

Christopher D Morrison

List of Publications by Year in descending order

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99
papers

7,742
citations

66343

42
h-index

53230

85
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99
docs citations

99
times ranked

9583
citing authors

#	ARTICLE	IF	CITATIONS
1	The Brain, Appetite, and Obesity. <i>Annual Review of Psychology</i> , 2008, 59, 55-92.	17.7	546
2	Cognitive impairment following high fat diet consumption is associated with brain inflammation. <i>Journal of Neuroimmunology</i> , 2010, 219, 25-32.	2.3	502
3	FGF21 is an endocrine signal of protein restriction. <i>Journal of Clinical Investigation</i> , 2014, 124, 3913-3922.	8.2	451
4	Insulin Activation of Phosphatidylinositol 3-Kinase in the Hypothalamic Arcuate Nucleus. <i>Diabetes</i> , 2003, 52, 227-231.	0.6	441
5	Structure, production and signaling of leptin. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 13-23.	3.4	307
6	Blaming the Brain for Obesity: Integration of Hedonic and Homeostatic Mechanisms. <i>Gastroenterology</i> , 2017, 152, 1728-1738.	1.3	263
7	Leptin regulates insulin sensitivity via phosphatidylinositol-3-OH kinase signaling in mediobasal hypothalamic neurons. <i>Cell Metabolism</i> , 2005, 2, 411-420.	16.2	253
8	High fat diet increases hippocampal oxidative stress and cognitive impairment in aged mice: implications for decreased Nrf2 signaling. <i>Journal of Neurochemistry</i> , 2010, 114, 1581-1589.	3.9	235
9	Effects of high fat diet on Morris maze performance, oxidative stress, and inflammation in rats: Contributions of maternal diet. <i>Neurobiology of Disease</i> , 2009, 35, 3-13.	4.4	218
10	Leptin inhibits hypothalamic <i>Npy</i> and <i>AgRP</i> gene expression via a mechanism that requires phosphatidylinositol 3-OH-kinase signaling. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 289, E1051-E1057.	3.5	186
11	Leptin receptor neurons in the dorsomedial hypothalamus are key regulators of energy expenditure and body weight, but not food intake. <i>Molecular Metabolism</i> , 2014, 3, 681-693.	6.5	165
12	Maternal obesity is necessary for programming effect of high-fat diet on offspring. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R1464-R1472.	1.8	164
13	Leptin signaling in brain: A link between nutrition and cognition?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 401-408.	3.8	164
14	Defining the Nutritional and Metabolic Context of FGF21 Using the Geometric Framework. <i>Cell Metabolism</i> , 2016, 24, 555-565.	16.2	164
15	Obesity and vulnerability of the CNS. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 395-400.	3.8	161
16	GLP-1 receptor signaling is not required for reduced body weight after RYGB in rodents. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R352-R362.	1.8	157
17	Insulin action in the brain contributes to glucose lowering during insulin treatment of diabetes. <i>Cell Metabolism</i> , 2006, 3, 67-73.	16.2	156
18	Amino acids inhibit <i>AgRP</i> gene expression via an mTOR-dependent mechanism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E165-E171.	3.5	151

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19	Metabolic Responses to Dietary Protein Restriction Require an Increase in FGF21 that Is Delayed by the Absence of GCN2. <i>Cell Reports</i> , 2016, 16, 707-716.	6.4	146
20	FGF21 Signals Protein Status to the Brain and Adaptively Regulates Food Choice and Metabolism. <i>Cell Reports</i> , 2019, 27, 2934-2947.e3.	6.4	143
21	HF diets increase hypothalamic PTP1B and induce leptin resistance through both leptin-dependent and -independent mechanisms. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E291-E299.	3.5	117
22	Orexin inputs to caudal raphé neurons involved in thermal, cardiovascular, and gastrointestinal regulation. <i>Histochemistry and Cell Biology</i> , 2005, 123, 147-156.	1.7	108
23	Glutamatergic Preoptic Area Neurons That Express Leptin Receptors Drive Temperature-Dependent Body Weight Homeostasis. <i>Journal of Neuroscience</i> , 2016, 36, 5034-5046.	3.6	108
24	Increased Hypothalamic Protein Tyrosine Phosphatase 1B Contributes to Leptin Resistance with Age. <i>Endocrinology</i> , 2007, 148, 433-440.	2.8	100
25	Intersection between metabolic dysfunction, high fat diet consumption, and brain aging. <i>Journal of Neurochemistry</i> , 2010, 114, 344-361.	3.9	86
26	Leptin receptor neurons in the mouse hypothalamus are colocalized with the neuropeptide galanin and mediate anorexigenic leptin action. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E999-E1011.	3.5	82
27	Galanin-Expressing GABA Neurons in the Lateral Hypothalamus Modulate Food Reward and Noncompulsive Locomotion. <i>Journal of Neuroscience</i> , 2017, 37, 6053-6065.	3.6	80
28	Low protein-induced increases in FGF21 drive UCP1-dependent metabolic but not thermoregulatory endpoints. <i>Scientific Reports</i> , 2017, 7, 8209.	3.3	79
29	Protein-dependent regulation of feeding and metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2015, 26, 256-262.	7.1	78
30	Homeostatic regulation of protein intake: in search of a mechanism. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R917-R928.	1.8	77
31	Neural and metabolic regulation of macronutrient intake and selection. <i>Proceedings of the Nutrition Society</i> , 2012, 71, 390-400.	1.0	71
32	Effect of Uncontrolled Diabetes on Plasma Ghrelin Concentrations and Ghrelin-Induced Feeding. <i>Endocrinology</i> , 2004, 145, 4575-4582.	2.8	67
33	The Agouti-related protein and its role in energy homeostasis. <i>Peptides</i> , 2005, 26, 1771-1781.	2.4	67
34	In vivo effects of dietary quercetin and quercetin-rich red onion extract on skeletal muscle mitochondria, metabolism, and insulin sensitivity. <i>Genes and Nutrition</i> , 2015, 10, 451.	2.5	66
35	Leptin modulates nutrient reward via inhibitory galanin action on orexin neurons. <i>Molecular Metabolism</i> , 2015, 4, 706-717.	6.5	63
36	Implications of crosstalk between leptin and insulin signaling during the development of diet-induced obesity. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 409-416.	3.8	60

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37	Melanin concentrating hormone innervation of caudal brainstem areas involved in gastrointestinal functions and energy balance. <i>Neuroscience</i> , 2005, 135, 611-625.	2.3	59
38	FGF21 and the Physiological Regulation of Macronutrient Preference. <i>Endocrinology</i> , 2020, 161, .	2.8	57
39	NOX activity in brain aging: Exacerbation by high fat diet. <i>Free Radical Biology and Medicine</i> , 2010, 49, 22-30.	2.9	56
40	Homeostatic sensing of dietary protein restriction: A case for FGF21. <i>Frontiers in Neuroendocrinology</i> , 2018, 51, 125-131.	5.2	51
41	Leucine acts in the brain to suppress food intake but does not function as a physiological signal of low dietary protein. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R310-R320.	1.8	48
42	Neurobiology of Nutrition and Obesity. <i>Nutrition Reviews</i> , 0, 65, 517-534.	5.8	46
43	Remodeling of Lipid Metabolism by Dietary Restriction of Essential Amino Acids. <i>Diabetes</i> , 2013, 62, 2635-2644.	0.6	46
44	Body Composition, Food Intake, and Energy Expenditure in a Murine Model of Roux-en-Y Gastric Bypass Surgery. <i>Obesity Surgery</i> , 2016, 26, 2173-2182.	2.1	44
45	Sympathetic innervation of the interscapular brown adipose tissue in mouse. <i>Annals of the New York Academy of Sciences</i> , 2019, 1454, 3-13.	3.8	44
46	Effects of Chromium Picolinate on Food Intake and Satiety. <i>Diabetes Technology and Therapeutics</i> , 2008, 10, 405-412.	4.4	43
47	FGF21 is required for protein restriction to extend lifespan and improve metabolic health in male mice. <i>Nature Communications</i> , 2022, 13, 1897.	12.8	41
48	RYGB Produces more Sustained Body Weight Loss and Improvement of Glycemic Control Compared with VSG in the Diet-Induced Obese Mouse Model. <i>Obesity Surgery</i> , 2017, 27, 2424-2433.	2.1	39
49	Leptin resistance and the response to positive energy balance. <i>Physiology and Behavior</i> , 2008, 94, 660-663.	2.1	37
50	Neural Control of Energy Expenditure. <i>Handbook of Experimental Pharmacology</i> , 2015, 233, 173-194.	1.8	36
51	Learning of food preferences: mechanisms and implications for obesity & metabolic diseases. <i>International Journal of Obesity</i> , 2021, 45, 2156-2168.	3.4	36
52	The PYY/Y2R-Deficient Mouse Responds Normally to High-Fat Diet and Gastric Bypass Surgery. <i>Nutrients</i> , 2019, 11, 585.	4.1	35
53	Reprogramming of defended body weight after <sc>R</sc>ouxâ€Enâ€<sc>Y</sc> gastric bypass surgery in dietâ€induced obese mice. <i>Obesity</i> , 2016, 24, 654-660.	3.0	34
54	Raised FGF-21 and Triglycerides Accompany Increased Energy Intake Driven by Protein Leverage in Lean, Healthy Individuals: A Randomised Trial. <i>PLoS ONE</i> , 2016, 11, e0161003.	2.5	34

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55	Activation of hepatic estrogen receptor- α increases energy expenditure by stimulating the production of fibroblast growth factor 21 in female mice. <i>Molecular Metabolism</i> , 2019, 22, 62-70.	6.5	32
56	Eating in mice with gastric bypass surgery causes exaggerated activation of brainstem anorexia circuit. <i>International Journal of Obesity</i> , 2016, 40, 921-928.	3.4	31
57	Combined loss of GLP-1R and Y2R does not alter progression of high-fat diet-induced obesity or response to RYGB surgery in mice. <i>Molecular Metabolism</i> , 2019, 25, 64-72.	6.5	31
58	The obesity epidemic in the face of homeostatic body weight regulation: What went wrong and how can it be fixed?. <i>Physiology and Behavior</i> , 2020, 222, 112959.	2.1	31
59	Neurobiology of Nutrition and Obesity. <i>Nutrition Reviews</i> , 2007, 65, 517-534.	5.8	31
60	Roux-en-Y Gastric Bypass Surgery-Induced Weight Loss and Metabolic Improvements Are Similar in TGR5-Deficient and Wildtype Mice. <i>Obesity Surgery</i> , 2018, 28, 3227-3236.	2.1	30
61	Sympathetic innervation of inguinal white adipose tissue in the mouse. <i>Journal of Comparative Neurology</i> , 2021, 529, 1465-1485.	1.6	30
62	Decreased food intake following overfeeding involves leptin-dependent and leptin-independent mechanisms. <i>Physiology and Behavior</i> , 2010, 100, 408-416.	2.1	29
63	Preoptic leptin signaling modulates energy balance independent of body temperature regulation. <i>ELife</i> , 2018, 7, .	6.0	28
64	Hedonics Act in Unison with the Homeostatic System to Unconsciously Control Body Weight. <i>Frontiers in Nutrition</i> , 2016, 3, 6.	3.7	25
65	Impaired branched chain amino acid metabolism alters feeding behavior and increases orexigenic neuropeptide expression in the hypothalamus. <i>Journal of Endocrinology</i> , 2012, 212, 85-94.	2.6	24
66	Hepatic autophagy contributes to the metabolic response to dietary protein restriction. <i>Metabolism: Clinical and Experimental</i> , 2016, 65, 805-815.	3.4	24
67	Physiologic Responses to Dietary Sulfur Amino Acid Restriction in Mice Are Influenced by Atf4 Status and Biological Sex. <i>Journal of Nutrition</i> , 2021, 151, 785-799.	2.9	24
68	Recent advances in understanding the role of leptin in energy homeostasis. <i>F1000Research</i> , 2020, 9, 451.	1.6	24
69	Roux-en-Y gastric bypass surgery is effective in fibroblast growth factor-21 deficient mice. <i>Molecular Metabolism</i> , 2016, 5, 1006-1014.	6.5	20
70	IGFBP-2 partly mediates the early metabolic improvements caused by bariatric surgery. <i>Cell Reports Medicine</i> , 2021, 2, 100248.	6.5	18
71	Reversible hyperphagia and obesity in rats with gastric bypass by central MC3/4R blockade. <i>Obesity</i> , 2014, 22, 1847-1853.	3.0	17
72	The Nuanced Metabolic Functions of Endogenous FGF21 Depend on the Nature of the Stimulus, Tissue Source, and Experimental Model. <i>Frontiers in Endocrinology</i> , 2021, 12, 802541.	3.5	17

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73	Regulation of body weight: Lessons learned from bariatric surgery. <i>Molecular Metabolism</i> , 2023, 68, 101517.	6.5	17
74	Innervation of skeletal muscle by leptin receptor-containing neurons. <i>Brain Research</i> , 2010, 1345, 146-155.	2.2	15
75	Capricious Cre: The Devil Is in the Details. <i>Endocrinology</i> , 2012, 153, 1005-1007.	2.8	15
76	Does gastric bypass surgery change body weight set point?. <i>International Journal of Obesity Supplements</i> , 2016, 6, S37-S43.	12.6	15
77	Selective Tissue Uptake of Agouti-Related Protein(82â€™131) and Its Modulation by Fasting. <i>Endocrinology</i> , 2005, 146, 5533-5539.	2.8	14
78	What Should I Eat and Why? The Environmental, Genetic, and Behavioral Determinants of Food Choice: Summary from a Pennington Scientific Symposium. <i>Obesity</i> , 2020, 28, 1386-1396.	3.0	12
79	Organization of sympathetic innervation of interscapular brown adipose tissue in the mouse. <i>Journal of Comparative Neurology</i> , 2022, 530, 1363-1378.	1.6	12
80	Protein Appetite at the Interface between Nutrient Sensing and Physiological Homeostasis. <i>Nutrients</i> , 2021, 13, 4103.	4.1	11
81	The Protein Leverage Hypothesis: A 2019 Update for <i>Obesity</i>. <i>Obesity</i> , 2019, 27, 1221-1221.	3.0	10
82	Endocrine responses in mares undergoing abrupt changes in nutritional management. <i>Journal of Animal Science</i> , 2006, 84, 2700-2707.	0.5	9
83	Dietary branched chain amino acids and metabolic health: when less is more. <i>Journal of Physiology</i> , 2018, 596, 555-556.	2.9	9
84	Consuming a ketogenic diet leads to altered hypoglycemic counter-regulation in mice. <i>Journal of Diabetes and Its Complications</i> , 2020, 34, 107557.	2.3	9
85	Fibroblast growth factor 21, adiposity, and macronutrient balance in a healthy, pregnant population with overweight and obesity. <i>Endocrine Research</i> , 2018, 43, 275-283.	1.2	8
86	FGF21 prevents low-protein diet-induced renal inflammation in aged mice. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, F356-F368.	2.7	8
87	Interaction Between Exercise and Leptin in the Treatment of Obesity. <i>Diabetes</i> , 2008, 57, 534-535.	0.6	7
88	Quantifying Biochemical Alterations in Brown and Subcutaneous White Adipose Tissues of Mice Using Fourier Transform Infrared Widefield Imaging. <i>Frontiers in Endocrinology</i> , 2017, 8, 121.	3.5	7
89	Response of Liver Metabolic Pathways to Ketogenic Diet and Exercise Are Not Additive. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 37-48.	0.4	5
90	Targeting the T-type calcium channel Cav3.2 in GABAergic arcuate nucleus neurons to treat obesity. <i>Molecular Metabolism</i> , 2021, 54, 101391.	6.5	5

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91	Gastric bypass surgery in lean adolescent mice prevents diet-induced obesity later in life. <i>Scientific Reports</i> , 2019, 9, 7881.	3.3	4
92	Lateral hypothalamic galanin neurons are activated by stress and blunt anxiety-like behavior in mice. <i>Behavioural Brain Research</i> , 2022, 423, 113773.	2.2	4
93	Amino acid-dependent regulation of food intake: is protein more than the sum of its parts?. <i>Journal of Physiology</i> , 2013, 591, 5417-5418.	2.9	3
94	Glial acetate metabolism is increased following a 72-h fast in metabolically healthy men and correlates with susceptibility to hypoglycemia. <i>Acta Diabetologica</i> , 2018, 55, 1029-1036.	2.5	2
95	Iso-caloric low protein diet in a mouse model for vanishing white matter does not impact ISR deregulation in brain, but reveals ISR deregulation in liver. <i>Nutritional Neuroscience</i> , 2022, 25, 1219-1230.	3.1	2
96	Dynamic effects of dietary protein restriction on body weights, food consumption, and protein preference in <i>C57BL/6J</i> and <i>Fgf21</i> ^{−/−} mice. <i>Journal of the Experimental Analysis of Behavior</i> , 2022, 117, 346-362.	1.1	2
97	FGF21, not GCN2, influences bone morphology due to dietary protein restrictions. <i>Bone Reports</i> , 2020, 12, 100241.	0.4	1
98	Leptin receptor signaling is required for intact hypoglycemic counterregulation: A study in male Zucker rats. <i>Journal of Diabetes and Its Complications</i> , 2021, 35, 107994.	2.3	1
99	Leptin treatment prevents impaired hypoglycemic counterregulation induced by exposure to severe caloric restriction or exposure to recurrent hypoglycemia. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021, 235, 102853.	2.8	1