

Current List of Peer-reviewed Publications with Seahorse Extracellular Flux (XF) Data

(as of December 2008)

2008

[O\(2\)-sensing signal cascade: clamping of O\(2\) respiration, reduced ATP utilization, and inducible fumarate respiration.](#)

Sridharan V, Guichard J, Li CY, Muise-Helmericks R, Beeson CC, Wright GL.
(2008) *Am J Physiol Cell Physiol*. Jul; 295(1):C29-37.

[Hypoxia-inducible factor induces local thyroid hormone inactivation during hypoxic-ischemic disease in rats.](#)

Simonides WS, Mulcahey MA, Redout EM, Muller A, Zuidwijk MJ, Visser TJ, Wassen FW, Crescenzi A, da-Silva WS, Harney J, Engel FB, Obregon MJ, Larsen PR, Bianco AC, Huang SA.
(2008) *J Clin Invest*. Mar;118(3):975-83.

[Specific SIRT1 Activation Mimics Low Energy Levels and Protects against Diet-Induced Metabolic Disorders by Enhancing Fat Oxidation.](#)

Jerome N. Feige, Marie Lagouge, Carles Canto, Axelle Strehle, Sander M. Houten, Jill C. Milne, Philip D. Lambert, Chikage Mataka, Peter J. Elliott, and Johan Auwerx
(2008) *Cell Metabolism* 8, 347–358, November 5.

[In vitro assessment of mitochondrial dysfunction and cytotoxicity of Nefazodone, Trazodone and Buspirone.](#) Dykens JA, Jamieson JD, Marroquin LD, Nadanaciva S, Xu JJ,

Dunn MC, Smith AR, and Will Y.
(2008) *Toxicol Sci*. Jun;103(2):335-45.

[Fission and selective fusion govern mitochondrial segregation and elimination by autophagy.](#)

Twig G, Elorza A, Molina AJA, Mohamed H, Wikstrom JD, Walzer G, Stiles L, Haigh SE, Katz S, Las G, Alroy J, Wu M, Py BF, Yuan J, Deeney JT, Corkey BE, and Shirihai OS.
(2008) *EMBO J* Jan 23;27(2):433-46.

[Advances in measuring cellular bioenergetics using extracellular flux.](#)

Ferrick DA, Neilson A, and Beeson C.
(2008) *Drug Discov Today*. Mar;13(5-6):268-74.

2007

[ERRy directs and maintains the transition to oxidative metabolism in the postnatal heart.](#)

Alaynick WA, Kondo RP, Xie W, He W, Dufour CR, Downes M, Jonker JW, Giles W, Naviaux RK, Giguere V and Evans RM.
(2007) *Cell Metab* 6:13-24 (XF24 data is in the supplement to this paper).

[Peroxisome proliferator activator receptor \$\gamma\$ coactivator-1 expression is reduced in obesity: potential pathogenic role of saturated fatty acids and p38 mitogen-activated protein kinase activation.](#)

Crunkhorn S, Dearie F, Mantzoros C, Gami H, da Silva WS, Espinoza D, Faucette R, Barry K, Bianco AC and Patti ME.
(2007) *J Biol Chem* 282:15439-15450.

[The small polyphenolic molecule kaempferol increases cellular energy expenditure and thyroid hormone activation.](#)

da-Silva WS, Harney JW, Kim BW, Li J, Bianco SD, Crescenzi A, Christoffolete MA, Huang SA and Bianco AC.
(2007) *Diabetes* 56:767-776.

[The prolyl hydroxylase oxygen-sensing pathway is cytoprotective and allows maintenance of mitochondrial membrane potential during metabolic inhibition.](#)

Sridharan V, Guichard J, Bailey RM, Kasiganesan H, Beeson C and Wright GL.
(2007) *Am J Physiol Cell Physiol* 292:C719-C728.

[Multiparameter metabolic analysis reveals a close link between attenuated mitochondrial bioenergetic function and enhanced glycolysis dependency in human tumor cells.](#)

Wu M, Neilson A, Swift AL, Moran R, Tamagnine J, Parslow D, Armistead S, Lemire K, Orrell J, Teich J, Chomicz S and Ferrick DA.
(2007) *Am J Physiol Cell Physiol* 292:C125-C136.

2006

- [Bile acids induce energy expenditure by promoting intracellular thyroid hormone activation.](#)

Watanabe M, Houten SM, Matakai C, Christoffolete MA, Kim BW, Sato H, Messaddeq N, Harney JW, Ezaki O, Kodama T, Schoonjans K, Bianco AC and Auwerx J.
(2006) *Nature* 439:484-489.