4/496.long>

[A novel library screen identifies immunosuppressors that promote osteoblast differentiation.](#)

Ariana Darcy, Micah Meltzer, Joseph Miller, Steven Lee, Scott Chappell, Kris Ver Donck, and Monty Montano.

Bone, June 2012; 50(6): 1294-1303.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3352976/pdf/nihms368149.pdf>

[Novel strategy to produce a drug delivery system for skin regeneration.](#)

Diana Patrícia Rodrigues Gaspar

MS Theses, June 2012; Universidade da Beira Interior, Covilhã, 59 pp.
http://ubibliorum.ubi.pt/bitstream/10400.6/1118/1/Tese_Diana%20Gaspar.pdf

[Assay Development Guidelines for Image-Based High Content Screening, High Content Analysis and High Content Imaging.](#)

William Buchser, Mark Collins, Tina Garyantes, Rajarshi Guha, Steven Haney, Vance Lemmon, Zhuyin Li and O. Joseph Trask.

In: *Assay Guidance Manual*, 12 October 2012; Editors: G. Sitta Sittampalam, Nathan P. Coussens, Kyle Brimacombe, Abigail Grossman, Michelle Arkin, Douglas Auld, Chris Austin, Jonathan Baell, Bruce Bejcek, Thomas D.Y. Chung, Jayme L. Dahlin, Viswanath Devanaryan, Timothy L. Foley, Marcie Glicksman, Matthew D. Hall, Joseph V. Hass, James Inglese, Philip W. Iversen, Steven D. Kahl, Stephen C. Kales, Madhu Lal-Nag, Zhuyin Li, James McGee, Owen McManus, Terry Riss, O. Joseph Trask, Jr., Jeffrey R. Weidner, Menghang Xia, and Xin Xu, Bethesda, Eli Lilly & Co. and NCATS, pp. 1-54

<http://www.ncbi.nlm.nih.gov/books/NBK100913/?report=reader#!po=0.925926>

[Automation in image cytometry: continuous HCS and kinetic image cytometry.](#)

David J. Charlot

PhD Theses, 2012; University of California, San Diego, 120 pp.

<http://gradworks.umi.com/35/04/3504995.html>

2011.

[Inhibition of Cell Growth by Compounds. \(Automated Assessment of Compound-induced Growth Inhibition of Unlabelled Human Epidermal Keratinocytes Using the MIAS®-2 truVIEW Microscopy Reader and eaZYX® Imaging Software\)](#)

Bieke Govaerts, Leen Geuens, Marc Moeremans, Kris Ver Donck, and Johan Geysen.

Application Note, Digilab, 2010; 2 pp.

<http://www.digilabglobal.com/UploadedFiles/Files/143DCellGrowthInhibitionAN.pdf>

2010.

[Live Cell Image Analysis, eaZYX Image Analyzer](#)

David Drapcho

YouTube video, 20 April 2010; 1 min 20 sec

<https://www.youtube.com/watch?v=L5P4oWeM8Tk>

[Validation of primary hippocampal cultures for the study of neuronal dynamics.](#)

Marta Santos Esteves da Silva

MS Theses, November 2010; Universidade de Coimbra & Janssen Pharmaceutica, Belgium, 132 pp.

<file:///C:/Documents%20and%20Settings/izlatkin/My%20Documents/Downloads/MEdS%20MBCM%20thesis.pdf>

[Label-Free/Live Suspension Cell Counting. \(Automated Counting of Label-free Live U-937 Suspension Cells in 96-well Plates Using the MIAS®-2 truVIEW Microscopy Reader and eaZYX® Imaging Software\)](#)

Bieke Govaerts, Leen Geuens, Marc Moeremans, Kris Ver Donck, and Johan Geysen.

Application Note, Digilab, 2010; 2 pp.

<http://www.digilabglobal.com/UploadedFiles/Files/147DANE064100101A4.pdf>

Label-Free/Live Adherent Cell Confluence. (Automated Assessment of the Area Occupied by Unlabelled Living CHO Cells in 96 well plates using the MIAS®-2 truVIEW Microscopy Reader and eaZYX® Imaging Software)

Bieke Govaerts, Leen Geuens, Marc Moeremans, Kris Ver Donck, and Johan Geysen.

Application Note, Digilab, 2010; 2 pp.

<http://www.digilabglobal.com/UploadedFiles/Files/148ANE064100201A4.pdf>

2009.

Bio-equivalence Following Peristaltic & Nanodroplet Cell Dispensing: Lessons from Side-by-side Testing With Cell Lines & Human Primaries

Marc Moeremans, Malcolm Willson, Luc Bols, Kris Ver Donck & Johan Geysen

In: *SBS 15th Annual Conference & Exhibition*, 26-30 April 2009; Lille, France

<http://www.digilabglobal.com/media/DMarcMoeremansCellDispensingSBS2009.pdf>

The NemaGENETAG initiative: large scale transposon insertion gene-tagging in *Caenorhabditis elegans*.

Daphne Bazopoulou and Nektarios Tavernarakis

Genetica, September 2009; 137(1): 39-46

<http://www.tavernarakislab.gr/publications/genetica.pdf>

Label-Free Live-Cell Imaging for High-Content Screening

David L. Drapcho, Kris Ver Donck, Terry McCann

BioPhotonics, November 2009; 16(7): 28-31

<https://www.photonics.com/Article.aspx?AID=40416>

Image-Based High Content Screening.

Yan Feng, Christopher J. Wilson

In: *A Practical Guide to Assay Development and High-Throughput Screening in Drug Discovery* (Critical Reviews in Combinatorial Chemistry), 21 December 2009; Taosheng Chen (Editor) CRC Press, Boca Raton, FL, pp.143-155

2008.

Brightfield Image Analysis as a Label-free Adjunct to Fluorescent High Content Screening Assays for Improved Assay Performance & Data Quality

Kris Ver Donck, Marc Moeremans, Yves Willems and Johan Geysen

In: *SBS 2008*, 7-10 April 2008; St Louis, USA

<http://www.digilabglobal.com/media/5511fb978fd4d.pdf>

Functional characterization of three G protein-coupled receptors for pigment dispersing factors in *Caenorhabditis elegans*.

Tom Janssen, Steven J. Husson, Marleen Lindemans, Inge Mertens, Suzanne Rademakers, Kris Ver Donck, Johan Geysen, Gert Jansen, and Liliane Schoofs.

Journal of Biological Biochemistry, 30 May 2008; 283(22): 15241-15249.

<http://www.jbc.org/content/283/22/15241.long>

<http://www.jbc.org/content/suppl/2008/04/04/M709060200.DC1.html>

P75NTR screening assay for identifying modulators of apoptosis.

Inventors: Wouter David Bruinzeel, Miroslav Cik

European Union Patent: EP1771572 B1; Publication Date: 15 October 2008

<http://worldwide.espacenet.com/publicationDetails/originalDocument?CC=EP&NR=1771572B1&KC=B1&local=&date=&FT=D>

2007.

[Computational image analysis of chemical-induced symptoms in *C. elegans*.](#)

Anthony J. Flemming, Kris Ver Donck, and Johan Geysen.

In: *International Worm Meeting*. 2007

<http://www.digilabglobal.com/UploadedFiles/Files/151D2007LAPosterwormtrack.pdf>

2006.

[Object-oriented image analysis for high content screening: Detailed quantification of cells and sub cellular structures with the Cellenger software.](#)

Martin Baatz, Nick Arini, Arno Schape, Gerd Binnig, Bettina Linszen

Cytometry, Part A, July 2006; 69A(7): 652–658

<http://onlinelibrary.wiley.com/doi/10.1002/cyto.a.20289/full>

[Tools and Technologies that Facilitate Automated Screening.](#)

John Comley

In: *High-Throughput Screening in Drug Discovery*, Volume 35, October 2006; (Editor Jörg Hüser), Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, pp. 37-73

[Caenorhabditis elegans: a versatile platform for drug discovery.](#)

Marta Artal-Sanz, Liesbeth de Jong, and Nektarios Tavernarakis.

Biotechnology Journal, December 2006; 1(12): 1405-1418.

<http://tavernarakislab.gr/publications/BTJ-MAS.pdf>

[High-Content Screening of Functional Genomic Libraries.](#)

Daniel R. Rines, Buu Tu, Loren Miraglia, Genevieve L. Welch, Jia Zhang, Mitchell V. Hull, Anthony P. Orth, and Sumit K. Chanda.

Methods in Enzymology, 2006; 414 (Measuring Biological Responses with Automated Microscopy): 530-565.

2005.

[P75ntr Screening Assay.](#)

Inventors: Wouter David Bruinzeel, Miroslav Cik

US Patent Application: US 2008/0064036 A1, Publication Date: 13 March 2008

<http://www.google.com/patents/US20080064036>

[HIGH CONTENT SCREENING: emerging importance of novel reagents/probes and pathway analysis.](#)

John CW Comley

Drug Discovery Word, Summer 2005; 6(2): 31-53 (we have pdf-file)

[Smart cell culture.](#)

Inventors: Rosemary Ann Lucy Drake, Robert Bernard Simon Oakeshott

EU Patent Application: EP1598415 A1, Publication Date: 23 November 2005

<http://www.google.com/patents/EP1598415A1>

Smart cell culture.

Inventors: Rosemary Ann Lucy Drake, Robert Bernard Simon Oakeshott

US Patent Application: US 2005/0260743 A1, Publication Date: 24 November 2005

<http://www.google.com/patents/US20050260743>

2004.

Accurate Assignment Of Cytoplasmic Structures To Individual Cells In Automated, High-Volume Image Cytometry

Kris Ver Donck, Peter Van Osta, Luc Bols, Bart Vanherck, Johan J.G.H. Geysen

Cytometry Part A, 25 May 2004; 59A(1): 74

<http://onlinelibrary.wiley.com/doi/10.1002/cyto.a.20045.abs/pdf>

2002.

One-Step Recognition of Living *C. elegans* in 384-well Plate Cultures using Linear Scale Space Mathematics.

Peter Van Osta, Kris Ver Donck, Jan-Mark Geusebroek, Luc Bols & Johan Geysen

In: *European C. elegans Meeting*, 2002; Paestum, Italy

<http://www.digilabglobal.com/media/OneStepPoster.pdf>

The principles of scale space applied to structure and colour in light microscopy

P. Van Osta, J.M. Geusebroek, K. Ver Donck, L. Bols, J. Geysen, B.M. ter Haar Romeny

Proceedings RMS, September 2002; 37(3): 161-166

<http://www.digilabglobal.com/media/ARTICLE-ScaleSpaceProceedingsPub.pdf>