Michael A Cowley

List of Publications by Year
in descending order

129	19,988	28274 55	13771 129
papers	citations	h-index	g-index

136	136	136	16898
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gut hormone PYY3-36 physiologically inhibits food intake. Nature, 2002, 418, 650-654.	27.8	2,039
2	Leptin activates anorexigenic POMC neurons through a neural network in the arcuate nucleus. Nature, 2001, 411, 480-484.	27.8	2,008
3	The Distribution and Mechanism of Action of Ghrelin in the CNS Demonstrates a Novel Hypothalamic Circuit Regulating Energy Homeostasis. Neuron, 2003, 37, 649-661.	8.1	1,465
4	Mechanisms of Leptin Action and Leptin Resistance. Annual Review of Physiology, 2008, 70, 537-556.	13.1	880
5	Ghrelin. Molecular Metabolism, 2015, 4, 437-460.	6.5	810
6	Leptin Directly Activates SF1 Neurons in the VMH, and This Action by Leptin Is Required for Normal Body-Weight Homeostasis. Neuron, 2006, 49, 191-203.	8.1	703
7	The arcuate nucleus mediates GLP-1 receptor agonist liraglutide-dependent weight loss. Journal of Clinical Investigation, 2014, 124, 4473-4488.	8.2	617
8	Glucose sensing by POMC neurons regulates glucose homeostasis and is impaired in obesity. Nature, 2007, 449, 228-232.	27.8	598
9	Insulin Action in AgRP-Expressing Neurons Is Required for Suppression of Hepatic Glucose Production. Cell Metabolism, 2007, 5, 438-449.	16.2	579
10	Integration of NPY, AGRP, and Melanocortin Signals in the Hypothalamic Paraventricular Nucleus. Neuron, 1999, 24, 155-163.	8.1	569
11	Diet-Induced Obesity Causes Severe but Reversible Leptin Resistance in Arcuate Melanocortin Neurons. Cell Metabolism, 2007, 5, 181-194.	16.2	481
12	The arcuate nucleus as a conduit for diverse signals relevant to energy homeostasis. International Journal of Obesity, 2001, 25, S63-S67.	3.4	457
13	Activation of Central Melanocortin Pathways by Fenfluramine. Science, 2002, 297, 609-611.	12.6	448
14	Synaptic input organization of the melanocortin system predicts diet-induced hypothalamic reactive gliosis and obesity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14875-14880.	7.1	370
15	Serotonin Reciprocally Regulates Melanocortin Neurons to Modulate Food Intake. Neuron, 2006, 51, 239-249.	8.1	345
16	Hypothalamic POMC neurons promote cannabinoid-induced feeding. Nature, 2015, 519, 45-50.	27.8	336
17	Leptin and Insulin Act on POMC Neurons to Promote the Browning of White Fat. Cell, 2015, 160, 88-104.	28.9	308
18	Acute effects of leptin require PI3K signaling in hypothalamic proopiomelanocortin neurons in mice. Journal of Clinical Investigation, 2008, 118, 1796-1805.	8.2	293

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19	Leptin Mediates the Increase in Blood Pressure Associated with Obesity. Cell, 2014, 159, 1404-1416.	28.9	288
20	Rational Design of a Combination Medication for the Treatment of Obesity. Obesity, 2009, 17, 30-39.	3.0	266
21	Leptin Action in the Dorsomedial Hypothalamus Increases Sympathetic Tone to Brown Adipose Tissue in Spite of Systemic Leptin Resistance. Journal of Neuroscience, 2011, 31, 12189-12197.	3.6	261
22	Diet-Induced Obesity Causes Ghrelin Resistance in Arcuate NPY/AgRP Neurons. Endocrinology, 2010, 151, 4745-4755.	2.8	254
23	Leptin Resistance and Obesity. Obesity, 2006, 14, 254S-258S.	3.0	229
24	Distinct physiological and behavioural functions for parental alleles of imprinted Grb10. Nature, 2011, 469, 534-538.	27.8	204
25	Transposable Elements Re-Wire and Fine-Tune the Transcriptome. PLoS Genetics, 2013, 9, e1003234.	3.5	192
26	Chronic Treatment With a Melanocortin-4 Receptor Agonist Causes Weight Loss, Reduces Insulin Resistance, and Improves Cardiovascular Function in Diet-Induced Obese Rhesus Macaques. Diabetes, 2013, 62, 490-497.	0.6	165
27	Elevated Hypothalamic TCPTP in Obesity Contributes to Cellular Leptin Resistance. Cell Metabolism, 2011, 14, 684-699.	16.2	162
28	Comparison of Combined Bupropion and Naltrexone Therapy for Obesity with Monotherapy and Placebo. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 4898-4906.	3.6	151
29	Central Serotonin and Melanocortin Pathways Regulating Energy Homeostasis. Annals of the New York Academy of Sciences, 2003, 994, 169-174.	3.8	150
30	Early Overnutrition Results in Early-Onset Arcuate Leptin Resistance and Increased Sensitivity to High-Fat Diet. Endocrinology, 2010, 151, 1598-1610.	2.8	148
31	Naltrexone/bupropion for obesity: An investigational combination pharmacotherapy for weight loss. Pharmacological Research, 2014, 84, 1-11.	7.1	139
32	Peptide YY Is a Regulator of Energy Homeostasis in Obese Children before and after Weight Loss. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 6386-6391.	3.6	131
33	Regulation of Central Melanocortin Signaling by Interleukin-1Î². Endocrinology, 2007, 148, 4217-4225.	2.8	128
34	The electrophysiology of feeding circuits. Trends in Endocrinology and Metabolism, 2004, 15, 488-499.	7.1	127
35	The melanocortin pathway and energy homeostasis: From discovery to obesity therapy. Molecular Metabolism, 2021, 48, 101206.	6.5	114
36	Hypothalamic Circuitry of Neuropeptide Y Regulation of Neuroendocrine Function and Food Intake via the Y5 Receptor Subtype. Neuroendocrinology, 2001, 74, 106-119.	2.5	113

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37	Coenzyme Q Induces Nigral Mitochondrial Uncoupling and Prevents Dopamine Cell Loss in a Primate Model of Parkinsonâ€™s Disease. Endocrinology, 2003, 144, 2757-2760.	2.8	112
38	Electrophysiological Actions of Peripheral Hormones on Melanocortin Neurons. Annals of the New York Academy of Sciences, 2003, 994, 175-186.	3.8	109
39	Starvation after AgRP neuron ablation is independent of melanocortin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2687-2692.	7.1	102
40	The Role of Thermogenesis in Antipsychotic Drugâ€induced Weight Gain. Obesity, 2009, 17, 16-24.	3.0	93
41	Peptide YY(3-36) Inhibits Morning, but Not Evening, Food Intake and Decreases Body Weight in Rhesus Macaques. Diabetes, 2005, 54, 3198-3204.	0.6	92
42	Physiological Evidence for the Involvement of Peptide YY in the Regulation of Energy Homeostasis in Humans. Obesity, 2006, 14, 1562-1570.	3.0	92
43	Excess Weight Gain during the Early Postnatal Period Is Associated with Permanent Reprogramming of Brown Adipose Tissue Adaptive Thermogenesis. Endocrinology, 2007, 148, 4150-4159.	2.8	91
44	Maternally-inherited Grb10 reduces placental size and efficiency. Developmental Biology, 2010, 337, 1-8.	2.0	85
45	New insights in leptin resistance mechanisms in mice. Frontiers in Neuroendocrinology, 2015, 39, 59-65.	5.2	85
46	Insulin regulates POMC neuronal plasticity to control glucose metabolism. ELife, 2018, 7, .	6.0	85
47	Estradiol Prevents Fat Accumulation and Overcomes Leptin Resistance in Female High-Fat Diet Mice. Endocrinology, 2014, 155, 4447-4460.	2.8	83
48	Regulation of Agouti-Related Protein Messenger Ribonucleic Acid Transcription and Peptide Secretion by Acute and Chronic Inflammation. Endocrinology, 2008, 149, 4837-4845.	2.8	79
49	Hypothalamic Insulin Resistance in Obesity: Effects on Glucose Homeostasis. Neuroendocrinology, 2017, 104, 364-381.	2.5	76
50	Developmental Switch in Neuropeptide Y and Melanocortin Effects in the Paraventricular Nucleus of the Hypothalamus. Neuron, 2007, 56, 1103-1115.	8.1	71
51	Appropriate Inhibition of Orexigenic Hypothalamic Arcuate Nucleus Neurons Independently of Leptin Receptor/STAT3 Signaling. Journal of Neuroscience, 2007, 27, 69-74.	3.6	70
52	Hypothalamic melanocortin neurons integrate signals of energy state. European Journal of Pharmacology, 2003, 480, 3-11.	3.5	68
53	Leptin Stimulates Neuropeptide Y and Cocaine Amphetamine-Regulated Transcript Coexpressing Neuronal Activity in the Dorsomedial Hypothalamus in Diet-Induced Obese Mice. Journal of Neuroscience, 2013, 33, 15306-15317.	3.6	68
54	Developmental Switch of Leptin Signaling in Arcuate Nucleus Neurons. Journal of Neuroscience, 2014, 34, 9982-9994.	3.6	66

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55	Effects of Cadmium Exposure on DNA Methylation at Imprinting Control Regions and Genome-Wide in Mothers and Newborn Children. Environmental Health Perspectives, 2018, 126, 037003.	6.0	61
56	Ghrelinâ€"Satisfying a Hunger for the Mechanism. Endocrinology, 2004, 145, 2604-2606.	2.8	57
57	Regulatory links between imprinted genes: evolutionary predictions and consequences. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152760.	2.6	56
58	Treatment of type 2 diabetes with the designer cytokine IC7Fc. Nature, 2019, 574, 63-68.	27.8	55
59	Intranasal Targeting of Hypothalamic PTP1B and TCPTP Reinstates Leptin and Insulin Sensitivity and Promotes Weight Loss in Obesity. Cell Reports, 2019, 28, 2905-2922.e5.	6.4	54
60	Inhibition of Dopamine and Norepinephrine Reuptake Produces Additive Effects on Energy Balance in Lean and Obese Mice. Neuropsychopharmacology, 2007, 32, 822-834.	5.4	53
61	Is ghrelin a signal for the development of metabolic systems?. Journal of Clinical Investigation, 2005, 115, 3393-3397.	8.2	52
62	Developmental Programming Mediated by Complementary Roles of Imprinted Grb10 in Mother and Pup. PLoS Biology, 2014, 12, e1001799.	5.6	49
63	Characterization of brainstem peptide YY (PYY) neurons. Journal of Comparative Neurology, 2008, 506, 194-210.	1.6	47
64	Neuropeptide Y Y5 receptor protein in the cortical/limbic system and brainstem of the rat: expression on Î³-aminobutyric acid and corticotropin-releasing hormone neurons. Neuroscience, 2000, 100, 731-740.	2.3	46
65	Catecholamine Reuptake Inhibition Causes Weight Loss by Increasing Locomotor Activity and Thermogenesis. Neuropsychopharmacology, 2008, 33, 1287-1297.	5.4	45
66	Celastrol Promotes Weight Loss in Diet-Induced Obesity by Inhibiting the Protein Tyrosine Phosphatases PTP1B and TCPTP in the Hypothalamus. Journal of Medicinal Chemistry, 2018, 61, 11144-11157.	6.4	45
67	Changes of peripheral Î±-melanocyteâ€"stimulating hormone in childhood obesity. Metabolism: Clinical and Experimental, 2010, 59, 186-194.	3.4	44
68	Epigenetic control of alternative mRNA processing at the imprinted Herc3/Nap1l5 locus. Nucleic Acids Research, 2012, 40, 8917-8926.	14.5	44
69	Suppression of Basal Spontaneous Gonadotropin-Releasing Hormone Neuronal Activity during Lactation: Role of Inhibitory Effects of Neuropeptide Y. Endocrinology, 2009, 150, 333-340.	2.8	43
70	A Hypothalamic Phosphatase Switch Coordinates Energy Expenditure with Feeding. Cell Metabolism, 2017, 26, 375-393.e7.	16.2	42
71	Deletion of hepatic carbohydrate response element binding protein (ChREBP) impairs glucose homeostasis and hepatic insulin sensitivity in mice. Molecular Metabolism, 2017, 6, 1381-1394.	6.5	42
72	Pancreatic polypeptide in obese children before and after weight loss. International Journal of Obesity, 2006, 30, 1476-1481.	3.4	41

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73	Abdominal fat analyzed by DEXA scan reflects visceral body fat and improves the phenotype description and the assessment of metabolic risk in mice. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E635-E643.	3.5	41
74	Hypertension in obesity: is leptin the culprit?. Trends in Neurosciences, 2013, 36, 121-132.	8.6	41
75	Coordinated targeting of cold and nicotinic receptors synergistically improves obesity and type 2 diabetes. Nature Communications, 2018, 9, 4304.	12.8	41
76	Zonisamide Prevents Olanzapine-Associated Hyperphagia, Weight Gain, and Elevated Blood Glucose in Rats. Neuropsychopharmacology, 2008, 33, 2922-2933.	5.4	40
77	Î±-Melanocyte stimulating hormone promotes muscle glucose uptake via melanocortin 5 receptors. Molecular Metabolism, 2016, 5, 807-822.	6.5	39
78	Celastrol-Induced Weight Loss Is Driven by Hypophagia and Independent From UCP1. Diabetes, 2018, 67, 2456-2465.	0.6	39
79	Leptin reduces food intake via a dopamine D2 receptor-dependent mechanism. Molecular Metabolism, 2012, 1, 86-93.	6.5	38
80	Serotonergic pathways converge upon central melanocortin systems to regulate energy balance. Peptides, 2005, 26, 1728-1732.	2.4	32
81	A BAT-Centric Approach to the Treatment of Diabetes: Turn on the Brain. Cell Metabolism, 2016, 24, 31-40.	16.2	32
82	Leptin Signaling in the Arcuate Nucleus Reduces Insulinâ€™s Capacity to Suppress Hepatic Glucose Production in Obese Mice. Cell Reports, 2019, 26, 346-355.e3.	6.4	32
83	Paradoxical Effect of Gonadotrophinâ€Inhibiting Hormone to Negatively Regulate Neuropeptide Y Neurones in Mouse Arcuate Nucleus. Journal of Neuroendocrinology, 2013, 25, 1308-1317.	2.6	31
84	Feeding Induced by Cannabinoids Is Mediated Independently of the Melanocortin System. PLoS ONE, 2008, 3, e2202.	2.5	31
85	Evidence for differential regulation of multiple transcripts of the gonadotropin releasing hormone receptor in the ovine pituitary gland; effect of estrogen. Molecular and Cellular Endocrinology, 1998, 146, 141-149.	3.2	30
86	Modified thresholds for fibrosis risk scores in nonalcoholic fatty liver disease are necessary in the obese. Obesity Surgery, 2017, 27, 115-125.	2.1	30
87	Sex Differences in the Metabolic Effects of Testosterone in Sheep. Endocrinology, 2012, 153, 123-131.	2.8	29
88	Effects of Bariatric Surgery on Liver Function Tests in Patients with Nonalcoholic Fatty Liver Disease. Obesity Surgery, 2017, 27, 1533-1542.	2.1	29
89	Leptin increasing sympathetic nerve outflow in obesity. Adipocyte, 2012, 1, 177-181.	2.8	28
90	Shortâ€term highâ€fat diet increases the presence of astrocytes in the hypothalamus of C57<scp>BL</scp>6 mice without altering leptin sensitivity. Journal of Neuroendocrinology, 2017, 29, e12504.	2.6	28

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91	Brain Feeding Circuits after Roux-en-Y Gastric Bypass. Trends in Endocrinology and Metabolism, 2018, 29, 218-237.	7.1	26
92	To be or NUCB2, is nesfatin the answer?. Cell Metabolism, 2006, 4, 421-422.	16.2	25
93	Antagonistic roles in fetal development and adult physiology for the oppositely imprinted Grb10 and Dlk1genes. BMC Biology, 2014, 12, 771.	3.8	24
94	A Pre-Hospital Patient Education Program Improves Outcomes of Bariatric Surgery. Obesity Surgery, 2016, 26, 2074-2081.	2.1	22
95	Excess of Nerve Growth Factor in the Ovary Causes a Polycystic Ovary-Like Syndrome in Mice, which Closely Resembles Both Reproductive and Metabolic Aspects of the Human Syndrome. Endocrinology, 2014, 155, 4494-4506.	2.8	20
96	Plasticity of calcium-permeable AMPA glutamate receptors in Pro-opiomelanocortin neurons. ELife, 2017, 6, .	6.0	19
97	Resetting for the Next Generation. Molecular Cell, 2012, 48, 819-821.	9.7	18
98	Repeated weight cycling in obese mice causes increased appetite and glucose intolerance. Physiology and Behavior, 2018, 194, 184-190.	2.1	18
99	Does leptin cause an increase in blood pressure in animals and humans?. Current Opinion in Nephrology and Hypertension, 2017, 26, 20-25.	2.0	17
100	Dapagliflozin restores insulin and growth hormone secretion in obese mice. Journal of Endocrinology, 2020, 245, 1-12.	2.6	17
101	Deficient melanocortin-4 receptor causes abnormal reproductive neuroendocrine profile in female mice. Reproduction, 2017, 153, 267-276.	2.6	15
102	Mitochondrial uncoupling in the melanocortin system differentially regulates NPY and POMC neurons to promote weight-loss. Molecular Metabolism, 2017, 6, 1103-1112.	6.5	15
103	Persistent Leptin Signaling in the Arcuate Nucleus Impairs Hypothalamic Insulin Signaling and Glucose Homeostasis in Obese Mice. Neuroendocrinology, 2019, 109, 374-390.	2.5	15
104	Estrogen Transiently Increases Delayed Rectifier, Voltage-Dependent Potassium Currents in Ovine Gonadotropes. Neuroendocrinology, 1999, 69, 254-260.	2.5	14
105	Weight loss after laparoscopic adjustable gastric band and resolution of the metabolic syndrome and its components. International Journal of Obesity, 2017, 41, 902-908.	3.4	14
106	Prevention of the adverse effects of olanzapine on lipid metabolism with the antiepileptic zonisamide. Neuropharmacology, 2017, 123, 55-66.	4.1	13
107	Dietary Macronutrient Composition Directs ChREBP Isoform Expression and Glucose Metabolism in Mice. PLoS ONE, 2016, 11, e0168797.	2.5	11
108	Transcription of intragenic CpG islands influences spatiotemporal host gene pre-mRNA processing. Nucleic Acids Research, 2020, 48, 8349-8359.	14.5	10

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109	GLP-1 analogs: satiety without malaise?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R981-R982.	1.8	9
110	Short Interspersed Element (SINE) Depletion and Long Interspersed Element (LINE) Abundance Are Not Features Universally Required for Imprinting. PLoS ONE, 2011, 6, e18953.	2.5	9
111	Current and emerging pharmacotherapies for obesity in Australia. Obesity Research and Clinical Practice, 2017, 11, 501-521.	1.8	9
112	Determining the Effects of Combined Liraglutide and Phentermine on Metabolic Parameters, Blood Pressure, and Heart Rate in Lean and Obese Male Mice. Diabetes, 2019, 68, 683-695.	0.6	9
113	Imprinted Gene Expression and Function of the Dopa Decarboxylase Gene in the Developing Heart. Frontiers in Cell and Developmental Biology, 2021, 9, 676543.	3.7	9
114	Stimulation of endogenous pulsatile growth hormone secretion by activation of growth hormone secretagogue receptor reduces the fat accumulation and improves the insulin sensitivity in obese mice. FASEB Journal, 2021, 35, e21269.	0.5	9
115	Hypothalamic Regulatory Pathways and Potential Obesity Treatment Targets. Endocrine, 2006, 29, 33-48.	2.2	8
116	The role of pharmacotherapy in the prevention and treatment of paediatric metabolic syndrome â€“ Implications for long-term health. Pharmacological Research, 2012, 65, 397-401.	7.1	8
117	Î±-MSH Stimulates Glucose Uptake in Mouse Muscle and Phosphorylates Rab-GTPase-Activating Protein TBC1D1 Independently of AMPK. PLoS ONE, 2016, 11, e0157027.	2.5	8
118	Reelin is modulated by diet-induced obesity and has direct actions on arcuate proopiomelanocortin neurons. Molecular Metabolism, 2019, 26, 18-29.	6.5	6
119	Transmitter Time: Synaptic Plasticity and Metabolic Memory in the Hypothalamus. Cell Metabolism, 2012, 15, 275-276.	16.2	5
120	Coadaptation between Mother and Offspring: Why Not?. PLoS Biology, 2015, 13, e1002085.	5.6	5
121	Effects of nutritional manipulation on body composition in the developing marsupial, Macropus eugenii. Molecular and Cellular Endocrinology, 2016, 428, 148-160.	3.2	5
122	Time-Restricted Feeding Restored Insulin-Growth Hormone Balance and Improved Substrate and Energy Metabolism in MC4RKO Obese Mice. Neuroendocrinology, 2022, 112, 174-185.	2.5	5
123	Speed-dieting: dopamine agonists promote weight loss. Nature Metabolism, 2019, 1, 851-852.	11.9	4
124	Dapagliflozin partially restores reproductive function in MC4R KO obese female mice. Journal of Endocrinology, 2022, 254, 65-76.	2.6	4
125	Using intranasal lidocaine to reduce food intake. International Journal of Obesity, 2007, 31, 858-863.	3.4	1
126	Elevated Hypothalamic TCPTP in Obesity Contributes to Cellular Leptin Resistance. Cell Metabolism, 2012, 15, 925-926.	16.2	1

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127	Leptin Effects on DAT Neurons To Control Energy Homeostasis. Endocrinology, 2017, 158, 4126-4128.	2.8	1
128	Endocrinology of Fat, Metabolism, and Appetite. , 2005, , 375-390.		0
129	Chronic inflammation is associated with increased insulin resistance susceptibility in neonatally overfed mice. FASEB Journal, 2008, 22, 115-115.	0.5	0