



Publication List

Scientific Topic	Application Notes	Publications	Poster
<p>Toxicology</p>	<p>AppNote 001 A Evaluating agarose embedded suspension cells (lymphocytes) using the Bionas® 2500 analyzing system</p> <p>AppNote 002 A Prediction of hepatotoxic effects in hepatocytes from different sources</p> <p>AppNote 003 A Temporal analysis of the pharmacodynamics effects of cycloheximide</p> <p>AppNote 007 A Real-time analysis of mitochondrial and glycolytic metabolic pathways using the Bionas® 2500 analyzing system</p>	<p>Weidmann A et al. Pre-vention of lens epithelial cell growth in vitro using mibefradil-containing PLGA micro particles. The Open Ophthalmology Journal, 2008, 2: 112-118.</p> <p>Ceriotti L et al. Online monitoring of BALB/3T3 metabolism and adhesion with multiparametric chip-based system. Analytical Biochemistry, 2007, 371 (1): 92-104.</p> <p>Thedinga E et al. In vitro system for prediction of hepatotoxic effects in primary hepatocytes. ALTEX, 2007, 24 (1):22-34.</p> <p>Thedinga E et al. On-line monitoring of cell metabolism for studying pharmaco-dynamic effects. Toxicology and Applied Pharmacology, 2007, 220: 33-44.</p> <p>Ceriotti L et al. Real-time assessment of cytotoxicity by impedance measurement on a 96-well plate. Sensors and Actuators B: Chemical, 2006, 123 (2): 769-778.</p> <p>Andrä et al. Online monitoring of metabolism and morphology of peptide-treated neuroblastoma cancer cells and keratinocytes Journal of Bioenergetics and Biomembranes, Volume 43, Number 3, 275-285, DOI: 10.1007/s10863-011-9350-y</p> <p>Mariani V et al. Online monitoring of cell metabolism to assess the toxicity of nanoparticles: The case of cobalt ferrite Nanotoxicology, 2011; Early Online, 1–16</p>	<p>Ortinou 2010a Label-free cell-based on-line monitoring of cells in the focus of pharmacological in vitro studies</p> <p>Ortinou 2010b Cell-based on-line monitoring of suspension cells in the focus of in vitro immunotoxicity studies</p> <p>Ortinou 2010c Real-time label-free monitoring of bioenergetics and cell impedance for long and short-term in vitro assays</p> <p>Alborzinia 2008 Effects of metal organic compounds on cell metabolism</p> <p>Alborzinia 2007 Assessment of cellular metabolism and adhesion properties in response to apple extract</p> <p>Jehle 2007b Online monitoring of suspension cells in the focus of in vitro immunotoxicity-studies</p> <p>Mestres 2006a A new method to assess drug sensitivity on breast tumor acute slices preparation</p> <p>Thedinga 2006a In vitro detection of early signals of hepatotoxic effects</p> <p>Weidmann 2006 Influence of the T-Type calcium channel blocker Mebefradil into signalling pathways in human lens epithelial cells</p> <p>Thedinga 2004b New automated cell based analyzing system for reduction of animal tests</p>



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<p>Drug Discovery</p>	<p>AppNote 002 B Monitoring of native Gq receptor-coupled activation and inhibition by impedance measurement</p> <p>AppNote 003 B Monitoring of endogenous GPCR signalling with the Bionas Discovery™ adcon reader</p> <p>AppNote 008 A Hit Validation and Drug Profiling of Small Molecule Inhibitors in Human Cancer Cell Lines</p>	<p>Hille A et al. [N,N'-Bis-(salicylidene)-1,2-phenylene-diamine]metal complexes with cell death promotion properties. Journal of Bio-logical Inorganic Chemistry, 2009, 14 (5): 711-25.</p> <p>Harlos M et al. Synthesis, biological activity and structure -activity relationships for potent cytotoxic rhodium(III) polypyridyl com-plexes. Journal of Medicinal Chemistry, 2008, 51: 3924-3933.</p>	<p>Seeland 2010-10-29 Identification of P-Glycoprotein Substrates by Real-Time Monitoring of Living Cells</p> <p>Harlos 2009 Effects of synthesized cytotoxic compounds on the metabolic activity of different tumor cells</p> <p>Gatfield 2008 Integrating cell-impedance technology to characterize GPCR signalling in recombinant and non-recombinant cells</p> <p>Thedinga 2004a New automated cell based analysing System for pre-clinical drug profiling</p>
<p>Oncology</p>	<p>AppNote 005 A Influence of p53 status on anticancer drug sensitivity and drug resistance</p>	<p>Abarzua S et al. Online Monitoring of Cellular Metabolism in the MCF7-Carcinoma Cell Line Treated with Phytoestrogen Extracts. Anticancer Research, 2010, 30: 1587- 1592</p> <p>Dransfeld et al. SIRT3SNPs validation in 640 individuals, functional analyses and new insights into SIRT3 stability. International Journal of Oncology, 2010, 36: 955-960</p> <p>Mestres P and Morguet A The Bionas technology for anticancer drug screening. Expert Opinion on Drug Discovery, 2009, 4 (7): 785-797.</p> <p>Schatzschneider U et al. Cellular uptake, cytotoxicity and metabolic profiling of human cancer cells treated with ruthenium(II) polypyridyl complexes [Ru(bpy)2(N--N)]C12 with N--N=bpy, phen, dpq, dppz and dppn. ChemMedChem, 2008, 3:1104-1109.</p> <p>Mestres-Ventura P et al. Application of silicon sensor technologies to tumor tissue in vitro: detection of metabolic correlates of chemosensitivity. Methods in Molecular Medicine, 2005, 111: 109-25.</p>	<p>Abarzua 2008 Online monitoring of cellular metabolism for studying anticarcinogenic effects of Linum Phytoestrogen extracts in the human mammalian carcinoma cell line MCF7</p> <p>Morguet 2008 The impact of p53 status on cellular sensitivity to 5 fluorouracil: mult-parametric biosensor study</p> <p>Morguet 2007 Effects of Enzastaurin and Alimta on cancer cells and tumour tissue using the Bionas 2500 analyzing system – a new silicon sensor-chip technology</p> <p>Mestres 2006a A new method to assess drug sensitivity on breast tumor acute slices preparation</p> <p>Mestres 2006b Applications of Silicon-Sensor-Chip Apparatus to Determine Cell and Tumour Chemo-sensitivity ex vivo</p>



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<p>Oncology</p>		<p>Rubbiani R et al. Benzimidazol-2-ylidene gold(I) complexes are thioredoxin reductase inhibitors with 2 multiple antitumor properties J. Med. Chem. 2010</p> <p>Bieda R et al. Antileukemic activity and cellular effects of rhodium(III) crown thiaether complexes Biometals. 2011 Jan 28.</p> <p>Geldmacher Y et al. Cellular Selectivity and Biological Impact of Cytotoxic Rhodium(III) and Iridium(III) Complexes Containing Methyl-Substituted Phenanthroline Ligands ChemMedChem. 2011 Mar 7</p> <p>Alborzinia H Real-Time Monitoring of Cis-Platin Induced Cell Death PLoS ONE 6(5): e19714. doi:10.1371/journal.pone.0019714 2011</p>	
<p>Quality Management</p>	<p>AppNote 004 A Culturing & measurement optimization for improved cell physiology in toxicology applications</p> <p>AppNote 001 B Monitoring of proliferation of cell lines by impedance measurement</p> <p>AppNote 004 B Assay validation and Z-factor calculation of GPCR activity with the Bionas Discovery™ adcon reader</p>	<p>Dransfeld Chr-L et al. Continuous multiparametric monitoring of cell metabolism in response to transient overexpression of the sirtuin deacetylase SIRT3 Clinical Epigenetics 2010</p> <p>Kubisch R et al. Characterization of eucaryotic cells as the sensitive layer of cell based cytotoxicity sensors Procedia Chemistry 1, 2009, 730–733</p>	<p>Drechsler 2010a Glycolysis or mitochondrial respiration? Influence of culture medium components on cell metabolism</p> <p>Stuetz 2009a Optimization of culture & measurement conditions for improved stability & sensitivity of cell physiology monitoring systems for toxicology applications</p>



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Stem Cells / Regenerative Medicine	AppNote 006 A Quality control and characterization of transformed and normal rat mesenchymal stem cells	<p>Gaebel R et al. Cell Origin of Human Mesenchymal Stem Cells Determines a Different Healing Performance in Cardiac Regeneration PLoS One. 2011 Feb 10;6(2):e15652.</p> <p>Rebl H et al. Time-dependent metabolic activity and adhesion of human osteoblast-like cells on sensor chips with a plasma polymer nanolayer Int J Artif Organs , 2010; 33 (10)</p> <p>Furlani D et al. A transformed cell population derived from cultured mesenchymal stem cells has no functional effect after transplantation into the injured heart. Cell Trans-plantation, 2009, 18: 319-331.</p>	<p>Furlani 2009a Abnormal Rat Mesenchymal Stem Cells Do Not Improve the Cardiac Function of the Infarcted Heart</p> <p>Gaebel 2009 Comparison of cardiac regenerative capacity of human mesenchymal stem cells from different sources</p> <p>Niendorf 2009 Determination of the viability and activity of bone cells within a three dimensional scaffold matrix</p> <p>Jesswein 2009 Time dependent adhesion of vital human osteoblasts on positively charged plasma polymer coated surfaces</p> <p>Thedinga 2008 A novel cell based Analysis system for continuous determination of cell physiology</p>

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