

Damien J Keating

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

3,608
citations

33
h-index

57
g-index

112
ext. papers

4,522
ext. citations

6.6
avg, IF

5.62
L-index

#	Paper	IF	Citations
100	From gut dysbiosis to altered brain function and mental illness: mechanisms and pathways. <i>Molecular Psychiatry</i> , 2016 , 21, 738-48	15.1	468
99	Loss of K-Cl co-transporter KCC3 causes deafness, neurodegeneration and reduced seizure threshold. <i>EMBO Journal</i> , 2003 , 22, 5422-34	13	188
98	Release of 5-hydroxytryptamine from the mucosa is not required for the generation or propagation of colonic migrating motor complexes. <i>Gastroenterology</i> , 2010 , 138, 659-70 670.e1-2	13.3	125
97	The Diverse Metabolic Roles of Peripheral Serotonin. <i>Endocrinology</i> , 2017 , 158, 1049-1063	4.8	111
96	The Influence of the Gut Microbiome on Host Metabolism Through the Regulation of Gut Hormone Release. <i>Frontiers in Physiology</i> , 2019 , 10, 428	4.6	107
95	Reduction in voltage-gated K ⁺ currents in primary cultured rat pancreatic beta-cells by linoleic acids. <i>Endocrinology</i> , 2006 , 147, 674-82	4.8	105
94	NKCC1-dependent GABAergic excitation drives synaptic network maturation during early hippocampal development. <i>Journal of Neuroscience</i> , 2009 , 29, 3419-30	6.6	104
93	Emerging Roles for Serotonin in Regulating Metabolism: New Implications for an Ancient Molecule. <i>Endocrine Reviews</i> , 2019 , 40, 1092-1107	27.2	99
92	Mitochondrial dysfunction, oxidative stress, regulation of exocytosis and their relevance to neurodegenerative diseases. <i>Journal of Neurochemistry</i> , 2008 , 104, 298-305	6	98
91	Myristyl trimethyl ammonium bromide and octadecyl trimethyl ammonium bromide are surface-active small molecule dynamin inhibitors that block endocytosis mediated by dynamin I or dynamin II. <i>Molecular Pharmacology</i> , 2007 , 72, 1425-39	4.3	89
90	Mechanisms underlying distension-evoked peristalsis in guinea pig distal colon: is there a role for enterochromaffin cells?. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 301, G519-27	5.1	86
89	Mechanisms Controlling Glucose-Induced GLP-1 Secretion in Human Small Intestine. <i>Diabetes</i> , 2017 , 66, 2144-2149	0.9	69
88	Mice deficient for the chromosome 21 ortholog <i>Itsn1</i> exhibit vesicle-trafficking abnormalities. <i>Human Molecular Genetics</i> , 2008 , 17, 3281-90	5.6	69
87	The β cell/EC axis: how do islet cells talk to each other?. <i>Diabetes</i> , 2014 , 63, 3-11	0.9	66
86	Phosphatidylinositol(4,5)bisphosphate coordinates actin-mediated mobilization and translocation of secretory vesicles to the plasma membrane of chromaffin cells. <i>Nature Communications</i> , 2011 , 2, 491	17.4	65
85	DSCR1/RCAN1 regulates vesicle exocytosis and fusion pore kinetics: implications for Down syndrome and Alzheimer's disease. <i>Human Molecular Genetics</i> , 2008 , 17, 1020-30	5.6	62
84	Role of the vesicular chloride transporter ClC-3 in neuroendocrine tissue. <i>Journal of Neuroscience</i> , 2008 , 28, 10587-98	6.6	61

83	Identification of unique release kinetics of serotonin from guinea-pig and human enterochromaffin cells. <i>Journal of Physiology</i> , 2013 , 591, 5959-75	3.9	53
82	Identification of a Rhythmic Firing Pattern in the Enteric Nervous System That Generates Rhythmic Electrical Activity in Smooth Muscle. <i>Journal of Neuroscience</i> , 2018 , 38, 5507-5522	6.6	50
81	The gut microbiome regulates host glucose homeostasis via peripheral serotonin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19802-19804	11.5	49
80	Alzheimer's disease and endocytic dysfunction: clues from the Down syndrome-related proteins, DSCR1 and ITSN1. <i>Ageing Research Reviews</i> , 2006 , 5, 388-401	12	48
79	Small molecules demonstrate the role of dynamin as a bi-directional regulator of the exocytosis fusion pore and vesicle release. <i>Molecular Psychiatry</i> , 2015 , 20, 810-9	15.1	45
78	Activity-driven relaxation of the cortical actomyosin II network synchronizes Munc18-1-dependent neurosecretory vesicle docking. <i>Nature Communications</i> , 2015 , 6, 6297	17.4	44
77	Metformin-induced glucagon-like peptide-1 secretion contributes to the actions of metformin in type 2 diabetes. <i>JCI Insight</i> , 2018 , 3,	9.9	44
76	Regional differences in nutrient-induced secretion of gut serotonin. <i>Physiological Reports</i> , 2017 , 5, e13196	12.6	43
75	CrossTalk opposing view: 5-HT is not necessary for peristalsis. <i>Journal of Physiology</i> , 2015 , 593, 3229-31	3.9	43
74	Oxygen sensitivity in the sheep adrenal medulla: role of SK channels. <i>American Journal of Physiology - Cell Physiology</i> , 2001 , 281, C1434-41	5.4	42
73	The ever-changing roles of serotonin. <i>International Journal of Biochemistry and Cell Biology</i> , 2020 , 125, 105776	5.6	41
72	Adiponectin increases insulin content and cell proliferation in MIN6 cells via PPAR α -dependent and PPAR β -independent mechanisms. <i>Diabetes, Obesity and Metabolism</i> , 2012 , 14, 983-9	6.7	41
71	The nutrient-sensing repertoires of mouse enterochromaffin cells differ between duodenum and colon. <i>Neurogastroenterology and Motility</i> , 2017 , 29, e13046	4	39
70	Direct Reprogramming of Mouse Fibroblasts to Neural Stem Cells by Small Molecules. <i>Stem Cells International</i> , 2016 , 2016, 4304916	5	39
69	Augmented capacity for peripheral serotonin release in human obesity. <i>International Journal of Obesity</i> , 2018 , 42, 1880-1889	5.5	37
68	Increased expression of the glucose-responsive gene, RCAN1, causes hypoinsulinemia, β cell dysfunction, and diabetes. <i>Endocrinology</i> , 2012 , 153, 5212-21	4.8	36
67	What is the role of endogenous gut serotonin in the control of gastrointestinal motility?. <i>Pharmacological Research</i> , 2019 , 140, 50-55	10.2	32
66	Amyloid β (A β) up-regulates the expression of sortilin via the p75(NTR)/RhoA signaling pathway. <i>Journal of Neurochemistry</i> , 2013 , 127, 152-62	6	32

65	Gut Serotonin Is a Regulator of Obesity and Metabolism. <i>Gastroenterology</i> , 2015 , 149, 253-5	13.3	32
64	Treatment of type 2 diabetes with the designer cytokine IC7Fc. <i>Nature</i> , 2019 , 574, 63-68	50.4	30
63	Serotonin-secreting enteroendocrine cells respond via diverse mechanisms to acute and chronic changes in glucose availability. <i>Nutrition and Metabolism</i> , 2015 , 12, 55	4.6	30
62	Somatostatin increases voltage-gated K ⁺ currents in GH3 cells through activation of multiple somatostatin receptors. <i>Endocrinology</i> , 2005 , 146, 4975-84	4.8	30
61	Mechanisms controlling hormone secretion in human gut and its relevance to metabolism. <i>Journal of Endocrinology</i> , 2019 , 244, R1-R15	4.7	30
60	A Syntenic Cross Species Aneuploidy Genetic Screen Links RCAN1 Expression to β Cell Mitochondrial Dysfunction in Type 2 Diabetes. <i>PLoS Genetics</i> , 2016 , 12, e1006033	6	30
59	Enteroendocrine cells sense bacterial tryptophan catabolites to activate enteric and vagal neuronal pathways. <i>Cell Host and Microbe</i> , 2021 , 29, 179-196.e9	23.4	28
58	Endothelial progenitor cells enhance islet engraftment, influence β cell function, and modulate islet connexin 36 expression. <i>Cell Transplantation</i> , 2015 , 24, 37-48	4	25
57	Oxygen-sensing pathway for SK channels in the ovine adrenal medulla. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2005 , 32, 882-7	3	25
56	p75 neurotrophin receptor interacts with and promotes BACE1 localization in endosomes aggravating amyloidogenesis. <i>Journal of Neurochemistry</i> , 2018 , 144, 302-317	6	24
55	Huntingtin-associated protein 1 regulates exocytosis, vesicle docking, readily releasable pool size and fusion pore stability in mouse chromaffin cells. <i>Journal of Physiology</i> , 2014 , 592, 1505-18	3.9	23
54	The Regulation of Peripheral Metabolism by Gut-Derived Hormones. <i>Frontiers in Endocrinology</i> , 2018 , 9, 754	5.7	23
53	Pyrimidin compounds: dual-action small molecule pyrimidine-based dynamin inhibitors. <i>ACS Chemical Biology</i> , 2013 , 8, 1507-18	4.9	21
52	Exocytosis in non-neuronal cells. <i>Journal of Neurochemistry</i> , 2016 , 137, 849-59	6	21
51	Regulator of Calcineurin 1 helps coordinate whole-body metabolism and thermogenesis. <i>EMBO Reports</i> , 2018 , 19,	6.5	21
50	Inhibition of Miro1 disturbs mitophagy and pancreatic β cell function interfering insulin release via IRS-Akt-Foxo1 in diabetes. <i>Oncotarget</i> , 2017 , 8, 90693-90705	3.3	20
49	ClC-3--a granular anion transporter involved in insulin secretion?. <i>Cell Metabolism</i> , 2010 , 12, 307-308	24.6	20
48	Huntingtin-associated protein-1 (HAP1) regulates endocytosis and interacts with multiple trafficking-related proteins. <i>Cellular Signalling</i> , 2017 , 35, 176-187	4.9	19

47	RCAN1 regulates mitochondrial function and increases susceptibility to oxidative stress in mammalian cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 520316	6.7	19
46	Galanin receptor 3—a potential target for acute pancreatitis therapy. <i>Neurogastroenterology and Motility</i> , 2011 , 23, e141-51	4	19
45	Somatostatin decreases voltage-gated Ca ²⁺ currents in GH3 cells through activation of somatostatin receptor 2. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 292, E1863-70	6	19
44	Aging differentially affects multiple aspects of vesicle fusion kinetics. <i>PLoS ONE</i> , 2011 , 6, e27820	3.7	19
43	Fusion Pore Size Limits 5-HT Release From Single Enterochromaffin Cell Vesicles. <i>Journal of Cellular Physiology</i> , 2016 , 231, 1593-600	7	19
42	The neuronal and endocrine roles of RCAN1 in health and disease. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2018 , 45, 377-383	3	19
41	Abundance of Synaptic Vesicle-Related Proteins in Alpha-Synuclein-Containing Protein Inclusions Suggests a Targeted Formation Mechanism. <i>Neurotoxicity Research</i> , 2019 , 35, 883-897	4.3	18
40	RCAN1 regulates vesicle recycling and quantal release kinetics via effects on calcineurin activity. <i>Journal of Neurochemistry</i> , 2013 , 124, 290-9	6	18
39	Opioid receptor stimulation suppresses the adrenal medulla hypoxic response in sheep by actions on Ca ²⁺ and K ⁺ channels. <i>Journal of Physiology</i> , 2004 , 555, 489-502	3.9	17
38	Ghrelin reduces voltage-gated potassium currents in GH3 cells via cyclic GMP pathways. <i>Endocrine</i> , 2005 , 28, 217-24		17
37	Purification of β -Synuclein containing inclusions from human post mortem brain tissue. <i>Journal of Neuroscience Methods</i> , 2016 , 266, 141-50	3	17
36	Huntingtin-associated protein-1 is a synapsin I-binding protein regulating synaptic vesicle exocytosis and synapsin I trafficking. <i>Journal of Neurochemistry</i> , 2016 , 138, 710-21	6	15
35	Homozygous mutation of STXBP5L explains an autosomal recessive infantile-onset neurodegenerative disorder. <i>Human Molecular Genetics</i> , 2015 , 24, 2000-10	5.6	14
34	Synaptic activation of putative sensory neurons by hexamethonium-sensitive nerve pathways in mouse colon. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 314, G53-G64	5.1	14
33	Exocytosis is impaired in mucopolysaccharidosis IIIA mouse chromaffin cells. <i>Neuroscience</i> , 2012 , 227, 110-8	3.9	14
32	Gut Mechanisms Linking Intestinal Sweet Sensing to Glycemic Control. <i>Frontiers in Endocrinology</i> , 2018 , 9, 741	5.7	14
31	HAP1 Is Required for Endocytosis and Signalling of BDNF and Its Receptors in Neurons. <i>Molecular Neurobiology</i> , 2018 , 55, 1815-1830	6.2	12
30	Is There a Role for Endogenous 5-HT in Gastrointestinal Motility? How Recent Studies Have Changed Our Understanding. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 891, 113-22	3.6	12

29	Current Therapies That Modify Glucagon Secretion: What Is the Therapeutic Effect of Such Modifications?. <i>Current Diabetes Reports</i> , 2017 , 17, 128	5.6	11
28	Sugar Responses of Human Enterochromaffin Cells Depend on Gut Region, Sex, and Body Mass. <i>Nutrients</i> , 2019 , 11,	6.7	11
27	Linoleic acid induces Ca ²⁺ -induced inactivation of voltage-dependent Ca ²⁺ currents in rat pancreatic beta-cells. <i>Journal of Endocrinology</i> , 2008 , 196, 377-84	4.7	11
26	Serotonin Deficiency Is Associated With Delayed Gastric Emptying. <i>Gastroenterology</i> , 2021 , 160, 2451-2463	10.0	10
25	Metformin Triggers PYY Secretion in Human Gut Mucosa. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 2668-2674	5.6	9
24	Long-term inhibition of protein tyrosine kinase impairs electrophysiologic activity and a rapid component of exocytosis in pancreatic beta-cells. <i>Journal of Molecular Endocrinology</i> , 2005 , 35, 49-59	4.5	9
23	Huntingtin-associated protein 1: Eutherian adaptation from a TRAK-like protein, conserved gene promoter elements, and localization in the human intestine. <i>BMC Evolutionary Biology</i> , 2016 , 16, 214	3	8
22	The presence of 5-HT in myenteric varicosities is not due to uptake of 5-HT released from the mucosa during dissection: use of a novel method for quantifying 5-HT immunoreactivity in myenteric ganglia. <i>Neurogastroenterology and Motility</i> , 2013 , 25, 849-53	4	7
21	Rebuttal from Nick J. Spencer, Tiong Cheng Sia, Simon J Brookes, Marcello Costa and Damien J. Keating. <i>Journal of Physiology</i> , 2015 , 593, 3235	3.9	5
20	Copper modulates the large dense core vesicle secretory pathway in PC12 cells. <i>Metallomics</i> , 2013 , 5, 700-14	4.5	5
19	The composition of the gut microbiota following early-life antibiotic exposure affects host health and longevity in later life. <i>Cell Reports</i> , 2021 , 36, 109564	10.6	5
18	The contribution of voltage-gated Ca ²⁺ currents to K ⁺ channel activation during ovine adrenal chromaffin cell development. <i>International Journal of Developmental Neuroscience</i> , 2009 , 27, 357-63	2.7	4
17	Activin A stimulates catecholamine secretion from rat adrenal chromaffin cells: a new physiological mechanism. <i>Journal of Endocrinology</i> , 2005 , 186, R1-5	4.7	4
16	A Gut-Intrinsic Melanocortin Signaling Complex Augments L-Cell Secretion in Humans. <i>Gastroenterology</i> , 2021 , 161, 536-547.e2	13.3	4
15	Local Sphingosine Kinase 1 Activity Improves Islet Transplantation. <i>Diabetes</i> , 2017 , 66, 1301-1311	0.9	3
14	Diet differentially regulates enterochromaffin cell serotonin content, density and nutrient sensitivity in the mouse small and large intestine. <i>Neurogastroenterology and Motility</i> , 2020 , 32, e13869	4	3
13	The Suitability of Glioblastoma Cell Lines as Models for Primary Glioblastoma Cell Metabolism. <i>Cancers</i> , 2020 , 12,	6.6	3
12	Extracellular and intracellular sphingosine-1-phosphate distinctly regulates exocytosis in chromaffin cells. <i>Journal of Neurochemistry</i> , 2019 , 149, 729-746	6	2

11	Islets and pancreatic ductal adenocarcinoma - An opportunity for translational research from the Bench to the Bedside <i>S Pancreatology</i> , 2020 , 20, 385-390	3.8	2
10	ICAM-1-related long non-coding RNA: promoter analysis and expression in human retinal endothelial cells. <i>BMC Research Notes</i> , 2018 , 11, 285	2.3	2
9	Enteroendocrine cells sense bacterial tryptophan catabolites to activate enteric and vagal neuronal pathways		2
8	Cellular Regulation of Peripheral Serotonin 2019 , 137-153		2
7	Amperometry in Single Cells and Tissue. <i>Methods in Molecular Biology</i> , 2021 , 2233, 223-231	1.4	1
6	Role of 5-Hydroxytryptamine in the Control of Gut Motility 2019 , 155-166		1
5	Dynamin regulates L cell secretion in human gut. <i>Molecular and Cellular Endocrinology</i> , 2021 , 535, 111398	4.4	1
4	Pharmacological and structure-activity relationship studies of oleoyl-lysophosphatidylinositol synthetic mimetics. <i>Pharmacological Research</i> , 2021 , 172, 105822	10.2	1
3	Circulating cathepsin S improves glycaemic control in mice. <i>Journal of Endocrinology</i> , 2021 , 248, 167-179	4.7	0
2	Distinguishing the contributions of neuronal and mucosal serotonin in the regulation of colonic motility.. <i>Neurogastroenterology and Motility</i> , 2022 , e14361	4	0
1	Exocytosis, Mitochondrial Injury and Oxidative Stress in Neurodegenerative Diseases 2009 , 65-81		