Magalie A Ravier

List of Publications by Year
in descending order

49 papers	3,621 citations	159585 30 h-index	233421 45 g-index
52 all docs	52 docs citations	52 times ranked	5879 citing authors

#	Article	IF	Citations
1	Loss of Connexin36 Channels Alters Î²-Cell Coupling, Islet Synchronization of Glucose-Induced Ca2+ and Insulin Oscillations, and Basal Insulin Release. Diabetes, 2005, 54, 1798-1807.	0.6	328
2	MicroRNA-124a Regulates Foxa2 Expression and Intracellular Signaling in Pancreatic Î²-Cell Lines. Journal of Biological Chemistry, 2007, 282, 19575-19588.	3.4	318
3	Insulin crystallization depends on zinc transporter ZnT8 expression, but is not required for normal glucose homeostasis in mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14872-14877.	7.1	294
4	Glucose or Insulin, but not Zinc Ions, Inhibit Glucagon Secretion From Mouse Pancreatic Â-Cells. Diabetes, 2005, 54, 1789-1797.	0.6	247
5	Signals and Pools Underlying Biphasic Insulin Secretion. Diabetes, 2002, 51, S60-S67.	0.6	161
6	Calcium signaling in pancreatic Î²-cells in health and in Type 2 diabetes. Cell Calcium, 2014, 56, 340-361.	2.4	158
7	Hierarchy of the Î²-cell signals controlling insulin secretion. European Journal of Clinical Investigation, 2003, 33, 742-750.	3.4	151
8	Control Mechanisms of the Oscillations of Insulin Secretion In Vitro and In Vivo. Diabetes, 2002, 51, S144-S151.	0.6	147
9	The Mitochondrial Ca2+ Uniporter MCU Is Essential for Glucose-Induced ATP Increases in Pancreatic Î²-Cells. PLoS ONE, 2012, 7, e39722.	2.5	146
10	The Elevation of Glutamate Content and the Amplification of Insulin Secretion in Glucose-stimulated Pancreatic Islets Are Not Causally Related. Journal of Biological Chemistry, 2002, 277, 32883-32891.	3.4	104
11	Glucose-induced mixed [Ca²⁺]_coscillations in mouse Î²-cells are controlled by the membrane potential and the SERCA3 Ca²⁺-ATPase of the endoplasmic reticulum. American Journal of Physiology - Cell Physiology, 2006, 290, C1503-C1511.	4.6	102
12	Ca2+ microdomains and the control of insulin secretion. Cell Calcium, 2006, 40, 539-551.	2.4	100
13	Quercetin induces insulin secretion by direct activation of Lâ€type calcium channels in pancreatic beta cells. British Journal of Pharmacology, 2013, 169, 1102-1113.	5.4	92
14	Mechanisms of Control of the Free Ca2+ Concentration in the Endoplasmic Reticulum of Mouse Pancreatic Î²-Cells. Diabetes, 2011, 60, 2533-2545.	0.6	85
15	Tolbutamide Controls Glucagon Release From Mouse Islets Differently Than Glucose. Diabetes, 2013, 62, 1612-1622.	0.6	78
16	Shortcomings of current models of glucoseâ€induced insulin secretion. Diabetes, Obesity and Metabolism, 2009, 11, 168-179.	4.4	74
17	Frequency-dependent mitochondrial Ca2+ accumulation regulates ATP synthesis in pancreatic Î² cells. Pflugers Archiv European Journal of Physiology, 2013, 465, 543-554.	2.8	73
18	Glucose Controls Cytosolic Ca2+ and Insulin Secretion in Mouse Islets Lacking Adenosine Triphosphate-Sensitive K+ Channels Owing to a Knockout of the Pore-Forming Subunit Kir6.2. Endocrinology, 2009, 150, 33-45.	2.8	71

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19	Disorganization of cytoplasmic Ca 2+ oscillations and pulsatile insulin secretion in islets from ob / ob mice. Diabetologia, 2002, 45, 1154-1163.	6.3	66
20	Glucose-Dependent Regulation of Î³-Aminobutyric Acid (GABAA) Receptor Expression in Mouse Pancreatic Islet Î±-Cells. Diabetes, 2007, 56, 320-327.	0.6	64
21	Mammalian Exocyst Complex Is Required for the Docking Step of InsulinVesicle Exocytosis. Journal of Biological Chemistry, 2005, 280, 25565-25570.	3.4	62
22	Sustained Exposure to High Glucose Concentrations Modifies Glucose Signaling and the Mechanics of Secretory Vesicle Fusion in Primary Rat Pancreatic Â-Cells. Diabetes, 2006, 55, 1057-1065.	0.6	62
23	Î²-Arrestin2 plays a key role in the modulation of the pancreatic beta cell mass in mice. Diabetologia, 2014, 57, 532-541.	6.3	51
24	Oscillations of insulin secretion can be triggered by imposed oscillations of cytoplasmic Ca2+ or metabolism in normal mouse islets. Diabetes, 1999, 48, 2374-2382.	0.6	48
25	Isolation and Culture of Mouse Pancreatic Islets for Ex Vivo Imaging Studies with Trappable or Recombinant Fluorescent Probes. Methods in Molecular Biology, 2010, 633, 171-184.	0.9	48
26	40th EASD Annual Meeting of the European Association for the Study of Diabetes. Diabetologia, 2004, 47, A1-A464.	6.3	41
27	Emerging roles for Î²-arrestin-1 in the control of the pancreatic Î²-cell function and mass: New therapeutic strategies and consequences for drug screening. Cellular Signalling, 2011, 23, 522-528.	3.6	39
28	Defects in mitophagy promote redoxâ€driven metabolic syndrome in the absence of <scp>TP</scp> 53 <scp>INP</scp> 1. EMBO Molecular Medicine, 2015, 7, 802-818.	6.9	38
29	FoxO1 Is Required for the Regulation of Preproglucagon Gene Expression by Insulin in Pancreatic Î±TC1-9 Cells. Journal of Biological Chemistry, 2006, 281, 39358-39369.	3.4	36
30	The Oscillatory Behavior of Pancreatic Islets from Mice with Mitochondrial Glycerol-3-phosphate Dehydrogenase Knockout. Journal of Biological Chemistry, 2000, 275, 1587-1593.	3.4	33
31	Dual mechanism of the potentiation by glucose of insulin secretion induced by arginine and tolbutamide in mouse islets. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E540-E549.	3.5	30
32	SREBP1 is required for the induction by glucose of pancreatic Î²-cell genes involved in glucose sensing. Journal of Lipid Research, 2008, 49, 814-822.	4.2	28
33	Inhibition of Protein Synthesis Sequentially Impairs Distinct Steps of Stimulus-secretion Coupling in Pancreatic Î² Cells1. Endocrinology, 2001, 142, 299-307.	2.8	27
34	Mechanisms of Beta-Cell Apoptosis in Type 2 Diabetes-Prone Situations and Potential Protection by GLP-1-Based Therapies. International Journal of Molecular Sciences, 2021, 22, 5303.	4.1	25
35	Do Oscillations of Insulin Secretion Occur in the Absence of Cytoplasmic Ca2+ Oscillations in Â-Cells?. Diabetes, 2002, 51, S177-S182.	0.6	24
36	Subplasmalemmal Ca2+ measurements in mouse pancreatic beta cells support the existence of an amplifying effect of glucose on insulin secretion. Diabetologia, 2010, 53, 1947-1957.	6.3	24

#	Article	IF	Citations
37	Rapid three-dimensional imaging of individual insulin release events by Nipkow disc confocal microscopy. Biochemical Society Transactions, 2006, 34, 675-678.	3.4	22
38	ERK1 is dispensable for mouse pancreatic beta cell function but is necessary for glucose-induced full activation of MSK1 and CREB. Diabetologia, 2017, 60, 1999-2010.	6.3	21
39	Imaging a target of Ca2+ signalling: Dense core granule exocytosis viewed by total internal reflection fluorescence microscopy. Methods, 2008, 46, 233-238.	3.8	20
40	Inhibition of the MAP3 kinase Tpl2 protects rodent and human Î²-cells from apoptosis and dysfunction induced by cytokines and enhances anti-inflammatory actions of exendin-4. Cell Death and Disease, 2016, 7, e2065-e2065.	6.3	20
41	Time and amplitude regulation of pulsatile insulin secretion by triggering and amplifying pathways in mouse islets. FEBS Letters, 2002, 530, 215-219.	2.8	19
42	Proteasomal degradation of the histone acetyl transferase p300 contributes to beta-cell injury in a diabetes environment. Cell Death and Disease, 2018, 9, 600.	6.3	16
43	Insulin secretion in health and disease: genomics, proteomics and single vesicle dynamics. Biochemical Society Transactions, 2006, 34, 247.	3.4	14
44	Inhibition of Protein Synthesis Sequentially Impairs Distinct Steps of Stimulus-secretion Coupling in Pancreatic Â Cells. Endocrinology, 2001, 142, 299-307.	2.8	9
45	The nuclear receptor REV-ERBÎ± is implicated in the alteration of Î²-cell autophagy and survival under diabetogenic conditions. Cell Death and Disease, 2022, 13, 353.	6.3	3
46	325-LB: Circadian Clock Nuclear Receptor REV-ERBa Is a Novel Regulator of Beta-Cell Function, Survival, and Autophagy under Diabetogenic Conditions. Diabetes, 2019, 68, .	0.6	2
47	RÃ1e clÃ© de la Î²-arrestine 1 dans la prÃ©servation de la fonction et de la masse des cellules Î² pancrÃ©atiques in vivo. Diabetes and Metabolism, 2017, 43, A84-A85.	2.9	0
48	La Î²-arrestine 2 joue un rÃ1e clÃ© dans la signalisation du rÃ©cepteur GLP-1 dans les cellules Î² pancrÃ©atiques. Diabetes and Metabolism, 2017, 43, A25-A26.	2.9	0
49	Methods to Study Roles of Î²-Arrestins in the Regulation of Pancreatic Î²-Cell Function. Methods in Molecular Biology, 2019, 1957, 345-364.	0.9	0