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Dynamic measurements of mitochondrial hydrogen peroxide concentration and glutathione redox state in rat pancreatic β -cells using ratiometric fluorescent proteins: confounding effects of pH with HyPer but not roGF

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#	Paper	IF	Citations
70	Imaging Localised Hydrogen Peroxide Production in Living Systems. <i>Current Chemical Biology</i> , 2012 , 6, 113-122	0.4	2
69	The molecular mechanisms of pancreatic β cell glucotoxicity: recent findings and future research directions. <i>Molecular and Cellular Endocrinology</i> , 2012 , 364, 1-27	4.4	193
68	Mitochondrial 'flashes' a radical concept reHined. <i>Trends in Cell Biology</i> , 2012 , 22, 503-8	18.3	70
67	Mitochondrial dysfunction in pancreatic β cells. <i>Trends in Endocrinology and Metabolism</i> , 2012 , 23, 477-87	8.8	170
66	Mitochondrial oxidative stress contributes differently to rat pancreatic islet cell apoptosis and insulin secretory defects after prolonged culture in a low non-stimulating glucose concentration. <i>Diabetologia</i> , 2012 , 55, 2226-37	10.3	25
65	Calcium-dependent physiologic and pathologic stimulus-metabolic response coupling in hepatocytes. <i>Cell Calcium</i> , 2012 , 52, 93-102	4	23
64	Mitochondrial compartmentalization of redox processes. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 2201-8	7.8	57
63	Fluorescent Imaging of Redox Species in Multicellular Organisms. 2013 , 119-155		6
62	Recent advances in reactive oxygen species measurement in biological systems. <i>Trends in Biochemical Sciences</i> , 2013 , 38, 556-65	10.3	124
61	Glutathione and γ -glutamylcysteine in hydrogen peroxide detoxification. <i>Methods in Enzymology</i> , 2013 , 527, 129-44	1.7	14
60	Inhibition of mitochondrial carnitine/acylcarnitine transporter by H ₂ O ₂ : molecular mechanism and possible implication in pathophysiology. <i>Chemico-Biological Interactions</i> , 2013 , 203, 423-9	5	17
59	Oxidative stress in acute pancreatitis: lost in translation?. <i>Free Radical Research</i> , 2013 , 47, 917-33	4	36
58	Cancer Metabolism: A Nexus of Matter, Energy, and Reactive Oxygen Species. <i>Cancer Drug Discovery and Development</i> , 2014 , 7-27	0.3	1
57	Imaging dynamic redox processes with genetically encoded probes. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 73, 43-9	5.8	54
56	Measurement of DCF fluorescence as a measure of reactive oxygen species in murine islets of Langerhans. <i>Analytical Methods</i> , 2014 , 6, 3019-3024	3.2	70
55	A novel MitoTimer reporter gene for mitochondrial content, structure, stress, and damage in vivo. <i>Journal of Biological Chemistry</i> , 2014 , 289, 12005-12015	5.4	148
54	Multiparametric optical analysis of mitochondrial redox signals during neuronal physiology and pathology in vivo. <i>Nature Medicine</i> , 2014 , 20, 555-60	50.5	120

53	Ratiometric biological nanosensors. <i>Biochemical Society Transactions</i> , 2014 , 42, 899-904	5.1	5
52	Response properties of the genetically encoded optical H ₂ O ₂ sensor HyPer. <i>Free Radical Biology and Medicine</i> , 2014 , 76, 227-41	7.8	32
51	Islet NADPH oxidase activity modulates β cell mass and endocrine function in rats with fructose-induced oxidative stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 3475-82	4	8
50	Quantifying intracellular hydrogen peroxide perturbations in terms of concentration. <i>Redox Biology</i> , 2014 , 2, 955-62	11.3	89
49	Acute nutrient regulation of the mitochondrial glutathione redox state in pancreatic β cells. <i>Biochemical Journal</i> , 2014 , 460, 411-23	3.8	28
48	Can Tea Extracts Exert a Protective Effect Against Diabetes by Reducing Oxidative Stress and Decreasing Glucotoxicity in Pancreatic β Cells?. <i>Diabetes and Metabolism Journal</i> , 2015 , 39, 27-30	5	4
47	ROS signaling and redox biology in endothelial cells. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 3281-303	303	89
46	Teaching the fundamentals of electron transfer reactions in mitochondria and the production and detection of reactive oxygen species. <i>Redox Biology</i> , 2015 , 4, 381-98	11.3	155
45	Unveiling a common mechanism of apoptosis in β cells and neurons in Friedreich's ataxia. <i>Human Molecular Genetics</i> , 2015 , 24, 2274-86	5.6	47
44	Distinct mPTP activation mechanisms in ischaemia-reperfusion: contributions of Ca ²⁺ , ROS, pH, and inorganic polyphosphate. <i>Cardiovascular Research</i> , 2015 , 106, 237-48	9.9	109
43	Omega-3 supplementation improves pancreatic islet redox status: in vivo and in vitro studies. <i>Pancreas</i> , 2015 , 44, 287-95	2.6	14
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41	Mouse redox histology using genetically encoded probes. <i>Science Signaling</i> , 2016 , 9, rs1	8.8	43
40	Real-time imaging of intracellular hydrogen peroxide in pancreatic islets. <i>Biochemical Journal</i> , 2016 , 473, 4443-4456	3.8	8
39	Modulating and Measuring Intracellular HO Using Genetically Encoded Tools to Study Its Toxicity to Human Cells. <i>ACS Synthetic Biology</i> , 2016 , 5, 1389-1395	5.7	21
38	HyPer Family Probes: State of the Art. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 731-51	8.4	89
37	Dissecting Redox Biology Using Fluorescent Protein Sensors. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 680-712	8.4	188
36	Fluorescent Probes Used for Detection of Hydrogen Peroxide under Biological Conditions. <i>Critical Reviews in Analytical Chemistry</i> , 2016 , 46, 171-200	5.2	29

35	The Role of Oxidative Stress and Hypoxia in Pancreatic Beta-Cell Dysfunction in Diabetes Mellitus. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 501-518	8.4	273
34	A novel ATP-synthase-independent mechanism coupling mitochondrial activation to exocytosis in insulin-secreting cells. <i>Journal of Cell Science</i> , 2017 , 130, 1929-1939	5.3	7
33	Ratiometric imaging of mitochondrial pH in living cells with a colorimetric fluorescent probe based on fluorescein derivative. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 58-68	8.5	34
32	RyR2-Mediated Ca Release and Mitochondrial ROS Generation Partake in the Synaptic Dysfunction Caused by Amyloid β Peptide Oligomers. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 115	6.1	27
31	Fluorescent in vivo imaging of reactive oxygen species and redox potential in plants. <i>Free Radical Biology and Medicine</i> , 2018 , 122, 202-220	7.8	25
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29	Biomarkers of tumour redox status in response to modulations of glutathione and thioredoxin antioxidant pathways. <i>Free Radical Research</i> , 2018 , 52, 256-266	4	8
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27	A naphthalene-based fluorescent probe with a large Stokes shift for mitochondrial pH imaging. <i>Analyst, The</i> , 2018 , 143, 5054-5060	5	21
26	Glucose Acutely Reduces Cytosolic and Mitochondrial HO in Rat Pancreatic Beta Cells. <i>Antioxidants and Redox Signaling</i> , 2019 , 30, 297-313	8.4	10
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24	Nano-Sampling and Reporter Tools to Study Metabolic Regulation in Zebrafish. <i>Frontiers in Cell and Developmental Biology</i> , 2019 , 7, 15	5.7	5
23	Contributions of Mitochondrial Dysfunction to β Cell Failure in Diabetes Mellitus. 2019 , 217-243		2
22	Strategies to detect mitochondrial oxidants. <i>Redox Biology</i> , 2019 , 21, 101065	11.3	32
21	Contribution of Oxidative Stress and Impaired Biogenesis of Pancreatic β Cells to Type 2 Diabetes. <i>Antioxidants and Redox Signaling</i> , 2019 , 31, 722-751	8.4	30
20	The fluorescent protein sensor roGFP2-Orp1 monitors in vivo H ₂ O ₂ and thiol redox integration and elucidates intracellular H ₂ O ₂ dynamics during elicitor-induced oxidative burst in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2019 , 221, 1649-1664	9.8	69
19	Redox Signaling from and to Peroxisomes: Progress, Challenges, and Prospects. <i>Antioxidants and Redox Signaling</i> , 2019 , 30, 95-112	8.4	33
18	Conditional MitoTimer reporter mice for assessment of mitochondrial structure, oxidative stress, and mitophagy. <i>Mitochondrion</i> , 2019 , 44, 20-26	4.9	33

17	Nutrient Metabolism, Subcellular Redox State, and Oxidative Stress in Pancreatic Islets and β Cells. <i>Journal of Molecular Biology</i> , 2020 , 432, 1461-1493	6.5	29
16	Metabolic interaction of hydrogen peroxide and hypoxia in zebrafish fibroblasts. <i>Free Radical Biology and Medicine</i> , 2020 , 152, 469-481	7.8	2
15	A benzothiazolium-based fluorescent probe with ideal pK for mitochondrial pH imaging and cancer cell differentiation. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10586-10592	7.3	3
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9	Non-canonical mitochondrial STAT3 signaling mediates exercise-induced insulin secretion down-regulation.		
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7	Blocking mitochondrial calcium release in Schwann cells prevents demyelinating neuropathies. <i>Journal of Clinical Investigation</i> , 2016 , 126, 1023-38	15.9	12
6	Protective antioxidant and antiapoptotic effects of ZnCl ₂ in rat pancreatic islets cultured in low and high glucose concentrations. <i>PLoS ONE</i> , 2012 , 7, e46831	3.7	33
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4	Measurement of Reactive Oxygen Species in Cardiovascular Disease. 359-370		
3	Schwann cell demyelination is triggered by a transient mitochondrial calcium release through Voltage Dependent Anion Channel 1.		
2	Traumatic and Diabetic Schwann Cell Demyelination Is Triggered by a Transient Mitochondrial Calcium Release through Voltage Dependent Anion Channel 1. <i>Biomedicine</i> , 2022 , 10, 1447	4.8	0
1	Deregulation of Mitochondrial Calcium Handling Due to Presenilin Loss Disrupts Redox Homeostasis and Promotes Neuronal Dysfunction. 2022 , 11, 1642		