

Lawrence D Gaspers

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

3,871
citations

279798

23
h-index

361022

35
g-index

41
all docs

41
docs citations

41
times ranked

3680
citing authors

#	ARTICLE	IF	CITATIONS
1	Decoding of cytosolic calcium oscillations in the mitochondria. <i>Cell</i> , 1995, 82, 415-424.	28.9	1,100
2	Integrating cytosolic calcium signals into mitochondrial metabolic responses. <i>EMBO Journal</i> , 1998, 17, 4987-5000.	7.8	351
3	Amino Acids Activate mTOR Complex 1 via Ca ²⁺ /CaM Signaling to hVps34. <i>Cell Metabolism</i> , 2008, 7, 456-465.	16.2	327
4	Physiological and Molecular Characteristics of Rat Hypothalamic Ventromedial Nucleus Glucosensing Neurons. <i>Diabetes</i> , 2004, 53, 549-559.	0.6	289
5	Glucokinase Is the Likely Mediator of Glucosensing in Both Glucose-Excited and Glucose-Inhibited Central Neurons. <i>Diabetes</i> , 2002, 51, 2056-2065.	0.6	287
6	Coordination of Ca ²⁺ Signaling by Intercellular Propagation of Ca ²⁺ Waves in the Intact Liver. <i>Journal of Biological Chemistry</i> , 1995, 270, 8102-8107.	3.4	223
7	Glucokinase Is a Critical Regulator of Ventromedial Hypothalamic Neuronal Glucosensing. <i>Diabetes</i> , 2006, 55, 412-420.	0.6	176
8	Models of IP ₃ and Ca ²⁺ Oscillations: Frequency Encoding and Identification of Underlying Feedbacks. <i>Biophysical Journal</i> , 2006, 90, 3120-3133.	0.5	143
9	Coupling between cytosolic and mitochondrial calcium oscillations: role in the regulation of hepatic metabolism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998, 1366, 17-32.	1.0	107
10	Calcium signaling in liver. <i>Cell Calcium</i> , 2005, 38, 329-342.	2.4	101
11	Calcium-dependent regulation of glucose homeostasis in the liver. <i>Cell Calcium</i> , 2014, 55, 306-316.	2.4	82
12	Uncoupling Protein-2 Modulates Myocardial Excitation-Contraction Coupling. <i>Circulation Research</i> , 2010, 106, 730-738.	4.5	58
13	Coordination of calcium signalling by endothelial-derived nitric oxide in the intact liver. <i>Nature Cell Biology</i> , 1999, 1, 467-471.	10.3	56
14	Cyclosporin A Inhibits Inositol 1,4,5-Trisphosphate-dependent Ca ²⁺ Signals by Enhancing Ca ²⁺ Uptake into the Endoplasmic Reticulum and Mitochondria. <i>Journal of Biological Chemistry</i> , 2001, 276, 23329-23340.	3.4	54
15	Mitochondrial morphology and dynamics in hepatocytes from normal and ethanol-fed rats. <i>Pflugers Archiv European Journal of Physiology</i> , 2012, 464, 101-109.	2.8	53
16	Influence of calcium and iron on cell death and mitochondrial function in oxidatively stressed astrocytes. <i>Journal of Neuroscience Research</i> , 1999, 55, 674-686.	2.9	52
17	Trauma-Hemorrhagic Shock Mesenteric Lymph Induces Endothelial Apoptosis That Involves Both Caspase-Dependent and Caspase-Independent Mechanisms. <i>Annals of Surgery</i> , 2004, 240, 123-131.	4.2	49
18	Hormone-Induced Calcium Oscillations Depend on Cross-Coupling with Inositol 1,4,5-Trisphosphate Oscillations. <i>Cell Reports</i> , 2014, 9, 1209-1218.	6.4	47

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19	Ryanodine Receptors in Liver. <i>Journal of Biological Chemistry</i> , 2006, 281, 34086-34095.	3.4	40
20	Calcium-dependent activation of mitochondrial metabolism in mammalian cells. <i>Methods</i> , 2008, 46, 224-232.	3.8	40
21	Chronic alcohol feeding potentiates hormone-induced calcium signalling in hepatocytes. <i>Journal of Physiology</i> , 2017, 595, 3143-3164.	2.9	29
22	Differential Regulation of Multiple Steps in Inositol 1,4,5-Trisphosphate Signaling by Protein Kinase C Shapes Hormone-stimulated Ca ²⁺ Oscillations. <i>Journal of Biological Chemistry</i> , 2015, 290, 18519-18533.	3.4	28
23	Calcium-dependent physiologic and pathologic stimulus-metabolic response coupling in hepatocytes. <i>Cell Calcium</i> , 2012, 52, 93-102.	2.4	26
24	Intercellular calcium waves integrate hormonal control of glucose output in the intact liver. <i>Journal of Physiology</i> , 2019, 597, 2867-2885.	2.9	24
25	Inhibition of the Mitochondrial Permeability Transition by Aldehydes. <i>Biochemical and Biophysical Research Communications</i> , 2002, 291, 215-219.	2.1	19
26	Spatial organization of oscillating calcium signals in liver. <i>Biochemical Society Transactions</i> , 1995, 23, 642-648.	3.4	17
27	Continuous measurement of mitochondrial pH gradients in isolated hepatocytes by difference ratio spectroscopy. <i>Archives of Biochemistry and Biophysics</i> , 1991, 288, 250-260.	3.0	16
28	Influence of nitric oxide on cellular and mitochondrial integrity in oxidatively stressed astrocytes. , 1999, 56, 166-176.		14
29	Purkinje cell dysfunction and delayed death in plasma membrane calcium ATPase 2-heterozygous mice. <i>Molecular and Cellular Neurosciences</i> , 2012, 51, 22-31.	2.2	12
30	The effect of chronic alcohol consumption on mitochondrial calcium handling in hepatocytes. <i>Biochemical Journal</i> , 2016, 473, 3903-3921.	3.7	11
31	<scp>L</scp>-Lysine uptake in giant vesicles from cardiac ventricular sarcolemma: two components of cationic amino acid transport. <i>Bioscience Reports</i> , 2009, 29, 271-281.	2.4	9
32	Inducible Nitric-oxide Synthase Attenuates Vasopressin-dependent Ca ²⁺ Signaling in Rat Hepatocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 33776-33782.	3.4	8
33	Ethanol Disrupts Hormone-Induced Calcium Signaling in Liver. <i>Function</i> , 2021, 2, zqab002.	2.3	8
34	Subcellular Organization of Calcium Signalling in Hepatocytes and the Intact Liver. <i>Novartis Foundation Symposium</i> , 1995, 188, 18-49.	1.1	8
35	Receptor-specific Ca ²⁺ oscillation patterns mediated by differential regulation of P2Y purinergic receptors in rat hepatocytes. <i>IScience</i> , 2021, 24, 103139.	4.1	2
36	Homeostasis of Mitochondrial Calcium in Alcoholic Liver Diseases. <i>Biophysical Journal</i> , 2011, 100, 460a.	0.5	0

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37	Measuring Single Cell and Subcellular Ca ²⁺ Signals. , 2005, , 387-416.		0
38	Cellular calcium oscillations: From bifurcation analysis to experiment. World Scientific Lecture Notes in Complex Systems, 2007, , 115-134.	0.1	0
39	Fructose-induced increases in hepatic palmitate perturbs cell Ca ²⁺ and UPR signaling. FASEB Journal, 2011, 25, 1116.4.	0.5	0