

# Ian R Sweet

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,924  
citations

186265

28  
h-index

214800

47  
g-index

57  
all docs

57  
docs citations

57  
times ranked

4618  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoregulatory and metabolic defects in Huntington's disease transgenic mice implicate PGC-1 $\beta$ in Huntington's disease neurodegeneration. <i>Cell Metabolism</i> , 2006, 4, 349-362.	16.2	519
2	Biochemical adaptations of the retina and retinal pigment epithelium support a metabolic ecosystem in the vertebrate eye. <i>ELife</i> , 2017, 6, .	6.0	254
3	NADPH Oxidase-derived Reactive Oxygen Species Increases Expression of Monocyte Chemotactic Factor Genes in Cultured Adipocytes. <i>Journal of Biological Chemistry</i> , 2012, 287, 10379-10393.	3.4	152
4	Effect of the two-layer (University of Wisconsin solution???perfluorochemical plus O <sub>2</sub> ) method of pancreas preservation on human islet isolation, as assessed by the Edmonton Isolation Protocol1. <i>Transplantation</i> , 2002, 74, 1414-1419.	1.0	130
5	The Fractalkine/CX3CR1 System Regulates $\beta$ 2 Cell Function and Insulin Secretion. <i>Cell</i> , 2013, 153, 413-425.	28.9	121
6	Neural Stem Cells in the Adult Subventricular Zone Oxidize Fatty Acids to Produce Energy and Support Neurogenic Activity. <i>Stem Cells</i> , 2015, 33, 2306-2319.	3.2	111
7	Systematic screening of potential $\beta$ 2-cell imaging agents. <i>Biochemical and Biophysical Research Communications</i> , 2004, 314, 976-983.	2.1	95
8	Continuous Measurement of Oxygen Consumption by Pancreatic Islets. <i>Diabetes Technology and Therapeutics</i> , 2002, 4, 661-672.	4.4	92
9	Development and characterization of a novel rat model of type 2 diabetes mellitus: the UC Davis type 2 diabetes mellitus UCD-T2DM rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R1782-R1793.	1.8	88
10	Regulation of ATP/ADP in Pancreatic Islets. <i>Diabetes</i> , 2004, 53, 401-409.	0.6	87
11	Phototransduction Influences Metabolic Flux and Nucleotide Metabolism in Mouse Retina. <i>Journal of Biological Chemistry</i> , 2016, 291, 4698-4710.	3.4	87
12	M2 Macrophage Polarization Mediates Anti-inflammatory Effects of Endothelial Nitric Oxide Signaling. <i>Diabetes</i> , 2015, 64, 2836-2846.	0.6	80
13	Roles of Glucose in Photoreceptor Survival. <i>Journal of Biological Chemistry</i> , 2011, 286, 34700-34711.	3.4	77
14	TRPM7 regulates quiescent/proliferative metabolic transitions in lymphocytes. <i>Cell Cycle</i> , 2010, 9, 3565-3574.	2.6	73
15	Inhibition of Mitochondrial Pyruvate Transport by Zaprinas Causes Massive Accumulation of Aspartate at the Expense of Glutamate in the Retina. <i>Journal of Biological Chemistry</i> , 2013, 288, 36129-36140.	3.4	72
16	Insulin secretion in the conscious mouse is biphasic and pulsatile. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E523-E529.	3.5	67
17	Aging Neural Progenitor Cells Have Decreased Mitochondrial Content and Lower Oxidative Metabolism. <i>Journal of Biological Chemistry</i> , 2011, 286, 38592-38601.	3.4	65
18	Succinate Can Shuttle Reducing Power from the Hypoxic Retina to the O <sub>2</sub> -Rich Pigment Epithelium. <i>Cell Reports</i> , 2020, 31, 107606.	6.4	62

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19	Non-Invasive Imaging of Beta Cell Mass: A Quantitative Analysis. <i>Diabetes Technology and Therapeutics</i> , 2004, 6, 652-659.	4.4	57
20	Dynamic Perifusion to Maintain and Assess Isolated Pancreatic Islets. <i>Diabetes Technology and Therapeutics</i> , 2002, 4, 67-76.	4.4	51
21	Contribution of Calcium Influx in Mediating Glucose-Stimulated Oxygen Consumption in Pancreatic Islets. <i>Diabetes</i> , 2006, 55, 3509-3519.	0.6	47
22	Mitochondrial GTP Links Nutrient Sensing to $\hat{I}^2$ Cell Health, Mitochondrial Morphology, and Insulin Secretion Independent of OxPhos. <i>Cell Reports</i> , 2019, 28, 759-772.e10.	6.4	44
23	Glucose Stimulation of Cytochrome C Reduction and Oxygen Consumption as Assessment of Human Islet Quality. <i>Transplantation</i> , 2005, 80, 1003-1011.	1.0	43
24	Cre recombinase-dependent expression of a constitutively active mutant allele of the catalytic subunit of protein kinase A. <i>Genesis</i> , 2005, 43, 109-119.	1.6	40
25	Role of vesicular monoamine transporter type 2 in rodent insulin secretion and glucose metabolism revealed by its specific antagonist tetrabenazine. <i>Journal of Endocrinology</i> , 2008, 198, 41-49.	2.6	39
26	A highly energetic process couples calcium influx through L-type calcium channels to insulin secretion in pancreatic $\hat{I}^2$ -cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E717-E727.	3.5	39
27	NNT reverse mode of operation mediates glucose control of mitochondrial NADPH and glutathione redox state in mouse pancreatic $\hat{I}^2$ -cells. <i>Molecular Metabolism</i> , 2017, 6, 535-547.	6.5	35
28	Treatment of diabetic rats with encapsulated islets. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 2644-2650.	3.6	31
29	Islet Oxygen Consumption and Insulin Secretion Tightly Coupled to Calcium Derived from L-type Calcium Channels but Not from the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2008, 283, 24334-24342.	3.4	30
30	Transcellular Neuroligin-2 Interactions Enhance Insulin Secretion and Are Integral to Pancreatic $\hat{I}^2$ Cell Function. <i>Journal of Biological Chemistry</i> , 2012, 287, 19816-19826.	3.4	25
31	Reduced Cytochrome c Is an Essential Regulator of Sustained Insulin Secretion by Pancreatic Islets. <i>Journal of Biological Chemistry</i> , 2011, 286, 17422-17434.	3.4	22
32	Microencapsulated 3-Dimensional Sensor for the Measurement of Oxygen in Single Isolated Pancreatic Islets. <i>PLoS ONE</i> , 2012, 7, e33070.	2.5	22
33	Design and Evaluation of Peptide Dual-Agonists of GLP-1 and NPY2 Receptors for Glucoregulation and Weight Loss with Mitigated Nausea and Emesis. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 1127-1138.	6.4	21
34	Control of Insulin Secretion by Cytochrome c and Calcium Signaling in Islets with Impaired Metabolism. <i>Journal of Biological Chemistry</i> , 2014, 289, 19110-19119.	3.4	18
35	Quantification of Low-Level Drug Effects Using Real-Time, <i>in vitro</i> Measurement of Oxygen Consumption Rate. <i>Toxicological Sciences</i> , 2015, 148, 594-602.	3.1	17
36	Real-time imaging of intracellular hydrogen peroxide in pancreatic islets. <i>Biochemical Journal</i> , 2016, 473, 4443-4456.	3.7	14

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37	Succinate metabolism in the retinal pigment epithelium uncouples respiration from ATP synthesis. <i>Cell Reports</i> , 2022, 39, 110917.	6.4	14
38	HIF1 $\alpha$ stabilization in hypoxia is not oxidant-initiated. <i>ELife</i> , 2021, 10, .	6.0	13
39	Inhibition of HIV by Legalon-SIL is independent of its effect on cellular metabolism. <i>Virology</i> , 2014, 449, 96-103.	2.4	11
40	A Kinetic Analysis of Hepatocyte Responses to a Glucagon Pulse: Mechanism and Metabolic Consequences of Differences in Response Decay Times*. <i>Endocrinology</i> , 1987, 121, 732-737.	2.8	10
41	BaroFuse, a novel pressure-driven, adjustable-throughput perfusion system for tissue maintenance and assessment. <i>Heliyon</i> , 2016, 2, e00210.	3.2	10
42	Palmitate is not an effective fuel for pancreatic islets and amplifies insulin secretion independent of calcium release from endoplasmic reticulum. <i>Islets</i> , 2019, 11, 51-64.	1.8	10
43	Fluidics system for resolving concentration-dependent effects of dissolved gases on tissue metabolism. <i>ELife</i> , 2021, 10, .	6.0	8
44	A method for high-throughput functional imaging of single cells within heterogeneous cell preparations. <i>Scientific Reports</i> , 2016, 6, 39319.	3.3	6
45	An Analysis of Metabolic Changes in the Retina and Retinal Pigment Epithelium of Aging Mice. , 2021, 62, 20.		5
46	Tumor-like features of gene expression and metabolic profiles in enlarged pancreatic islets are associated with impaired incretin-induced insulin secretion in obese diabetes: A study of Zucker fatty diabetes mellitus rat. <i>Journal of Diabetes Investigation</i> , 2020, 11, 1434-1447.	2.4	3
47	Synthesis, Optimization, and Biological Evaluation of Corrinated Conjugates of the GLP-1R Agonist Exendin-4. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3479-3492.	6.4	2
48	Autoantibodies directed against glutamate decarboxylase interfere with glucose-stimulated insulin secretion in dispersed rat islets. <i>International Journal of Experimental Pathology</i> , 2022, , .	1.3	1