

Recommended Reading List¹

Plenary Speakers

Epel D, Luckenbach T, Stevenson CN, MacManus-Spencer LA, Hamdoun A, Smital T. 2008. Efflux transporters: Newly appreciated roles in protection against pollutants. *Environmental Science & Technology* 42(11): 3914-3920.

Hamdoun A, and ***Epel D***. 2007. Embryo stability and vulnerability in an always changing world. *Proceeding of the National Academy of Science* 104(6): 1745–1750

Exposure Science Breakout Session

Garcia-Serna J, Pérez-Barrigón L, Cocero MJ. 2007. New trends for design towards sustainability in chemical engineering: Green engineering. *Chemical Engineering Journal* 133: 7-30.

Hubal EAC. 2009. Biologically relevant exposure science for 21st century toxicity testing. *Toxicological Sciences* 111: 226-232.

Sheldon LS and ***Hubal EAC***. 2009. Exposure as part of a systems approach for assessing risk. *Environmental Health Perspectives* 117: 1181-1184.

Smith MT and Rappaport SM. 2009. Building exposure biology centers to put the E into “G × E” interaction studies. *Environmental Health Perspectives* 117: A334-A335.

Weis BK, Balshaw D, Barr JR, Brown D, Ellisman M, Lioy P, et al. 2005. Personalized exposure assessment: promising approaches for human environmental health research. *Environmental Health Perspectives* 113: 840-848

Wild CP. 2005. Complementing the genome with an “exposome”: The outstanding challenge of environmental exposure measurement in molecular epidemiology. *Cancer Epidemiology, Biomarkers & Prevention* 14(8): 1847-1850.

¹ References recommended by workshop speakers; bolded and italicized names indicate workshop speakers.

Exposure Science Breakout Session (continued)

National Academies of Science workshop “The Exposome: A powerful approach to evaluating environmental exposures and their influences on human disease. Web link to presentations: http://dels-old.nas.edu/envirohealth/exposome_presentations.shtml.

Toxicity Testing Breakout Session

Abdul Kadir SH, Ali NN, Mioulane M, Brito-Martins M, Abu-Hayyeh S, Foldes G, Moshkov AV, Williamson C, Harding SE, and **Gorelik J**. 2009. Embryonic stem cell-derived cardiomyocytes as a model to study fetal arrhythmia related to maternal disease. *J Cell Mol Med*. 13(9B): 3730-3741.

Armstrong L, Tilgner K, Saretzki G, Atkinson SP, Stojkovic M, Moreno R, **Przyborski S**, Lako M. 2010. Human induced pluripotent stem cell lines show stress defense mechanisms and mitochondrial regulation similar to those of human embryonic stem cells. *Stem Cells* 28(4): 661-673.

Coen M, Want EJ, Clayton TA, Rhode CM, Hong YS, Keun HC, Cantor GH, Metz AL, Robertson DG, Reily MD, Holmes E, Lindon JC, and Nicholson JK. 2009. Mechanistic aspects and novel biomarkers of responder and non-responder phenotypes in galactosamine-induced hepatitis. *J Proteome Res*. 8(11): 5175-87.

Emgård M, Blomgren K, and Brundin P. 2002. Characterisation of cell damage and death in embryonic mesencephalic tissue: A study on ultrastructure, vital stains and protease activity. *Neuroscience* 115(4): 1177-87.

Emgård M, Holmberg L, Samuelsson EB, Bahr BA, Falci S, Seiger A, and Sundström E. 2009. Human neural precursor cells continue to proliferate and exhibit low cell death after transplantation to the injured rat spinal cord. *Brain Res*. 1278: 15-26.

Gallegos-Saliner A, Poater A, Jeliaskova N, **Patlewicz G**, and **Worth AP**. 2008. Toxmatch –A chemical classification and activity prediction tool based on similarity measures. *Regul Toxicol Pharmacol*. 52(2): 77-84.

Toxicity Testing Breakout Session (continued)

Gant TW, Zhang SD, and Taylor EL. Novel genomic methods for drug discovery and mechanism-based toxicological assessment. *Curr Opin Drug Discov Devel.* 12(1): 72-80.

Guguen-Guillouzo C, Corlua A, and Andre Guillouzo A. 2010. Stem cell-derived hepatocytes and their use in toxicology. *Toxicology* 270: 3-9.

Harding SE, Ali NN, Brito-Martins M, and **Gorelik J**. 2007. The human embryonic stem cell-derived cardiomyocyte as a pharmacological model. *Pharmacol Ther.* 113(2): 341-53.

Llinàs A and **Goodman JM**. 2008. Polymorph control: Past, present and future. *Drug Discovery Today* 13(5-6): 198-210.

Maltman DJ, Christie VB, Collings JC, Barnard JH, Fenyk S, Marder TB, Whiting A, and **Przyborski SA**. 2009. Proteomic profiling of the stem cell response to retinoic acid and synthetic retinoid analogues: Identification of major retinoid-inducible proteins. *Mol Biosyst.* 5(5): 458-71.

Mostrag-Szlichtyng A, Zaldívar Comenges JM, and **Worth AP**. 2010. Computational toxicology at the European Commission's Joint Research Centre. *Expert Opin Drug Metab Toxicol.* [Epub ahead of print] PubMed PMID: 20443752.

Nikolaev VO, Moshkov A, Lyon AR, Miragoli M, Novak P, Paur H, Lohse MJ, Korchev YE, Harding SE, and **Gorelik J**. 2010. β 2-adrenergic receptor redistribution in heart failure changes cAMP compartmentation. *Science* 327: 1653-1657.

Rao BM and Zandstra PW. 2005. Culture development for human embryonic stem cell propagation: molecular aspects and challenges. *Curr Opin Biotechnol.* 16(5): 568-76.

Toxicity Testing Breakout Session (continued)

Roberts DW and **Patlewicz GY**. 2010. Updating the skin sensitization *in vitro* data assessment paradigm in 2009 – A chemistry and QSAR perspective. *J Appl Toxicol*. 30(3): 286-288; discussion 289.

Rouquié D, Friry-Santini C, Schorsch F, Tinwell H, and Bars R. 2009. Standard and molecular NOAELs for rat testicular toxicity induced by flutamide. *Toxicol Sci*. 109(1): 59-65.

Sheikh Abdul Kadir SH, Miragoli M, Abu-Hayyeh S, Moshkov AV, Xie Q, Keitel V, Nikolaev VO, Williamson C, and **Gorelik J**. 2010. Bile acid-induced arrhythmia is mediated by muscarinic M2 receptors in neonatal rat cardiomyocytes. *PLoS One* 5(3): e9689.

Wierling C, Herwig R, and Lehrach H. 2007. Resources, standards and tools for systems biology. *Brief Funct Genomic Proteomic* 6(3): 240-51.

Yokota A, Takeuchi H, Maeda N, Ohoka Y, Kato C, Song SY, and **Iwata M**. 2009. GM-CSF and IL-4 synergistically trigger dendritic cells to acquire retinoic acid-producing capacity. *Int Immunol*. 21(4): 361-77.

Zhang SD and **Gant TW**. 2009. sscMap: an extensible Java application for connecting small-molecule drugs using gene-expression signatures. *BMC Bioinformatics* 10: 236.

Communication Breakout Session

Barker GC, Bayley C, Cassidy A, French S, Hart A, Malakar PK, Maule J, Petkov M, and **Shepherd R**. 2010. Can a participatory approach contribute to food chain risk analysis? *Risk Analysis* 30(5): 766-781.

Gabbert S and Van Ierland EC. 2010. Cost-effectiveness analysis of chemicals testing for decision-support: How to include animal welfare? *Human and Ecological Risk Assessment* 16(3) [In press].

Communication Breakout Session (continued)

Gabbert S and Weikard H-P. 2010. A theory of chemicals testing and regulation. *Natural Resources Forum* 34 (2): 155-164.

Jaworska J, **Gabbert S**, and Aldenberg T. 2010. Towards optimization of chemical testing under REACH: A Bayesian network approach to integrated testing strategies. *Regulatory Toxicology and Pharmacology* 57(2-3): 157-167.

Shepherd R, Barker G, French S, Hart A, Maule J, and Cassidy A. 2006. Managing food chain risks: integrating technical and stakeholder perspectives on uncertainty. *Journal of Agricultural Economics* 57: 311-327.

Shepherd R. 2008. Involving the public and stakeholders in the evaluation of food risks. *Trends in Food Science & Technology* 19: 234-239.