

# Michael A Cowley

## List of Publications by Year in descending order

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129  
papers

19,988  
citations

28274

55  
h-index

13771

129  
g-index

136  
all docs

136  
docs citations

136  
times ranked

16898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Restricted Feeding Restored Insulin-Growth Hormone Balance and Improved Substrate and Energy Metabolism in MC4RKO Obese Mice. <i>Neuroendocrinology</i> , 2022, 112, 174-185.	2.5	5
2	Dapagliflozin partially restores reproductive function in MC4R KO obese female mice. <i>Journal of Endocrinology</i> , 2022, 254, 65-76.	2.6	4
3	Imprinted Gene Expression and Function of the Dopa Decarboxylase Gene in the Developing Heart. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 676543.	3.7	9
4	The melanocortin pathway and energy homeostasis: From discovery to obesity therapy. <i>Molecular Metabolism</i> , 2021, 48, 101206.	6.5	114
5	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. <i>FASEB Journal</i> , 2021, 35, e21269.	0.5	9
6	Transcription of intragenic CpG islands influences spatiotemporal host gene pre-mRNA processing. <i>Nucleic Acids Research</i> , 2020, 48, 8349-8359.	14.5	10
7	Dapagliflozin restores insulin and growth hormone secretion in obese mice. <i>Journal of Endocrinology</i> , 2020, 245, 1-12.	2.6	17
8	Speed-dieting: dopamine agonists promote weight loss. <i>Nature Metabolism</i> , 2019, 1, 851-852.	11.9	4
9	Intranasal Targeting of Hypothalamic PTP1B and TCPTP Reinstates Leptin and Insulin Sensitivity and Promotes Weight Loss in Obesity. <i>Cell Reports</i> , 2019, 28, 2905-2922.e5.	6.4	54
10	Treatment of type 2 diabetes with the designer cytokine IC7Fc. <i>Nature</i> , 2019, 574, 63-68.	27.8	55
11	Determining the Effects of Combined Liraglutide and Phentermine on Metabolic Parameters, Blood Pressure, and Heart Rate in Lean and Obese Male Mice. <i>Diabetes</i> , 2019, 68, 683-695.	0.6	9
12	Reelin is modulated by diet-induced obesity and has direct actions on arcuate proopiomelanocortin neurons. <i>Molecular Metabolism</i> , 2019, 26, 18-29.	6.5	6
13	Persistent Leptin Signaling in the Arcuate Nucleus Impairs Hypothalamic Insulin Signaling and Glucose Homeostasis in Obese Mice. <i>Neuroendocrinology</i> , 2019, 109, 374-390.	2.5	15
14	Leptin Signaling in the Arcuate Nucleus Reduces Insulin's Capacity to Suppress Hepatic Glucose Production in Obese Mice. <i>Cell Reports</i> , 2019, 26, 346-355.e3.	6.4	32
15	Brain Feeding Circuits after Roux-en-Y Gastric Bypass. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 218-237.	7.1	26
16	Celastrol Promotes Weight Loss in Diet-Induced Obesity by Inhibiting the Protein Tyrosine Phosphatases PTP1B and TCPTP in the Hypothalamus. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11144-11157.	6.4	45
17	Coordinated targeting of cold and nicotinic receptors synergistically improves obesity and type 2 diabetes. <i>Nature Communications</i> , 2018, 9, 4304.	12.8	41
18	Effects of Cadmium Exposure on DNA Methylation at Imprinting Control Regions and Genome-Wide in Mothers and Newborn Children. <i>Environmental Health Perspectives</i> , 2018, 126, 037003.	6.0	61

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19	Celastrol-Induced Weight Loss Is Driven by Hypophagia and Independent From UCP1. <i>Diabetes</i> , 2018, 67, 2456-2465.	0.6	39
20	Repeated weight cycling in obese mice causes increased appetite and glucose intolerance. <i>Physiology and Behavior</i> , 2018, 194, 184-190.	2.1	18
21	Insulin regulates POMC neuronal plasticity to control glucose metabolism. <i>ELife</i> , 2018, 7, .	6.0	85
22	Modified thresholds for fibrosis risk scores in nonalcoholic fatty liver disease are necessary in the obese. <i>Obesity Surgery</i> , 2017, 27, 115-125.	2.1	30
23	Hypothalamic Insulin Resistance in Obesity: Effects on Glucose Homeostasis. <i>Neuroendocrinology</i> , 2017, 104, 364-381.	2.5	76
24	Weight loss after laparoscopic adjustable gastric band and resolution of the metabolic syndrome and its components. <i>International Journal of Obesity</i> , 2017, 41, 902-908.	3.4	14
25	Prevention of the adverse effects of olanzapine on lipid metabolism with the antiepileptic zonisamide. <i>Neuropharmacology</i> , 2017, 123, 55-66.	4.1	13
26	Deficient melanocortin-4 receptor causes abnormal reproductive neuroendocrine profile in female mice. <i>Reproduction</i> , 2017, 153, 267-276.	2.6	15
27	Effects of Bariatric Surgery on Liver Function Tests in Patients with Nonalcoholic Fatty Liver Disease. <i>Obesity Surgery</i> , 2017, 27, 1533-1542.	2.1	29
28	Current and emerging pharmacotherapies for obesity in Australia. <i>Obesity Research and Clinical Practice</i> , 2017, 11, 501-521.	1.8	9
29	Short-term high-fat diet increases the presence of astrocytes in the hypothalamus of C57BL/6 mice without altering leptin sensitivity. <i>Journal of Neuroendocrinology</i> , 2017, 29, e12504.	2.6	28
30	Does leptin cause an increase in blood pressure in animals and humans?. <i>Current Opinion in Nephrology and Hypertension</i> , 2017, 26, 20-25.	2.0	17
31	Mitochondrial uncoupling in the melanocortin system differentially regulates NPY and POMC neurons to promote weight-loss. <i>Molecular Metabolism</i> , 2017, 6, 1103-1112.	6.5	15
32	A Hypothalamic Phosphatase Switch Coordinates Energy Expenditure with Feeding. <i>Cell Metabolism</i> , 2017, 26, 375-393.e7.	16.2	42
33	Deletion of hepatic carbohydrate response element binding protein (ChREBP) impairs glucose homeostasis and hepatic insulin sensitivity in mice. <i>Molecular Metabolism</i> , 2017, 6, 1381-1394.	6.5	42
34	Leptin Effects on DAT Neurons To Control Energy Homeostasis. <i>Endocrinology</i> , 2017, 158, 4126-4128.	2.8	1
35	Plasticity of calcium-permeable AMPA glutamate receptors in Pro-opiomelanocortin neurons. <i>ELife</i> , 2017, 6, .	6.0	19
36	α-Melanocyte stimulating hormone promotes muscle glucose uptake via melanocortin 5 receptors. <i>Molecular Metabolism</i> , 2016, 5, 807-822.	6.5	39

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37	A BAT-Centric Approach to the Treatment of Diabetes: Turn on the Brain. <i>Cell Metabolism</i> , 2016, 24, 31-40.	16.2	32
38	Effects of nutritional manipulation on body composition in the developing marsupial, <i>Macropus eugenii</i> . <i>Molecular and Cellular Endocrinology</i> , 2016, 428, 148-160.	3.2	5
39	Regulatory links between imprinted genes: evolutionary predictions and consequences. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152760.	2.6	56
40	A Pre-Hospital Patient Education Program Improves Outcomes of Bariatric Surgery. <i>Obesity Surgery</i> , 2016, 26, 2074-2081.	2.1	22
41	Î±-MSH Stimulates Glucose Uptake in Mouse Muscle and Phosphorylates Rab-GTPase-Activating Protein TBC1D1 Independently of AMPK. <i>PLoS ONE</i> , 2016, 11, e0157027.	2.5	8
42	Dietary Macronutrient Composition Directs ChREBP Isoform Expression and Glucose Metabolism in Mice. <i>PLoS ONE</i> , 2016, 11, e0168797.	2.5	11
43	Chrelin. <i>Molecular Metabolism</i> , 2015, 4, 437-460.	6.5	810
44	Hypothalamic POMC neurons promote cannabinoid-induced feeding. <i>Nature</i> , 2015, 519, 45-50.	27.8	336
45	Leptin and Insulin Act on POMC Neurons to Promote the Browning of White Fat. <i>Cell</i> , 2015, 160, 88-104.	28.9	308
46	Coadaptation between Mother and Offspring: Why Not?. <i>PLoS Biology</i> , 2015, 13, e1002085.	5.6	5
47	New insights in leptin resistance mechanisms in mice. <i>Frontiers in Neuroendocrinology</i> , 2015, 39, 59-65.	5.2	85
48	The arcuate nucleus mediates GLP-1 receptor agonist liraglutide-dependent weight loss. <i>Journal of Clinical Investigation</i> , 2014, 124, 4473-4488.	8.2	617
49	Antagonistic roles in fetal development and adult physiology for the oppositely imprinted <i>Grb10</i> and <i>Dlk1</i> genes. <i>BMC Biology</i> , 2014, 12, 771.	3.8	24
50	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. <i>Endocrinology</i> , 2014, 155, 4494-4506.	2.8	20
51	Leptin Mediates the Increase in Blood Pressure Associated with Obesity. <i>Cell</i> , 2014, 159, 1404-1416.	28.9	288
52	Estradiol Prevents Fat Accumulation and Overcomes Leptin Resistance in Female High-Fat Diet Mice. <i>Endocrinology</i> , 2014, 155, 4447-4460.	2.8	83
53	Developmental Programming Mediated by Complementary Roles of Imprinted <i>Grb10</i> in Mother and Pup. <i>PLoS Biology</i> , 2014, 12, e1001799.	5.6	49
54	Naltrexone/bupropion for obesity: An investigational combination pharmacotherapy for weight loss. <i>Pharmacological Research</i> , 2014, 84, 1-11.	7.1	139

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55	Developmental Switch of Leptin Signaling in Arcuate Nucleus Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 9982-9994.	3.6	66
56	Chronic Treatment With a Melanocortin-4 Receptor Agonist Causes Weight Loss, Reduces Insulin Resistance, and Improves Cardiovascular Function in Diet-Induced Obese Rhesus Macaques. <i>Diabetes</i> , 2013, 62, 490-497.	0.6	165
57	Leptin Stimulates Neuropeptide Y and Cocaine Amphetamine-Regulated Transcript Coexpressing Neuronal Activity in the Dorsomedial Hypothalamus in Diet-Induced Obese Mice. <i>Journal of Neuroscience</i> , 2013, 33, 15306-15317.	3.6	68
58	Hypertension in obesity: is leptin the culprit?. <i>Trends in Neurosciences</i> , 2013, 36, 121-132.	8.6	41
59	Transposable Elements Re-Wire and Fine-Tune the Transcriptome. <i>PLoS Genetics</i> , 2013, 9, e1003234.	3.5	192
60	Paradoxical Effect of Gonadotrophinâ€inhibiting Hormone to Negatively Regulate Neuropeptide Y Neurones in Mouse Arcuate Nucleus. <i>Journal of Neuroendocrinology</i> , 2013, 25, 1308-1317.	2.6	31
61	Abdominal fat analyzed by DEXA scan reflects visceral body fat and improves the phenotype description and the assessment of metabolic risk in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E635-E643.	3.5	41
62	Sex Differences in the Metabolic Effects of Testosterone in Sheep. <i>Endocrinology</i> , 2012, 153, 123-131.	2.8	29
63	Leptin increasing sympathetic nerve outflow in obesity. <i>Adipocyte</i> , 2012, 1, 177-181.	2.8	28
64	Epigenetic control of alternative mRNA processing at the imprinted <i>Herc3/Nap115</i> locus. <i>Nucleic Acids Research</i> , 2012, 40, 8917-8926.	14.5	44
65	Leptin reduces food intake via a dopamine D2 receptor-dependent mechanism. <i>Molecular Metabolism</i> , 2012, 1, 86-93.	6.5	38
66	Transmitter Time: Synaptic Plasticity and Metabolic Memory in the Hypothalamus. <i>Cell Metabolism</i> , 2012, 15, 275-276.	16.2	5
67	Elevated Hypothalamic TCPTP in Obesity Contributes to Cellular Leptin Resistance. <i>Cell Metabolism</i> , 2012, 15, 925-926.	16.2	1
68	The role of pharmacotherapy in the prevention and treatment of paediatric metabolic syndrome â€“ Implications for long-term health. <i>Pharmacological Research</i> , 2012, 65, 397-401.	7.1	8
69	Resetting for the Next Generation. <i>Molecular Cell</i> , 2012, 48, 819-821.	9.7	18
70	Leptin Action in the Dorsomedial Hypothalamus Increases Sympathetic Tone to Brown Adipose Tissue in Spite of Systemic Leptin Resistance. <i>Journal of Neuroscience</i> , 2011, 31, 12189-12197.	3.6	261
71	Elevated Hypothalamic TCPTP in Obesity Contributes to Cellular Leptin Resistance. <i>Cell Metabolism</i> , 2011, 14, 684-699.	16.2	162
72	Short Interspersed Element (SINE) Depletion and Long Interspersed Element (LINE) Abundance Are Not Features Universally Required for Imprinting. <i>PLoS ONE</i> , 2011, 6, e18953.	2.5	9

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73	Distinct physiological and behavioural functions for parental alleles of imprinted Grb10. <i>Nature</i> , 2011, 469, 534-538.	27.8	204
74	Changes of peripheral $\alpha$ -melanocyte-stimulating hormone in childhood obesity. <i>Metabolism: Clinical and Experimental</i> , 2010, 59, 186-194.	3.4	44
75	Synaptic input organization of the melanocortin system predicts diet-induced hypothalamic reactive gliosis and obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14875-14880.	7.1	370
76	Diet-Induced Obesity Causes Ghrelin Resistance in Arcuate NPY/AgRP Neurons. <i>Endocrinology</i> , 2010, 151, 4745-4755.	2.8	254
77	Early Overnutrition Results in Early-Onset Arcuate Leptin Resistance and Increased Sensitivity to High-Fat Diet. <i>Endocrinology</i> , 2010, 151, 1598-1610.	2.8	148
78	Maternally-inherited Grb10 reduces placental size and efficiency. <i>Developmental Biology</i> , 2010, 337, 1-8.	2.0	85
79	Suppression of Basal Spontaneous Gonadotropin-Releasing Hormone Neuronal Activity during Lactation: Role of Inhibitory Effects of Neuropeptide Y. <i>Endocrinology</i> , 2009, 150, 333-340.	2.8	43
80	Comparison of Combined Bupropion and Naltrexone Therapy for Obesity with Monotherapy and Placebo. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 4898-4906.	3.6	151
81	Rational Design of a Combination Medication for the Treatment of Obesity. <i>Obesity</i> , 2009, 17, 30-39.	3.0	266
82	The Role of Thermogenesis in Antipsychotic Drug-induced Weight Gain. <i>Obesity</i> , 2009, 17, 16-24.	3.0	93
83	Characterization of brainstem peptide YY (PYY) neurons. <i>Journal of Comparative Neurology</i> , 2008, 506, 194-210.	1.6	47
84	Mechanisms of Leptin Action and Leptin Resistance. <i>Annual Review of Physiology</i> , 2008, 70, 537-556.	13.1	880
85	Acute effects of leptin require PI3K signaling in hypothalamic proopiomelanocortin neurons in mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 1796-1805.	8.2	293
86	Zonisamide Prevents Olanzapine-Associated Hyperphagia, Weight Gain, and Elevated Blood Glucose in Rats. <i>Neuropsychopharmacology</i> , 2008, 33, 2922-2933.	5.4	40
87	Starvation after AgRP neuron ablation is independent of melanocortin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2687-2692.	7.1	102
88	Catecholamine Reuptake Inhibition Causes Weight Loss by Increasing Locomotor Activity and Thermogenesis. <i>Neuropsychopharmacology</i> , 2008, 33, 1287-1297.	5.4	45
89	Regulation of Agouti-Related Protein Messenger Ribonucleic Acid Transcription and Peptide Secretion by Acute and Chronic Inflammation. <i>Endocrinology</i> , 2008, 149, 4837-4845.	2.8	79
90	Feeding Induced by Cannabinoids Is Mediated Independently of the Melanocortin System. <i>PLoS ONE</i> , 2008, 3, e2202.	2.5	31

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91	Chronic inflammation is associated with increased insulin resistance susceptibility in neonatally overfed mice. <i>FASEB Journal</i> , 2008, 22, 115-115.	0.5	0
92	Excess Weight Gain during the Early Postnatal Period Is Associated with Permanent Reprogramming of Brown Adipose Tissue Adaptive Thermogenesis. <i>Endocrinology</i> , 2007, 148, 4150-4159.	2.8	91
93	GLP-1 analogs: satiety without malaise?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R981-R982.	1.8	9
94	Regulation of Central Melanocortin Signaling by Interleukin-1 $\beta$ . <i>Endocrinology</i> , 2007, 148, 4217-4225.	2.8	128
95	Appropriate Inhibition of Orexigenic Hypothalamic Arcuate Nucleus Neurons Independently of Leptin Receptor/STAT3 Signaling. <i>Journal of Neuroscience</i> , 2007, 27, 69-74.	3.6	70
96	Developmental Switch in Neuropeptide Y and Melanocortin Effects in the Paraventricular Nucleus of the Hypothalamus. <i>Neuron</i> , 2007, 56, 1103-1115.	8.1	71
97	Diet-Induced Obesity Causes Severe but Reversible Leptin Resistance in Arcuate Melanocortin Neurons. <i>Cell Metabolism</i> , 2007, 5, 181-194.	16.2	481
98	Insulin Action in AgRP-Expressing Neurons Is Required for Suppression of Hepatic Glucose Production. <i>Cell Metabolism</i> , 2007, 5, 438-449.	16.2	579
99	Inhibition of Dopamine and Norepinephrine Reuptake Produces Additive Effects on Energy Balance in Lean and Obese Mice. <i>Neuropsychopharmacology</i> , 2007, 32, 822-834.	5.4	53
100	Using intranasal lidocaine to reduce food intake. <i>International Journal of Obesity</i> , 2007, 31, 858-863.	3.4	1
101	Glucose sensing by POMC neurons regulates glucose homeostasis and is impaired in obesity. <i>Nature</i> , 2007, 449, 228-232.	27.8	598
102	To be or NUCB2, is nesfatin the answer?. <i>Cell Metabolism</i> , 2006, 4, 421-422.	16.2	25
103	Leptin Directly Activates SF1 Neurons in the VMH, and This Action by Leptin Is Required for Normal Body-Weight Homeostasis. <i>Neuron</i> , 2006, 49, 191-203.	8.1	703
104	Serotonin Reciprocally Regulates Melanocortin Neurons to Modulate Food Intake. <i>Neuron</i> , 2006, 51, 239-249.	8.1	345
105	Physiological Evidence for the Involvement of Peptide YY in the Regulation of Energy Homeostasis in Humans. <i>Obesity</i> , 2006, 14, 1562-1570.	3.0	92
106	Leptin Resistance and Obesity. <i>Obesity</i> , 2006, 14, 254S-258S.	3.0	229
107	Hypothalamic Regulatory Pathways and Potential Obesity Treatment Targets. <i>Endocrine</i> , 2006, 29, 33-48.	2.2	8
108	Pancreatic polypeptide in obese children before and after weight loss. <i>International Journal of Obesity</i> , 2006, 30, 1476-1481.	3.4	41

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109	Peptide YY(3-36) Inhibits Morning, but Not Evening, Food Intake and Decreases Body Weight in Rhesus Macaques. <i>Diabetes</i> , 2005, 54, 3198-3204.	0.6	92
110	Is ghrelin a signal for the development of metabolic systems?. <i>Journal of Clinical Investigation</i> , 2005, 115, 3393-3397.	8.2	52
111	Peptide YY Is a Regulator of Energy Homeostasis in Obese Children before and after Weight Loss. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 6386-6391.	3.6	131
112	Serotonergic pathways converge upon central melanocortin systems to regulate energy balance. <i>Peptides</i> , 2005, 26, 1728-1732.	2.4	32
113	Endocrinology of Fat, Metabolism, and Appetite. , 2005, , 375-390.		0
114	Ghrelinâ€”Satisfying a Hunger for the Mechanism. <i>Endocrinology</i> , 2004, 145, 2604-2606.	2.8	57
115	The electrophysiology of feeding circuits. <i>Trends in Endocrinology and Metabolism</i> , 2004, 15, 488-499.	7.1	127
116	Hypothalamic melanocortin neurons integrate signals of energy state. <i>European Journal of Pharmacology</i> , 2003, 480, 3-11.	3.5	68
117	Central Serotonin and Melanocortin Pathways Regulating Energy Homeostasis. <i>Annals of the New York Academy of Sciences</i> , 2003, 994, 169-174.	3.8	150
118	Electrophysiological Actions of Peripheral Hormones on Melanocortin Neurons. <i>Annals of the New York Academy of Sciences</i> , 2003, 994, 175-186.	3.8	109
119	The Distribution and Mechanism of Action of Ghrelin in the CNS Demonstrates a Novel Hypothalamic Circuit Regulating Energy Homeostasis. <i>Neuron</i> , 2003, 37, 649-661.	8.1	1,465
120	Coenzyme Q Induces Nigral Mitochondrial Uncoupling and Prevents Dopamine Cell Loss in a Primate Model of Parkinsonâ€™s Disease. <i>Endocrinology</i> , 2003, 144, 2757-2760.	2.8	112
121	Activation of Central Melanocortin Pathways by Fenfluramine. <i>Science</i> , 2002, 297, 609-611.	12.6	448
122	Gut hormone PYY3-36 physiologically inhibits food intake. <i>Nature</i> , 2002, 418, 650-654.	27.8	2,039
123	The arcuate nucleus as a conduit for diverse signals relevant to energy homeostasis. <i>International Journal of Obesity</i> , 2001, 25, S63-S67.	3.4	457
124	Leptin activates anorexigenic POMC neurons through a neural network in the arcuate nucleus. <i>Nature</i> , 2001, 411, 480-484.	27.8	2,008
125	Hypothalamic Circuitry of Neuropeptide Y Regulation of Neuroendocrine Function and Food Intake via the Y5 Receptor Subtype. <i>Neuroendocrinology</i> , 2001, 74, 106-119.	2.5	113
126	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. <i>Neuroscience</i> , 2000, 100, 731-740.	2.3	46



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127	Estrogen Transiently Increases Delayed Rectifier, Voltage-Dependent Potassium Currents in Ovine Gonadotropes. <i>Neuroendocrinology</i> , 1999, 69, 254-260.	2.5	14
128	Integration of NPY, AGRP, and Melanocortin Signals in the Hypothalamic Paraventricular Nucleus. <i>Neuron</i> , 1999, 24, 155-163.	8.1	569
129	Evidence for differential regulation of multiple transcripts of the gonadotropin releasing hormone receptor in the ovine pituitary gland; effect of estrogen. <i>Molecular and Cellular Endocrinology</i> , 1998, 146, 141-149.	3.2	30