

# Jonathan V Rocheleau

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,828  
citations

394421

19  
h-index

414414

32  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laminin matrix regulates beta-cell FGFR5 expression to enhance glucose-stimulated metabolism. <i>Scientific Reports</i> , 2022, 12, 6110.	3.3	2
2	Leveraging multimodal microscopy to optimize deep learning models for cell segmentation. <i>APL Bioengineering</i> , 2021, 5, 016101.	6.2	9
3	Distinct roles of LVRAG and EGFR signaling in skeletal muscle homeostasis. <i>Molecular Metabolism</i> , 2021, 47, 101185.	6.5	6
4	Mitochondrial Efflux of Citrate and Isocitrate Is Fully Dispensable for Glucose-Stimulated Insulin Secretion and Pancreatic Islet $\beta$ -Cell Function. <i>Diabetes</i> , 2021, 70, 1717-1728.	0.6	10
5	Pancreatic $\beta$ cell-selective zinc transporter 8 insufficiency accelerates diabetes associated with islet amyloidosis. <i>JCI Insight</i> , 2021, 6, .	5.0	12
6	Flow Rate Affects Nanoparticle Uptake into Endothelial Cells. <i>Advanced Materials</i> , 2020, 32, e1906274.	21.0	69
7	Hypoxia induction in cultured pancreatic islets enhances endothelial cell morphology and survival while maintaining beta-cell function. <i>PLoS ONE</i> , 2019, 14, e0222424.	2.5	10
8	GABA promotes $\beta$ cell proliferation, but does not overcome impaired glucose homeostasis associated with diet-induced obesity. <i>FASEB Journal</i> , 2019, 33, 3968-3984.	0.5	40
9	Title is missing!. , 2019, 14, e0222424.		0
10	Title is missing!. , 2019, 14, e0222424.		0
11	Title is missing!. , 2019, 14, e0222424.		0
12	Title is missing!. , 2019, 14, e0222424.		0
13	Fibroblast growth factor receptor 5 (FGFR5) is a co-receptor for FGFR1 that is up-regulated in beta-cells by cytokine-induced inflammation. <i>Journal of Biological Chemistry</i> , 2018, 293, 17218-17228.	3.4	32
14	Dynamin-Related Protein 1-Dependent Mitochondrial Fission Changes in the Dorsal Vagal Complex Regulate Insulin Action. <i>Cell Reports</i> , 2017, 18, 2301-2309.	6.4	47
15	Highly efficient adenoviral transduction of pancreatic islets using a microfluidic device. <i>Lab on A Chip</i> , 2016, 16, 2921-2934.	6.0	16
16	Clarifying intact 3D tissues on a microfluidic chip for high-throughput structural analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14915-14920.	7.1	62
17	Single-Molecule Analysis of the Supramolecular Organization of the M <sub>2</sub> Muscarinic Receptor and the G $\beta$ 1 Protein. <i>Journal of the American Chemical Society</i> , 2016, 138, 11583-11598.	13.7	26
18	Tailoring nanoparticle designs to target cancer based on tumor pathophysiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1142-51.	7.1	228

#	ARTICLE	IF	CITATIONS
19	Apollo-NADP+: a spectrally tunable family of genetically encoded sensors for NADP+. <i>Nature Methods</i> , 2016, 13, 352-358.	19.0	101
20	Jagn1 Is Induced in Response to ER Stress and Regulates Proinsulin Biosynthesis. <i>PLoS ONE</i> , 2016, 11, e0149177.	2.5	10
21	Allosteric modulation in monomers and oligomers of a G protein-coupled receptor. <i>ELife</i> , 2016, 5, .	6.0	21
22	Increased pressure alters plasma membrane dynamics and renders acute myeloid leukemia cells resistant to daunorubicin. <i>Haematologica</i> , 2015, 100, e406-e408.	3.5	7
23	Tumour-on-a-chip provides an optical window into nanoparticle tissue transport. <i>Nature Communications</i> , 2013, 4, 2718.	12.8	264
24	A microfluidic device designed to induce media flow throughout pancreatic islets while limiting shear-induced damage. <i>Lab on A Chip</i> , 2013, 13, 4374.	6.0	65
25	Fibroblast Growth Factor Receptor Like-1 (FGFRL1) Interacts with SHP-1 Phosphatase at Insulin Secretory Granules and Induces Beta-cell ERK1/2 Protein Activation. <i>Journal of Biological Chemistry</i> , 2013, 288, 17859-17870.	3.4	42
26	Autofluorescence Imaging of Living Pancreatic Islets Reveals Fibroblast Growth Factor-21 (FGF21)-Induced Metabolism. <i>Biophysical Journal</i> , 2012, 103, 2379-2388.	0.5	26
27	Quantitative imaging of electron transfer flavoprotein autofluorescence reveals the dynamics of lipid partitioning in living pancreatic islets. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 838.	1.3	19
28	Dynamics and Distribution of Klotho <sup>Î2</sup> (KLB) and Fibroblast Growth Factor Receptor-1 (FGFR1) in Living Cells Reveal the Fibroblast Growth Factor-21 (FGF21)-induced Receptor Complex. <i>Journal of Biological Chemistry</i> , 2012, 287, 19997-20006.	3.4	40
29	Culturing Pancreatic Islets in Microfluidic Flow Enhances Morphology of the Associated Endothelial Cells. <i>PLoS ONE</i> , 2011, 6, e24904.	2.5	69
30	Chapter 4 Combining Microfluidics and Quantitative Fluorescence Microscopy to Examine Pancreatic Islet Molecular Physiology. <i>Methods in Cell Biology</i> , 2008, 89, 71-92.	1.1	13
31	Fibroblast Growth Factor Receptor-1 Signaling in Pancreatic Islet <sup>Î2</sup> -Cells Is Modulated by the Extracellular Matrix. <i>Molecular Endocrinology</i> , 2008, 22, 196-205.	3.7	49
32	Critical Role of Gap Junction Coupled KATP Channel Activity for Regulated Insulin Secretion. <i>PLoS Biology</i> , 2006, 4, e26.	5.6	117
33	Microfluidic glucose stimulation reveals limited coordination of intracellular Ca <sup>2+</sup> activity oscillations in pancreatic islets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12899-12903.	7.1	103
34	Quantitative NAD(P)H/Flavoprotein Autofluorescence Imaging Reveals Metabolic Mechanisms of Pancreatic Islet Pyruvate Response. <i>Journal of Biological Chemistry</i> , 2004, 279, 31780-31787.	3.4	170
35	Intrasequence GFP in Class I MHC Molecules, a Rigid Probe for Fluorescence Anisotropy Measurements of the Membrane Environment. <i>Biophysical Journal</i> , 2003, 84, 4078-4086.	0.5	83
36	Pancreatic Islet <sup>Î2</sup> -Cells Transiently Metabolize Pyruvate. <i>Journal of Biological Chemistry</i> , 2002, 277, 30914-30920.	3.4	51