Usurping the mitochondrial supremacy: extramitochondrial sources of reactive oxygen intermediates and their role in beta cell metabolism and insulin secretion

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#	Paper	IF	Citations
22	Stimulus-induced S-nitrosylation of Syntaxin 4 impacts insulin granule exocytosis. *Journal of Biological Chemistry*, **2011**, 286, 16344-54	5.4	42
21	Plasma membrane electron transport in pancreatic Ecells is mediated in part by NQO1. *American Journal of Physiology - Endocrinology and Metabolism*, **2011**, 301, E113-21	6	19
20	NAD kinase regulates the size of the NADPH pool and insulin secretion in pancreatic Ecells. *American Journal of Physiology - Endocrinology and Metabolism*, **2012**, 303, E191-9	6	20
19	Glutathionylation state of uncoupling protein-2 and the control of glucose-stimulated insulin secretion. *Journal of Biological Chemistry*, **2012**, 287, 39673-85	5.4	52
18	Reactive oxygen and nitrogen species generation, antioxidant defenses, and Ecell function: a critical role for amino acids. *Journal of Endocrinology*, **2012**, 214, 11-20	4.7	106
17	Mitochondrial proticity and ROS signaling: lessons from the uncoupling proteins. *Trends in Endocrinology and Metabolism*, **2012**, 23, 451-8	8.8	96
16	The level of menadione redox-cycling in pancreatic Ecells is proportional to the glucose concentration: role of NADH and consequences for insulin secretion. *Toxicology and Applied Pharmacology*, **2012**, 258, 216-25	4.6	10
15	Metabolic signaling in fuel-induced insulin secretion. *Cell Metabolism*, **2013**, 18, 162-85	24.6	341
14	Molecular Events Linking Oxidative Stress and Inflammation to Insulin Resistance and ECell Dysfunction. *Oxidative Medicine and Cellular Longevity*, **2015**, 2015, 181643	6.7	191
13	Inflammation and Oxidative Stress: The Molecular Connectivity between Insulin Resistance, Obesity, and Alzheimer's Disease. *Mediators of Inflammation*, **2015**, 2015, 105828	4.3	263
12	NAD(P)H-dependent quinone oxidoreductase 1 (NQO1) and cytochrome P450 oxidoreductase (CYP450OR) differentially regulate menadione-mediated alterations in redox status, survival and metabolism in pancreatic Ecells. *Toxicology Letters*, **2016**, 262, 1-11	4.4	10
11	The significance of routine biochemical markers in patients with major depressive disorder. *Scientific Reports*, **2016**, 6, 34402	4.9	22
10	Mechanisms of Doxorubicin Toxicity in Pancreatic ECells. *Toxicological Sciences*, **2016**, 152, 395-405	4.4	16
9	The Role of Oxidative Stress and Hypoxia in Pancreatic Beta-Cell Dysfunction in Diabetes Mellitus. *Antioxidants and Redox Signaling*, **2017**, 26, 501-518	8.4	273
8	Mitochondria-Targeted Antioxidant SkQ1 Improves Dermal Wound Healing in Genetically Diabetic Mice. *Oxidative Medicine and Cellular Longevity*, **2017**, 2017, 6408278	6.7	27
7	Impaired peripheral glucose homeostasis and Alzheimer's disease. *Neuropharmacology*, **2018**, 136, 172-181	5.5	42
6	Nutrients and Oxidative Stress: Friend or Foe?. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 9719584	6.7	115

5	Oxidative stress pathways in pancreatic □cells and insulin-sensitive cells and tissues: importance to cell metabolism, function, and dysfunction. *American Journal of Physiology - Cell Physiology*, **2019**, 317, C420-C433	5.4	51
4	Insulin resistance and diabetes in hyperthyroidism: a possible role for oxygen and nitrogen reactive species. *Free Radical Research*, **2019**, 53, 248-268	4	3
3	Molecular mechanisms of lipotoxicity-induced pancreatic □cell dysfunction. *International Review of Cell and Molecular Biology*, **2021**, 359, 357-402	6	6
2	From diabetes to renal aging: the therapeutic potential of adiponectin. *Journal of Physiology and Biochemistry*, **2021**, 77, 205-214	5	0
1	Role of Reactive Oxygen Species in Glucose Metabolism Disorder in Diabetic Pancreatic □Cells. **2022**, 12, 1228		2