Selected Posters with Seahorse Extracellular Flux (XF) Data

Aging & Cell Stress

"Testing modulators of uncoupling protein (UCP) function in intact HEK293 cells using plate-based respirometry and membrane potential sensitive fluorescent probes." Martin Jastroch#, Akos A. Gerencser, and Martin D. Brand, Buck Institute for Age Research. Molecular & Cellular Bioenergetics Gordon Research Conference; June 10, 2009; Andover, NH

Cancer

"Cells addicted tp BCL-XL accumulate succinate via pyruvate carboxylase metabolism and glutaminolysis." Daciana Margineantu and David Hockenbery, Human Biology and Clinical Research Divisions, Fred Hutchinson Cancer Research Center. AACR Metabolism & Cancer Conference; September 13-16, 2009; La Jolla, CA

"Bioenergetic differences in breast cancer cell lines." DilshanS. Harischandra and David Hockenbery, Iowa State University and Fred Hutchinson Cancer Research Center. AACR Metabolism & Cancer Conference; September 13-16, 2009; La Jolla, CA

"2-Deoxyglucose Induces a Metabolic Switch to Mitochondrial Oxidative Energy Metabolism Resulting in Sensitization to Apoptosis of Glioblastoma Cells." Min Wu, Amy Swift, Rebecca Moran and David Ferrick, Seahorse Bioscience. 2006 Gordon Research Conference on Cell Death September 10-15, 2006; Big Sky MT

"Real-time Metabolic Analysis of Glioblastoma Cells Treated with 2-Deoxyglucose Reveals a Metabolic Switch to Aerobic Energy Metabolism Mediated by HIF-1a." Min Wu, Amy Swift, Rebecca Moran and David Ferrick, Seahorse Bioscience. AACR 2006 Annual Meeting April 1, 2006; Washington, DC

"A Novel Assay for Profiling Metabolic Changes Mediated by HIF-1a in Cancer Cells." Min Wu, Amy Swift, Diane Parslow, Suzanne Armistead, Kristie Lemire, David Ferrick, Seahorse Bioscience. Tumor Metabolism Summit September 19, 2005, Genoa, Italy

"A Non-destructive, Multi-analyte, Time-resolved Technology for Sensing Metabolic Changes in Cancer Cells." American Association for Cancer Research, April 19, 2005; Anaheim, CA

"A Novel Technology for Profiling Energy Metabolism in Cancer Cells" Min Wu, Amy Swift, Diane Parslow, Suzanne Armitstead, Kristie Lemire, Martin Sattler; Seahorse Bioscience, and Dana-Farber Cancer Institute. GTC BIO Conference January 27-28, 2005; San Francisco, CA

Cardiovascular

"Bioenergetics changes induced by hydrogen peroxide exposure in endothelial cells." Gloria A. Benavides, Brian P. Dranka, Brian Benoit, and Victor M. Darley-Usmar, University of Alabama at Birmingham and Seahorse Bioscience. Society for Free Radical Biology's 16th Annual Meeting. November 18 - 22, 2009, San Diego, CA

"4-Hydroxy-2-Nonenal Alters Cellular Bioenergetics in Vascular Smooth Muscle Cells." Blake R. Zelickson, University of Alabama at Birmingham. Society for Free Radical Biology's 16th Annual Meeting. November 18 - 22, 2009, San Diego, CA

"Direct measurement of bioenergetic stress in cardiomyocytes exposed to hydrogen peroxide and protection by O-GlcNAc." Brian P. Dranka, Bradford G. Hill, Luyun Zou, John C. Chatham, and Victor M. Darley-Usmar, University of Alabama at Birmingham. Society for Free Radical Biology's 15th Annual Meeting. November 16 - 26, 2008, Indianapolis, Indiana

Hepatobiology & *In Vitro* Toxicity

"In vitro detection of pharmaceutical compounds that disturb mitochondrial functions." Irene Edebert, Ingalill Rafter, Ian Cotgreave; Molecular Toxicology, Safety Assessment, AstraZeneca R&D. 46th Congress of the European Societies of Toxicology. September 13-16, 2009; Dresden, Germany

Neurodegeneration

"Real-time monitoring of mitochondrial and cellular bioenergetics in cultured neurons in a microplate." Amy L. Swift, Etienne Regulier, Younga Shin, Nagendra Yadava, David Nicholls, David A. Ferrick and Min Wu, 1Seahorse Bioscience,Novartis Pharma AG, Novartis Institutes for Biomedical Research, and The Buck Institute. Society for Neuroscience 38th Annual Meeting, November15-19, 2008 Washington, D.C.

Obesity, Diabetes, & Metabolic Diseases

"β-Adrenergic and cAMP-Stimulated Mitochondrial Uncoupling in Human Adipocytes." Einav Yehuda-Schnaidman, Naresh Kumar, Ben Buehrer, Sheila Collins, Hamner Institute. 69th Scientific Sessions of the American Diabetes Association; June 5-9. 2009; New Orleans, LA

"Metformin-Induced Inhibition of Mitochondrial Complex I Activity Stimulates Fatty Acid Oxidation and Glycolysis While Blunting Glucose Oxidation in C2C12 Myocytes." Min Wu, Amy L. Swift, Rebecca Moran and David A. Ferrick, Seahorse Bioscience. Molecular & Cellular Bioenergetics June 17, 2007 Andover, New Hampshire

"A Novel, Non-Radioactive Method for Measuring Fatty Acid Oxidation and Cellular Metabolism in C2C12 Myocytes." Mark E. Rothenberg, Tina Patel, Chris Braun, Suzanne Armitstead, Kristie Lemire, Rebecca Moran, Craig Beeson, and David A. Ferrick, Seahorse Bioscience and Medical University of South Carolina. Endocrine Society 2006 Annual Meeting June 24, 2006 Boston, MA

"Extracellular Flux as an Indicator of Cellular Metabolism." Chris Braun, Mark Rothenberg, Suzanne Armitstead, Kristie Lemire, Diane Parslow, Tina Patel, and David Ferrick, Seahorse Bioscience. NAASO Annual Meeting October 15, 2005 Vancouver, British Columbia

Technology

"Extracellular Flux Enables Real-time, Non-invasive Measurements of Cellular Metabolism." David Ferrick, Mark Rothenberg, Min Wu, Chris Braun, Seahorse Bioscience. LabAutomation 2006 January 22, 2006 Palm Springs, CA