Fernando Abdulkader

List of Publications by Year
in descending order

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30 papers	1,544 citations	430874 18 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	2417 citing authors

#	Article	IF	Citations
1	GLP-1 Inhibits and Adrenaline Stimulates Glucagon Release by Differential Modulation of N- and L-Type Ca2+ Channel-Dependent Exocytosis. Cell Metabolism, 2010, 11, 543-553.	16.2	225
2	Novel aspects of the molecular mechanisms controlling insulin secretion. Journal of Physiology, 2008, 586, 3313-3324.	2.9	162
3	Comparative effects of DHA and EPA on cell function. , 2009, 122, 56-64.		162
4	Reactive oxygen and nitrogen species generation, antioxidant defenses, and Î²-cell function: a critical role for amino acids. Journal of Endocrinology, 2012, 214, 11-20.	2.6	129
5	Association of NAD(P)H Oxidase with Glucose-Induced Insulin Secretion by Pancreatic Î²-Cells. Endocrinology, 2009, 150, 2197-2201.	2.8	115
6	Expression of an activating mutation in the gene encoding the KATP channel subunit Kir6.2 in mouse pancreatic Î² cells recapitulates neonatal diabetes. Journal of Clinical Investigation, 2009, 119, 80-90.	8.2	95
7	KATP-channels and glucose-regulated glucagon secretion. Trends in Endocrinology and Metabolism, 2008, 19, 277-284.	7.1	86
8	Cell coupling in mouse pancreatic Î²-cells measured in intact islets of Langerhans. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3503-3523.	3.4	69
9	Progression of Diet-Induced Diabetes in C57BL6J Mice Involves Functional Dissociation of Ca2+ Channels From Secretory Vesicles. Diabetes, 2010, 59, 1192-1201.	0.6	63
10	Time-dependent effects of fatty acids on skeletal muscle metabolism. Journal of Cellular Physiology, 2007, 210, 7-15.	4.1	62
11	Control of the Intracellular Redox State by Glucose Participates in the Insulin Secretion Mechanism. PLoS ONE, 2011, 6, e24507.	2.5	52
12	Amino acids and diabetes: implications for endocrine, metabolic and immune function. Frontiers in Bioscience - Landmark, 2011, 16, 315.	3.0	41
13	Zinc Supplementation Improves Glucose Homeostasis in High Fat-Fed Mice by Enhancing Pancreatic Î²-Cell Function. Nutrients, 2017, 9, 1150.	4.1	34
14	Low doses of hydrogen peroxide impair glucose-stimulated insulin secretion via inhibition of glucose metabolism and intracellular calcium oscillations. Metabolism: Clinical and Experimental, 2010, 59, 409-413.	3.4	32
15	Smartphone-assisted experimentation as a didactic strategy to maintain practical lessons in remote education: alternatives for physiology education during the COVID-19 pandemic. American Journal of Physiology - Advances in Physiology Education, 2020, 44, 579-586.	1.6	27
16	Redox Activation of Nox1 (NADPH Oxidase 1) Involves an Intermolecular Disulfide Bond Between Protein Disulfide Isomerase and p47 ^{phox} in Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 224-236.	2.4	25
17	Acute effects of somatomammotropin hormones on neuronal components of the hypothalamic-pituitary-gonadal axis. Brain Research, 2019, 1714, 210-217.	2.2	23
18	Oleic Acid Modulates Metabolic Substrate Channeling during Glucose-Stimulated Insulin Secretion via NAD(P)H Oxidase. Endocrinology, 2011, 152, 3614-3621.	2.8	21

#	Article	IF	Citations
19	Distinct pathways of cholesterol biosynthesis impact on insulin secretion. Journal of Endocrinology, 2015, 224, 75-84.	2.6	21
20	Role of fatty acids in the transition from anaerobic to aerobic metabolism in skeletal muscle during exercise. Cell Biochemistry and Function, 2006, 24, 475-481.	2.9	19
21	Short-term high glucose culture potentiates pancreatic beta cell function. Scientific Reports, 2018, 8, 13061.	3.3	19
22	Fatty acid flip-flop and proton transport determined by short-circuit current in planar bilayers. Journal of Lipid Research, 2005, 46, 245-251.	4.2	18
23	Carbohydrate- and lipid-enriched meals acutely disrupt glycemic homeostasis by inducing transient insulin resistance in rats. Canadian Journal of Physiology and Pharmacology, 2012, 90, 537-545.	1.4	9
24	Chewing over physiology integration. American Journal of Physiology - Advances in Physiology Education, 2005, 29, 51-53.	1.6	8
25	Proton flux induced by free fatty acids across phospholipid bilayers: New evidences based on short-circuit measurements in planar lipid membranes. Archives of Biochemistry and Biophysics, 2009, 484, 63-69.	3.0	8
26	Surface potential determination in planar lipid bilayers: A simplification of the conductance-ratio method. Journal of Proteomics, 2007, 70, 515-518.	2.4	5
27	Mice born to females with oocyte-specific deletion of mitofusin 2 have increased weight gain and impaired glucose homeostasis. Molecular Human Reproduction, 2020, 26, 938-952.	2.8	5
28	Fatty acid transport across lipid bilayer planar membranes. Lipids, 2000, 35, 31-34.	1.7	4
29	Winter course in physiology: a successful example of continuing education for secondary school teachers in Brazil. American Journal of Physiology - Advances in Physiology Education, 2016, 40, 491-498.	1.6	3
30	Beneficial effects of physical exercise for Î²â€cell maintenance in a type 1 diabetes mellitus animal model. Experimental Physiology, 2021, 106, 1482-1497.	2.0	2