



## BIBLIOGRAPHY

Please complete the form by checking the required boxes and e-mail ([info@chipmantech.com](mailto:info@chipmantech.com)) or fax your request to us on +358 (0) 10 750 5930.

### GENERAL INFORMATION

- Technology Brochure
- Stem Cell Brochure
- Cell-IQ v2 Specifications Sheet

### APPLICATION NOTES

- AN0001 - To study renal tubular epithelial cell (HK2) toxicity of amitriptylin using the Cell IQ comparing results to the traditional neutral red uptake method
- AN002 - The study of Antimycin toxicity using renal epithelial cells (HK2) using the Cell IQ
- AN003 - To study mercury toxicity in HK2 cells
- AN004 - Measurement of deoxyglucose toxicity in HK2 cells
- AN005 - To study the growth performance of MCF7breast cancer cells in the Cell IQ
- AN006 - Determination of neuride length in neural (SH-SY5Y) cells
- AN007 - Well to well consistency test with the Cell IQ
- AN008 - To study horizontal migration using the Cell IQ
- AN009 - To study the effects of 2 separate compounds on horizontal migration using the Cell-IQ
- AN010 - To study the effects of Mitomycin C on horizontal migration using the Cell-IQ
- AN011 - To study the effects of a Rho Kinase inhibitor on horizontal migration using the Cell-IQ
- AN012 - Semi-automated vertical migration assay to measure chemotaxis & chemokinesis using Corning CoStar (Transwell) filter plates

## POSTERS

- Drury SL, Rai J, Kachhwaha P, Darrell D, Hartshorne GM (2010). **An interesting case of tripronucleate cleavage observed during live cell time-lapse imaging.** Association of Clinical Embryologists annual meeting, Bristol, United Kingdom, January 4-5, 2010.
- Alessandra Bosutti, Roberta Pennucci, Sabine Matou, John Gaffney, Seth Love, Li-Huei Tsai, Karl Peter Giese, Shant Kumar, Jerzy Krupinski, Mark Slevin (2009). **Alterations in cyclin-dependent kinase 5 activator p35 signaling are associated with angiogenesis, in brain endothelial cells.** Molecular and cellular mechanisms of angiogenesis, Chester, United Kingdom, July 15-17, 2009.
- Merlin N M Walter, Sheila MacNeil, W. Eustace Johnson (2009). **Studies of intercellular interactions in skin wound repair using the scratch assay.** The 11th Spinal Research Network Meeting, Glasgow, United Kingdom, September 4-5, 2009.
- Stephanie L. Maloney, Dianne C. Sullivan, Steven Suchting, John M. J. Herbert, Erzsebet M. Rabai, Zsuzsanna Nagy, Jonathan Barker, Sudha Sundar, Roy Bicknell (2009). **Induction of thrombospondin-1 mediates the anti-angiogenic activity of dexrazoxane.** NCRI Cancer Conference, Birmingham, United Kingdom, 4-6 October, 2009.
- Bettina Lindroos, Kaisa-Leena Aho, Hannu Kuokkanen, Heini Huhtala, Olli Yli-Harja, Riitta Suuronen and Susanna Miettinen (2009). **In Vitro Characterisation of Human Adipose Stem Cells in Fetal Bovine Serum and Allogeneic Human Serum.** VI Tissue Engineering Symposium, Tampere, Finland, June 2-4, 2009.
- Mari Pekkanen-Mattila, Erja Kerkelä, Riitta Suuronen, Heli Skottman, and Katriina Aalto-Setälä (2009). **Continuous Monitoring of the Growth, Migration and Proliferation of Human Embryonic Stem Cell Derived Cardiac Cells.** International Society for Stem Cell Research-7th Annual Meeting in Barcelona, Spain July 8-11, 2009.
- Liisa Lehtonen, Jarno M. A. Tanskanen, Anne-Marie Haaparanta, Minna Kellomäki, Susanna Miettinen, Katriina Aalto-Setälä and Erja Kerkelä (2008). **The growth and characterization of stem cells and cardiomyocytes on biomaterials.** 8th World Biomaterials Congress, Amsterdam, The Netherlands, May 28- June 1, 2008.
- Mari Pekkanen-Mattila, Erja Kerkelä, Kaisa-Leena Taattola, Jarno Tanskanen, Ari-Pekka Koivisto, Jari Hyttinen, Outi Hovatta, Riitta Suuronen and Katriina Aalto-Setälä (2007). **Differentiation of Cardiomyocytes form Human Embryonic Stem Cells.** IV Tissue Engineering Symposium, March 12-14 2007, Tampere, Finland.
- Mari Pekkanen-Mattila, Erja Kerkelä, Kaisa-Leena Taattola, Jarno Tanskanen, Ari-Pekka Koivisto, Jari Hyttinen, Outi Hovatta, Riitta Suuronen and Katriina Aalto-Setälä (2007). **Differentiation of Cardiomyocytes form Human Embryonic Stem Cells.** SRC-SDARF-JDRF and Academy of Finland-JDRF Joint Programme in Stem Cell. Research, June 28-29, 2007, Sigtuna, Sweden.

- Bettina Lindroos, Riitta Suuronen and Susanna Miettinen (2008). **Optimization of adipose tissue stem cell culture media for clinical cell therapy applications.** Tissue Engineering Symposium, Tampere, Finland, April 2008.
- Erja Kerkelä, Mari Pekkanen-Mattila, Niina Elsinen, Jarno M. Tanskanen, Jari Hyttinen, Riitta Suuronen, Outi Hovatta, Katriina Aalto-Setälä (2007). **Differentiation and Characterization of Cardiomyocytes from Human Embryonic Stem Cells.** International Society for Stem Cell Research-5th Annual Meeting in Cairns, Australia June 17-20, 2007.
- Timo Ylikomi, Juha Korpinen & Jane Spencer-Fry(2007). **Automated analysis of cell behavior using the Cell-IQÒ.** SBS 13th Annual Meeting, Montreal, Canada, 2007.  
Timo Ylikomi, Juha Korpinen & Jane Spencer-Fry (2007). **Automated analysis and quantitation time lapse data of stem cell cultures with Cell-IQÒ.** ISSCR, Cairns, Australia, 2007.
- Karhumäki P, Alatalo SL and Parkkinen J.(2007). **High-content screening of cytoprotective agents in a kidney cell hypothermia model by automated image analyser (Cell-IQÒ).** FRC Blood Service, Helsinki, Finland. ISSCR Meeting, Australia, 2007.
- Ulla Impola, Hanna Salo, Tero Satomaa, Annamari Heiskanen, Juhani Saarinen, Leena Valmu, Jarmo Laine (2007). **Imaging the growth of human BM derived MSC plated on different glycan binding molecules with Cell-IQÒ, an automated cell culturing platform and machine vision.** Finnish Red Cross Blood Service, Research and Development, Helsinki, Finland, Glykos Finland Ltd., Helsinki, Finland. ISSCR Meeting, Australia, 2007.
- Tarja Toimela, Hanna Tähti, Jussi Tarvainen, Juha Korpinen and Timo Ylikomi (2006). **Automated analysis of cells by machine vision — Application in toxicity.** Toxicology Letters, Volume 164, Supplement 1, 20 September 2006, Pages S220-S221. Abstracts of the EUROTOX 2006/6 CTDC Congress - 43rd Congress of the European Societies of Toxicology & 6th Congress of Toxicology in Developing Countries, 2006.
- Verhaegen S, Higgs A., Tarvainen J, Murphy KJ, and Regan CM (2006). **Comparison of measurement of neurite outgrowth by two automated image analysis systems (Cell-IQÒ and Ramon) in the murine cell model, neuron 2A.** Applied Neurotherapeutics Research Group, UCD Conway Institute, University College Dublin, Belfield, Dublin 4, Ireland. SBS 12th Annual Meeting, Seattle, USA, 2006.
- Timo Ylikomi, T. Toimela and H. Tähti (2006). **Automated analysis of dynamic behavior of cells by machine vision Application in toxicity studies,** Medical School, Cell Research Center, 33014 University of Tampere, 2006.

## PAPERS

- Jaswinder K. Sethi<sup>1</sup> and Antonio Vidal-Puig (2010). **Wnt signalling and the control of cellular metabolism.** *Biochem. J.* (2010) 427 (1–17).
- Maria Sundberg<sup>a</sup>, Heli Skottman<sup>a</sup>, Riitta Suuronen, Susanna Narkilahti (2010). **Production and isolation of NG2<sup>+</sup> oligodendrocyte precursors from human embryonic stem cells in defined serum-free medium.** *Stem Cell Research*, Volume 5, Issue 2, September 2010, Pages 91-103.
- Pekkanen-Mattila M, Kerkelä E, Tanskanen JM, Pietilä M, Pelto-Huikko M, Hyttinen J, Skottman H, Suuronen R, Aalto-Setälä K. (2009). **Substantial variation in the cardiac differentiation of human embryonic stem cell lines derived and propagated under the same conditions - a comparison of multiple cell lines.** *Ann Med.* 2009;41(5):360-70. PubMed PMID: 19165643.
- Hicks AU, Lappalainen RS, Narkilahti S, Suuronen R, Corbett D, Sivenius J, Hovatta O, Jolkkonen J. (2009). **Transplantation of human embryonic stem cell-derived neural precursor cells and enriched environment after cortical stroke in rats: cell survival and functional recovery.** *Eur J Neurosci.* 2009 Feb;29(3):562-74. Epub 2009 Jan 17. PubMed PMID: 19175403.
- Lindeberg, Maria (2008). **Molecular and morphological studies of folliculogenesis, oocyte maturation and embryogenesis in humans.** PhD Thesis. <http://diss.kib.ki.se/2008/978-91-7409-063-5/thesis.pdf>
- N Kivi, D Greco, P Auvinen and E Auvinen (2008). **Genes involved in cell adhesion, cell motility and mitogenic signaling are altered due to HPV 16 E5 protein expression.** *Oncogene* (2008) 27, 2532–2541.
- Tarja Toimela, Hanna Tähti, and Timo Ylikomi (2008). **Comparison of automated pattern analysis machine vision time lapse system with traditional endpoint measurements in analyzing cell growth and cytotoxicity.** *ATLA*, 36: 313-335.
- Narkilahti S, Rajala K, Pihlajamäki H, Suuronen R, Hovatta O, Skottman H. (2007). **Monitoring and analysis of dynamic growth of human embryonic stem cells: comparison of automated instrumentation and conventional culturing methods.** *Biomed Eng Online.* 2007 Apr 12;6:11. PubMed PMID: 17428350; PubMed Central PMCID: PMC1854905.
- Kolb, A.(2007). **Intelligent monitoring of stem cell differentiation.** *BTi*, November, 10-12. Narkilahti S, Rajala K, Pihlajamäki H, Suuronen R, Hovatta O, Skottman H. (2007). **Monitoring and analysis of dynamic growth of human embryonic stem cells: comparison of automated instrumentation and conventional culturing methods.** *Biomed Eng Online*, 6:11.
- Nat R, Nilbratt M, Narkilahti S, Winblad B, Hovatta O, Nordberg A (2007). **Neurogenic neuroepithelial and radial glial cells generated from six human embryonic stem cell lines in serum-free suspension and adherent cultures.** *Glia*; 55(4):385-99.



- Tarja Toimela, Hanna Tähti, Jussi Tarvainen, Juha Korpinen and Timo Ylikomi (2006). **Automated analysis of cells by machine vision-Application in toxicity studies.** Toxicology Letters, volume 164, supplement 1:S220-S221. Abstracts of the EUROTOX 2006/6 CTDC Congress - 43rd Congress of the European Societies of Toxicology & 6th Congress of Toxicology in Developing Countries.
  
- Tarvainen J, Saarinen J, Laitinen J, Korpinen J, Viitanen J. (2002). **Creating images with high data contents for microworld applications.** Industrial Systems Review, 17-23, 2002.