Dominic J Withers

List of Publications by Year
in descending order

108 papers	16,602 citations	34016 52 h-index	35952 97 g-index
115 all docs	115 docs citations	115 times ranked	19490 citing authors

#	Article	IF	Citations
1	Spontaneous Cholemia in C57BL/6 Mice Predisposes to Liver Cancer in NASH. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 875-878.	2.3	5
2	Reproducing the dopamine pathophysiology of schizophrenia and approaches to ameliorate it: a translational imaging study with ketamine. Molecular Psychiatry, 2021, 26, 2562-2576.	4.1	60
3	Sexually dimorphic roles for the type 2 diabetes-associated C2cd4b gene in murine glucose homeostasis. Diabetologia, 2021, 64, 850-864.	2.9	7
4	Î²-synuclein potentiates synaptic vesicle dopamine uptake and rescues dopaminergic neurons from MPTP-induced death in the absence of other synucleins. Journal of Biological Chemistry, 2021, 297, 101375.	1.6	10
5	Galactoseâ€modified duocarmycin prodrugs as senolytics. Aging Cell, 2020, 19, e13133.	3.0	84
6	Genomic imprinting and its effects on postnatal growth and adult metabolism. Cellular and Molecular Life Sciences, 2019, 76, 4009-4021.	2.4	47
7	Genetic deletion of S6k1 does not rescue the phenotypic deficits observed in the R6/2 mouse model of Huntingtonâ€™s disease. Scientific Reports, 2019, 9, 16133.	1.6	2
8	Platelet GPIbÎ± is a mediator and potential interventional target for NASH and subsequent liver cancer. Nature Medicine, 2019, 25, 641-655.	15.2	259
9	Cardiac glycosides are broad-spectrum senolytics. Nature Metabolism, 2019, 1, 1074-1088.	5.1	207
10	Deletion of myeloid IRS2 enhances adipose tissue sympathetic nerve function and limits obesity. Molecular Metabolism, 2019, 20, 38-50.	3.0	18
11	Neural Responsivity to Food Cues in Patients With Unmedicated First-Episode Psychosis. JAMA Network Open, 2019, 2, e186893.	2.8	11
12	Extrahypothalamic GABAergic nociceptinâ€“expressing neurons regulate AgRP neuron activity to control feeding behavior. Journal of Clinical Investigation, 2019, 130, 126-142.	3.9	20
13	Neuronatin deletion causes postnatal growth restriction and adult obesity in 129S2/Sv mice. Molecular Metabolism, 2018, 18, 97-106.	3.0	22
14	Calcium Channel CaV2.3 Subunits Regulate Hepatic Glucose Production by Modulating Leptin-Induced Excitation of Arcuate Pro-opiomelanocortin Neurons. Cell Reports, 2018, 25, 278-287.e4.	2.9	9
15	Neuronatin regulates pancreatic Î² cell insulin content and secretion. Journal of Clinical Investigation, 2018, 128, 3369-3381.	3.9	47
16	Phasic Stimulation of Midbrain Dopamine Neuron Activity Reduces Salt Consumption. ENeuro, 2018, 5, ENEURO.0064-18.2018.	0.9	29
17	nNOS-Expressing Neurons in the Ventral Tegmental Area and Substantia Nigra Pars Compacta. ENeuro, 2018, 5, ENEURO.0381-18.2018.	0.9	14
18	Common and unique transcriptional responses to dietary restriction and loss of insulin receptor substrate 1 (IRS1) in mice. Aging, 2018, 10, 1027-1052.	1.4	8

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19	Visualizing Changes in Cdkn1c Expression Links Early-Life Adversity to Imprint Mis-regulation in Adults. Cell Reports, 2017, 18, 1090-1099.	2.9	43
20	An atypical switch for metabolism and ageing. Nature, 2017, 542, 299-300.	13.7	2
21	Hypothalamic-Pituitary Axis Regulates Hydrogen Sulfide Production. Cell Metabolism, 2017, 25, 1320-1333.e5.	7.2	71
22	Modulation of SF1 Neuron Activity Coordinately Regulates Both Feeding Behavior and Associated Emotional States. Cell Reports, 2017, 21, 3559-3572.	2.9	73
23	Evidence that S6K1, but not 4E-BP1, mediates skeletal muscle pathology associated with loss of A-type lamins. Cell Discovery, 2017, 3, 17039.	3.1	13
24	Chronic Activation of Î³2 AMPK Induces Obesity and Reduces Î² Cell Function. Cell Metabolism, 2016, 23, 821-836.	7.2	87
25	Out with the old. Nature, 2016, 530, 164-165.	13.7	20
26	Evidence that hematopoietic stem cell function is preserved during aging in long-lived S6K1 mutant mice. Oncotarget, 2016, 7, 29937-29943.	0.8	14
27	Pharmacogenetic stimulation of cholinergic pedunculopontine neurons reverses motor deficits in a rat model of Parkinsonâ€™s disease. Molecular Neurodegeneration, 2015, 10, 47.	4.4	41
28	Ribosomal S6K1 in POMC and AgRP Neurons Regulates Glucose Homeostasis but Not Feeding Behavior in Mice. Cell Reports, 2015, 11, 335-343.	2.9	59
29	mTOR regulates MAPKAPK2 translation to control the senescence-associated secretory phenotype. Nature Cell Biology, 2015, 17, 1205-1217.	4.6	552
30	PINK1 deficiency in Î²-cells increases basal insulin secretion and improves glucose tolerance in mice. Open Biology, 2014, 4, 140051.	1.5	40
31	Fibroblasts derived from longâ€lived insulin receptor substrate 1 null mice are not resistant to multiple forms of stress. Aging Cell, 2014, 13, 962-964.	3.0	4
32	Caloric restriction reveals a metabolomic and lipidomic signature in liver of male mice. Aging Cell, 2014, 13, 828-837.	3.0	63
33	Differential Effects of Laparoscopic Sleeve Gastrectomy and Laparoscopic Gastric Bypass on Appetite, Circulating Acyl-ghrelin, Peptide YY3-36 and Active GLP-1 Levels in Non-diabetic Humans. Obesity Surgery, 2014, 24, 241-252.	1.1	222
34	Longevity of insulin receptor substrate1 null mice is not associated with increased basal antioxidant protection or reduced oxidative damage. Age, 2013, 35, 647-658.	3.0	5
35	Peripheral activation of the Y2-receptor promotes secretion of GLP-1 and improves glucose tolerance. Molecular Metabolism, 2013, 2, 142-152.	3.0	54
36	A link between FTO, ghrelin, and impaired brain food-cue responsivity. Journal of Clinical Investigation, 2013, 123, 3539-3551.	3.9	307

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37	Longâ€term p110Î± PI3K inactivation exerts a beneficial effect on metabolism. EMBO Molecular Medicine, 2013, 5, 563-571.	3.3	84
38	Differential Pre-mRNA Splicing Regulates Nnat Isoforms in the Hypothalamus after Gastric Bypass Surgery in Mice. PLoS ONE, 2013, 8, e59407.	1.1	11
39	Experimental analysis of risk factors for ulcerative dermatitis in mice. Experimental Dermatology, 2012, 21, 712-713.	1.4	17
40	Metabotyping of Long-Lived Mice using ¹H NMR Spectroscopy. Journal of Proteome Research, 2012, 11, 2224-2235.	1.8	53
41	Regulation of hindbrainPyyexpression by acute food deprivation, prolonged caloric restriction, and weight loss surgery in mice. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E659-E668.	1.8	13
42	Brain Deletion of Insulin Receptor Substrate 2 Disrupts Hippocampal Synaptic Plasticity and Metaplasticity. PLoS ONE, 2012, 7, e31124.	1.1	60
43	Mammalian models of extended healthy lifespan. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 99-107.	1.8	68
44	LKB1 is required for hepatic bile acid transport and canalicular membrane integrity in mice. Biochemical Journal, 2011, 434, 49-60.	1.7	70
45	Contribution of ROS-Metabolism in Tissue Homogenates and Dermal Fibroblasts of Long-Lived Insulin Receptor Substrate 1 (Irs1) Knockout Mice. Free Radical Biology and Medicine, 2011, 51, S78-S79.	1.3	0
46	Deletion of <i>Lkb1</i> in Pro-Opiomelanocortin Neurons Impairs Peripheral Glucose Homeostasis in Mice. Diabetes, 2011, 60, 735-745.	0.3	48
47	Diet and Gastrointestinal Bypassâ€“Induced Weight Loss. Diabetes, 2011, 60, 810-818.	0.3	132
48	Insulin receptor substrate 2 is a negative regulator of memory formation. Learning and Memory, 2011, 18, 375-383.	0.5	50
49	Replication of Extended Lifespan Phenotype in Mice with Deletion of Insulin Receptor Substrate 1. PLoS ONE, 2011, 6, e16144.	1.1	81
50	Loss of AMP-activated protein kinase Î±2 subunit in mouse Î²-cells impairs glucose-stimulated insulin secretion and inhibits their sensitivity to hypoglycaemia. Biochemical Journal, 2010, 429, 323-333.	1.7	60
51	Bio-informatics analysis of a gene co-expression module in adipose tissue containing the diet-responsive gene Nnat. BMC Systems Biology, 2010, 4, 175.	3.0	28
52	The hypoxia response pathway and <i>Î²</i>â€cell function. Diabetes, Obesity and Metabolism, 2010, 12, 159-167.	2.2	95
53	Regulation of Lifespan, Metabolism, and Stress Responses by the Drosophila SH2B Protein, Lnk. PLoS Genetics, 2010, 6, e1000881.	1.5	75
54	Phosphoinositide Signalling Pathways in Metabolic Regulation. Current Topics in Microbiology and Immunology, 2010, 346, 115-141.	0.7	17

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55	Dominant Role of the p110Î² Isoform of PI3K over p110Î± in Energy Homeostasis Regulation by POMC and AgRP Neurons. Cell Metabolism, 2009, 10, 343-354.	7.2	149
56	Deletion of Irs2 reduces amyloid deposition and rescues behavioural deficits in APP transgenic mice. Biochemical and Biophysical Research Communications, 2009, 386, 257-262.	1.0	121
57	5-HT inhibition of rat insulin 2 promoter Cre recombinase transgene and proopiomelanocortin neuron excitability in the mouse arcuate nucleus. Neuroscience, 2009, 159, 83-93.	1.1	8
58	Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span. Science, 2009, 326, 140-144.	6.0	1,009
59	Deletion of the von Hippelâ€“Lindau gene in pancreatic Î² cells impairs glucose homeostasis in mice. Journal of Clinical Investigation, 2009, 119, 125-35.	3.9	108
60	Evidence for lifespan extension and delayed ageâ€“related biomarkers in insulin receptor substrate 1 null mice. FASEB Journal, 2008, 22, 807-818.	0.2	487
61	Comment on "Brain IRS2 Signaling Coordinates Life Span and Nutrient Homeostasis". Science, 2008, 320, 1012-1012.	6.0	48
62	Melanocortins and the control of body weight. , 2008, , 196-231.		0
63	Introductory chapter. , 2008, , 1-19.		0
64	Leptin and insulin as adiposity signals. , 2008, , 83-126.		0
65	Central nervous system controls of adipose tissue apoptosis. , 2008, , 285-301.		0
66	Hypothalamic control of energy homeostasis. , 2008, , 52-82.		0
67	Potential therapies to limit obesity. , 2008, , 302-319.		0
68	Genetics of human and rodent body weight regulation. , 2008, , 20-51.		0
69	Role of opiate peptides in regulating energy balance. , 2008, , 232-265.		1
70	Role of Central Nervous System and Ovarian Insulin Receptor Substrate 2 Signaling in Female Reproductive Function in the Mouse1. Biology of Reproduction, 2007, 76, 1045-1053.	1.2	25
71	Evolutionary conservation of regulated longevity assurance mechanisms. Genome Biology, 2007, 8, R132.	13.9	173
72	Melanocortins and agouti-related protein modulate the excitability of two arcuate nucleus neuron populations by alteration of resting potassium conductances. Journal of Physiology, 2007, 578, 425-438.	1.3	50

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73	PYY modulation of cortical and hypothalamic brain areas predicts feeding behaviour in humans. Nature, 2007, 450, 106-109.	13.7	413
74	Pancreatic deletion of insulin receptor substrate 2 reduces beta and alpha cell mass and impairs glucose homeostasis in mice. Diabetologia, 2007, 50, 1248-1256.	2.9	75
75	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. Journal of Clinical Investigation, 2007, 117, 2325-2336.	3.9	445
76	Critical role for peptide YY in protein-mediated satiation and body-weight regulation. Cell Metabolism, 2006, 4, 223-233.	7.2	501
77	Critical role for the p110Î± phosphoinositide-3-OH kinase in growth and metabolic regulation. Nature, 2006, 441, 366-370.	13.7	439
78	Liver-specific deletion of insulin receptor substrate 2 does not impair hepatic glucose and lipid metabolism in mice. Diabetologia, 2006, 49, 552-561.	2.9	34
79	Coordinated multitissue transcriptional and plasma metabonomic profiles following acute caloric restriction in mice. Physiological Genomics, 2006, 27, 187-200.	1.0	109
80	Longer lifespan, altered metabolism, and stress resistance in Drosophila from ablation of cells making insulin-like ligands. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3105-3110.	3.3	734
81	Sex and Death: What Is the Connection?. Cell, 2005, 120, 461-472.	13.5	390
82	The role of insulin receptor substrate 2 in hypothalamic and Î² cell function. Journal of Clinical Investigation, 2005, 115, 940-950.	3.9	209
83	Inhibition of Food Intake in Obese Subjects by Peptide YY3â€"36. New England Journal of Medicine, 2003, 349, 941-948.	13.9	1,423
84	Stat6 and IRS-2 Cooperate in Interleukin 4 (IL-4)-Induced Proliferation and Differentiation but Are Dispensable for IL-4-Dependent Rescue from Apoptosis. Molecular and Cellular Biology, 2002, 22, 117-126.	1.1	79
85	Insulin receptor substrate proteins and neuroendocrine function. Biochemical Society Transactions, 2001, 29, 525-529.	1.6	55
86	IRS-2 pathways integrate female reproduction and energy homeostasis. Nature, 2000, 407, 377-382.	13.7	425
87	Perspective: The Insulin Signaling Systemâ€"A Common Link in the Pathogenesis of Type 2 Diabetes. Endocrinology, 2000, 141, 1917-1921.	1.4	114
88	Contrasting Effects of IRS-1 Versus IRS-2 Gene Disruption on Carbohydrate and Lipid Metabolism in Vivo. Journal of Biological Chemistry, 2000, 275, 38990-38994.	1.6	247
89	Tissue-specific insulin resistance in mice with mutations in the insulin receptor, IRS-1, and IRS-2. Journal of Clinical Investigation, 2000, 105, 199-205.	3.9	419
90	Insulin Receptor Substrate-2 Is Not Necessary for Insulin- and Exercise-stimulated Glucose Transport in Skeletal Muscle. Journal of Biological Chemistry, 1999, 274, 20791-20795.	1.6	89

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91	Irs-2 coordinates Igf-1 receptor-mediated Î²-cell development and peripheral insulin signalling. Nature Genetics, 1999, 23, 32-40.	9.4	486
92	Mammalian target of rapamycin is a direct target for protein kinase B: identification of a convergence point for opposing effects of insulin and amino-acid deficiency on protein translation. Biochemical Journal, 1999, 344, 427.	1.7	203
93	Mammalian target of rapamycin is a direct target for protein kinase B: identification of a convergence point for opposing effects of insulin and amino-acid deficiency on protein translation. Biochemical Journal, 1999, 344, 427-431.	1.7	795
94	Insulin action and type 2 diabetes: lessons from knockout mice. Current Opinion in Endocrinology, Diabetes and Obesity, 1999, 6, 141-145.	0.6	9
95	Disruption of IRS-2 causes type 2 diabetes in mice. Nature, 1998, 391, 900-904.	13.7	1,607
96	Phosphoinositide 3-kinase: the key switch mechanism in insulin signalling. Biochemical Journal, 1998, 333, 471-490.	1.7	924
97	Regulation of anterior pituitary galanin and vasoactive intestinal peptide by oestrogen and prolactin status. Journal of Endocrinology, 1997, 152, 211-219.	1.2	15
98	Expression, Enzyme Activity, and Subcellular Localization of Mammalian Target of Rapamycin in Insulin-Responsive Cells. Biochemical and Biophysical Research Communications, 1997, 241, 704-709.	1.0	69
99	Rapamycin Dissociates p70 Activation from DNA Synthesis Stimulated by Bombesin and Insulin in Swiss 3T3 Cells. Journal of Biological Chemistry, 1997, 272, 2509-2514.	1.6	36
100	Leptin rapidly suppresses insulin release from insulinoma cells, rat and human islets and, in vivo, in mice.. Journal of Clinical Investigation, 1997, 100, 2729-2736.	3.9	258
101	Adrenomedullin stimulates DNA synthesis and cell proliferation via elevation of cAMP in Swiss 3T3 cells. FEBS Letters, 1996, 378, 83-87.	1.3	136
102	Reduced Requirement of Mitogen-activated Protein Kinase (MAPK) Activity for Entry into the S Phase of the Cell Cycle in Swiss 3T3 Fibroblasts Stimulated by Bombesin and Insulin. Journal of Biological Chemistry, 1996, 271, 21471-21477.	1.6	47
103	Dissociation of cAMP-stimulated Mitogenesis from Activation of the Mitogen-activated Protein Kinase Cascade in Swiss 3T3 Cells. Journal of Biological Chemistry, 1995, 270, 21411-21419.	1.6	54
104	Evidence for neuromedin-B synthesis in the rat anterior pituitary gland. Endocrinology, 1992, 130, 1829-1836.	1.4	23
105	Neuromedin B synthesis in the rat anterior pituitary and its regulation by endocrine status. Regulatory Peptides, 1991, 35, 241.	1.9	0
106	Convergence of leptin and insulin signaling networks in obesity. , 0, , 127-163.		0
107	Diet-induced obesity in animal models and what they tell us about human obesity. , 0, , 164-195.		7
108	Ghrelin: an orexigenic signal from the stomach. , 0, , 266-284.		0