

Publication List

Scientific Topic	Application Notes	Publications	Poster
Toxicology	<p>Evaluating agarose embedded suspension cells (lymphocytes) using the Bionas[®] 2500 analyzing system</p> <p>Prediction of hepatotoxic effects in hepatocytes from different sources</p> <p>Temporal analysis of the pharmacodynamics effects of cycloheximide</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>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>
Drug Discovery		<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 relation-ships for potent cytotoxic rhodium(III) polypyridyl com-plexes. Journal of Medicinal Chemistry, 2008, 51: 3924-3933.</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 analyzing System for pre-clinical drug profiling</p>



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Oncology	Influence of p53 status on anticancer drug sensitivity and drug resistance	<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>
Quality Management	Culturing & measurement optimization for improved cell physiology in toxicology applications		<p>Stuetz 2009a Optimization of culture & measurement conditions for improved stability & sensitivity of cell physiology monitoring systems for toxicology applications</p>
Stem Cells / Regenerative Medicine	Quality control and characterization of transformed and normal rat mesenchymal stem cells	<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 Transplantation, 2009, 18: 319-331.</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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