Jonathan V Rocheleau

List of Publications by Year
in descending order

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	Tumour-on-a-chip provides an optical window into nanoparticle tissue transport. Nature Communications, 2013, 4, 2718.	12.8	264
2	Tailoring nanoparticle designs to target cancer based on tumor pathophysiology. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1142-51.	7.1	228
3	Quantitative NAD(P)H/Flavoprotein Autofluorescence Imaging Reveals Metabolic Mechanisms of Pancreatic Islet Pyruvate Response. Journal of Biological Chemistry, 2004, 279, 31780-31787.	3.4	170
4	Critical Role of Gap Junction Coupled KATP Channel Activity for Regulated Insulin Secretion. PLoS Biology, 2006, 4, e26.	5.6	117
5	Microfluidic glucose stimulation reveals limited coordination of intracellular Ca2+ activity oscillations in pancreatic islets. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12899-12903.	7.1	103
6	Apollo-NADP+: a spectrally tunable family of genetically encoded sensors for NADP+. Nature Methods, 2016, 13, 352-358.	19.0	101
7	Intrasequence GFP in Class I MHC Molecules, a Rigid Probe for Fluorescence Anisotropy Measurements of the Membrane Environment. Biophysical Journal, 2003, 84, 4078-4086.	0.5	83
8	Flow Rate Affects Nanoparticle Uptake into Endothelial Cells. Advanced Materials, 2020, 32, e1906274.	21.0	69
9	Culturing Pancreatic Islets in Microfluidic Flow Enhances Morphology of the Associated Endothelial Cells. PLoS ONE, 2011, 6, e24904.	2.5	69
10	A microfluidic device designed to induce media flow throughout pancreatic islets while limiting shear-induced damage. Lab on A Chip, 2013, 13, 4374.	6.0	65
11	Clarifying intact 3D tissues on a microfluidic chip for high-throughput structural analysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14915-14920.	7.1	62
12	Pancreatic Islet Î²-Cells Transiently Metabolize Pyruvate. Journal of Biological Chemistry, 2002, 277, 30914-30920.	3.4	51
13	Fibroblast Growth Factor Receptor-1 Signaling in Pancreatic Islet Î²-Cells Is Modulated by the Extracellular Matrix. Molecular Endocrinology, 2008, 22, 196-205.	3.7	49
14	Dynamin-Related Protein 1-Dependent Mitochondrial Fission Changes in the Dorsal Vagal Complex Regulate Insulin Action. Cell Reports, 2017, 18, 2301-2309.	6.4	47
15	Fibroblast Growth Factor Receptor Like-1 (FGFRL1) Interacts with SHP-1 Phosphatase at Insulin Secretory Granules and Induces Beta-cell ERK1/2 Protein Activation. Journal of Biological Chemistry, 2013, 288, 17859-17870.	3.4	42
16	Dynamics and Distribution of KlothoÎ² (KLB) and Fibroblast Growth Factor Receptor-1 (FGFR1) in Living Cells Reveal the Fibroblast Growth Factor-21 (FGF21)-induced Receptor Complex. Journal of Biological Chemistry, 2012, 287, 19997-20006.	3.4	40
17	GABA promotes Î²â€cell proliferation, but does not overcome impaired glucose homeostasis associated with dietâ€induced obesity. FASEB Journal, 2019, 33, 3968-3984.	0.5	40
18	Fibroblast growth factor receptor 5 (FGFR5) is a co-receptor for FGFR1 that is up-regulated in beta-cells by cytokine-induced inflammation. Journal of Biological Chemistry, 2018, 293, 17218-17228.	3.4	32

#	Article	IF	Citations
19	Autofluorescence Imaging of Living Pancreatic Islets Reveals Fibroblast Growth Factor-21 (FGF21)-Induced Metabolism. Biophysical Journal, 2012, 103, 2379-2388.	0.5	26
20	Single-Molecule Analysis of the Supramolecular Organization of the M₂ Muscarinic Receptor and the Gî±_{i1} Protein. Journal of the American Chemical Society, 2016, 138, 11583-11598.	13.7	26
21	Allosteric modulation in monomers and oligomers of a G protein-coupled receptor. ELife, 2016, 5, .	6.0	21
22	Quantitative imaging of electron transfer flavoprotein autofluorescence reveals the dynamics of lipid partitioning in living pancreatic islets. Integrative Biology (United Kingdom), 2012, 4, 838.	1.3	19
23	Highly efficient adenoviral transduction of pancreatic islets using a microfluidic device. Lab on A Chip, 2016, 16, 2921-2934.	6.0	16
24	Chapter 4 Combining Microfluidics and Quantitative Fluorescence Microscopy to Examine Pancreatic Islet Molecular Physiology. Methods in Cell Biology, 2008, 89, 71-92.	1.1	13
25	Pancreatic Î² cellâ€“selective zinc transporter 8 insufficiency accelerates diabetes associated with islet amyloidosis. JCI Insight, 2021, 6, .	5.0	12
26	Hypoxia induction in cultured pancreatic islets enhances endothelial cell morphology and survival while maintaining beta-cell function. PLoS ONE, 2019, 14, e0222424.	2.5	10
27	Mitochondrial Efflux of Citrate and Isocitrate Is Fully Dispensable for Glucose-Stimulated Insulin Secretion and Pancreatic Islet Î²-Cell Function. Diabetes, 2021, 70, 1717-1728.	0.6	10
28	Jagn1 Is Induced in Response to ER Stress and Regulates Proinsulin Biosynthesis. PLoS ONE, 2016, 11, e0149177.	2.5	10
29	Leveraging multimodal microscopy to optimize deep learning models for cell segmentation. APL Bioengineering, 2021, 5, 016101.	6.2	9
30	Increased pressure alters plasma membrane dynamics and renders acute myeloid leukemia cells resistant to daunorubicin. Haematologica, 2015, 100, e406-e408.	3.5	7
31	Distinct roles of UVRAG and EGFR signaling in skeletal muscle homeostasis. Molecular Metabolism, 2021, 47, 101185.	6.5	6
32	Laminin matrix regulates beta-cell FGFR5 expression to enhance glucose-stimulated metabolism. Scientific Reports, 2022, 12, 6110.	3.3	2
33	Title is missing!. , 2019, 14, e0222424.		0
34	Title is missing!. , 2019, 14, e0222424.		0
35	Title is missing!. , 2019, 14, e0222424.		0
36	Title is missing!. , 2019, 14, e0222424.		0