

Colin A Leech

List of Publications by Year in descending order

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37
papers

1,393
citations

448610

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times ranked

1821
citing authors

#	ARTICLE	IF	CITATIONS
1	Intra-islet glucagon confers β -cell glucose competence for first-phase insulin secretion and favors GLP-1R stimulation by exogenous glucagon. <i>Journal of Biological Chemistry</i> , 2022, 298, 101484.	1.6	18
2	The α -7 nicotinic acetylcholine receptor agonist GTS21 engages the glucagon-like peptide-1 incretin hormone axis to lower levels of blood glucose in db/db mice. <i>Diabetes, Obesity and Metabolism</i> , 2022, 24, 1255-1266.	2.2	8
3	New Insights into Beta-Cell GLP-1 Receptor and cAMP Signaling. <i>Journal of Molecular Biology</i> , 2020, 432, 1347-1366.	2.0	40
4	Therapeutic potential of α -7 nicotinic acetylcholine receptor agonists to combat obesity, diabetes, and inflammation. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2020, 21, 431-447.	2.6	24
5	α -kinase-regulator runs amok to provide a paradigm shift in cAMP signaling. <i>Journal of Biological Chemistry</i> , 2019, 294, 2247-2248.	1.6	4
6	Nonconventional glucagon and GLP-1 receptor agonist and antagonist interplay at the GLP-1 receptor revealed in high-throughput FRET assays for cAMP. <i>Journal of Biological Chemistry</i> , 2019, 294, 3514-3531.	1.6	24
7	Chimeric peptide EP45 as a dual agonist at GLP-1 and NPY2R receptors. <i>Scientific Reports</i> , 2018, 8, 3749.	1.6	35
8	Restoration of Glucose-Stimulated Cdc42-Pak1 Activation and Insulin Secretion by a Selective Epac Activator in Type 2 Diabetic Human Islets. <i>Diabetes</i> , 2018, 67, 1999-2011.	0.3	18
9	Interplay between ER Ca ²⁺ Binding Proteins, STIM1 and STIM2, Is Required for Store-Operated Ca ²⁺ Entry. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1522.	1.8	11
10	α -7 Nicotinic Acetylcholine Receptor Regulates the Function and Viability of L Cells. <i>Endocrinology</i> , 2018, 159, 3132-3142.	1.4	11
11	Stromal Interaction Molecule 1 (STIM1) Regulates ATP-sensitive Potassium (KATP) and Store-operated Ca ²⁺ Channels in MIN6 β -Cells. <i>Journal of Biological Chemistry</i> , 2017, 292, 2266-2277.	1.6	9
12	GPR119 Agonist AS1269574 Activates TRPA1 Cation Channels to Stimulate GLP-1 Secretion. <i>Molecular Endocrinology</i> , 2016, 30, 614-629.	3.7	20
13	IRS1 deficiency protects β -cells against ER stress-induced apoptosis by modulating sXBP-1 stability and protein translation. <i>Scientific Reports</i> , 2016, 6, 28177.	1.6	16
14	Synthetic small molecule GLP-1 secretagogues prepared by means of a three-component indole annulation strategy. <i>Scientific Reports</i> , 2016, 6, 28934.	1.6	18
15	Rp-cAMPS Prodrugs Reveal the cAMP Dependence of First-Phase Glucose-Stimulated Insulin Secretion. <i>Molecular Endocrinology</i> , 2015, 29, 988-1005.	3.7	32
16	Molecular Basis of cAMP Signaling in Pancreatic β Cells. , 2015, , 565-603.		2
17	Resveratrol Interferes with Fura-2 Intracellular Calcium Measurements. <i>Journal of Fluorescence</i> , 2014, 24, 279-284.	1.3	15
18	New insights concerning the molecular basis for defective glucoregulation in soluble adenylyl cyclase knockout mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 2593-2600.	1.8	15

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19	Molecular Basis of cAMP Signaling in Pancreatic Beta Cells. , 2014, , 1-36.		0
20	Molecular Basis of cAMP Signaling in Pancreatic Beta Cells. , 2014, , 1-35.		0
21	Synthesis, Characterization and Pharmacodynamics of Vitamin ¹² -Conjugated Glucagon-Like Peptide ¹ . ChemMedChem, 2013, 8, 582-586.	1.6	28
22	Epac2A Makes a New Impact in β^2 -Cell Biology. Diabetes, 2013, 62, 2665-2666.	0.3	11
23	Leptin-stimulated KATPchannel trafficking. Islets, 2013, 5, 229-232.	0.9	12
24	cAMP Sensor Epac and Gastrointestinal Function. , 2012, , 1849-1861.		1
25	Molecular physiology of glucagon-like peptide-1 insulin secretagogue action in pancreatic β^2 cells. Progress in Biophysics and Molecular Biology, 2011, 107, 236-247.	1.4	95
26	Phospholipase C- β links Epac2 activation to the potentiation of glucose-stimulated insulin secretion from mouse islets of Langerhans. Islets, 2011, 3, 121-128.	0.9	68
27	Epac2-dependent mobilization of intracellular Ca ²⁺ by glucagon-like peptide-1 receptor agonist exendin-4 is disrupted in β^2 -cells of phospholipase C- β knockout mice. Journal of Physiology, 2010, 588, 4871-4889.	1.3	61
28	PKA-dependent potentiation of glucose-stimulated insulin secretion by Epac activator 8-pCPT-2 TM -O-Me-cAMP-AM in human islets of Langerhans. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E622-E633.	1.8	67
29	Facilitation of β^2 -cell K _{ATP} channel sulfonylurea sensitivity by a cAMP analog selective for the cAMP-regulated guanine nucleotide exchange factor Epac. Islets, 2010, 2, 72-81.	0.9	43
30	Epac2-Dependent Rap1 Activation and the Control of Islet Insulin Secretion by Glucagon-Like Peptide-1. Vitamins and Hormones, 2010, 84, 279-302.	0.7	61
31	Enhanced Rap1 Activation and Insulin Secretagogue Properties of an Acetoxymethyl Ester of an Epac-selective Cyclic AMP Analog in Rat INS-1 Cells. Journal of Biological Chemistry, 2009, 284, 10728-10736.	1.6	56
32	Glucose-dependent potentiation of mouse islet insulin secretion by Epac activator 8-pCPT-2 TM -O-Me-cAMP-AM. Islets, 2009, 1, 260-265.	0.9	33
33	Role of the cAMP sensor Epac as a determinant of K _{ATP} channel ATP sensitivity in human pancreatic β^2 cells and rat INS ¹ cells. Journal of Physiology, 2008, 586, 1307-1319.	1.3	86
34	Synchronizing Ca ²⁺ and cAMP oscillations in pancreatic β^2 -cells: a role for glucose metabolism and GLP-1 receptors? Focus on Regulation of cAMP dynamics by Ca ²⁺ and G protein-coupled receptors in the pancreatic β^2 -cell: a computational approach. American Journal of Physiology - Cell Physiology, 2008, 294, C4-C6.	2.1	40
35	Expression of cAMP-Regulated Guanine Nucleotide Exchange Factors in Pancreatic β^2 -Cells. Biochemical and Biophysical Research Communications, 2000, 278, 44-47.	1.0	57
36	cAMP-dependent Mobilization of Intracellular Ca ²⁺ Stores by Activation of Ryanodine Receptors in Pancreatic β^2 -Cells. Journal of Biological Chemistry, 1999, 274, 14147-14156.	1.6	197

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37	Activation of a cAMP-regulated Ca ²⁺ -Signaling Pathway in Pancreatic β -Cells by the Insulinotropic Hormone Glucagon-like Peptide-1. Journal of Biological Chemistry, 1995, 270, 17749-17757.	1.6	157