Giles See How Yeo

List of Publications by Year
in descending order

132 papers	16,777 citations	20797 60 h-index	15716 125 g-index
145 all docs	145 docs citations	145 times ranked	19309 citing authors

#	Article	IF	Citations
1	Clinical Spectrum of Obesity and Mutations in the Melanocortin 4 Receptor Gene. New England Journal of Medicine, 2003, 348, 1085-1095.	13.9	1,475
2	The Obesity-Associated FTO Gene Encodes a 2-Oxoglutarate-Dependent Nucleic Acid Demethylase. Science, 2007, 318, 1469-1472.	6.0	1,305
3	A frameshift mutation in MC4R associated with dominantly inherited human obesity. Nature Genetics, 1998, 20, 111-112.	9.4	1,026
4	Dominant and recessive inheritance of morbid obesity associated with melanocortin 4 receptor deficiency. Journal of Clinical Investigation, 2000, 106, 271-279.	3.9	696
5	A de novo mutation affecting human TrkB associated with severe obesity and developmental delay. Nature Neuroscience, 2004, 7, 1187-1189.	7.1	499
6	The bigger picture of FTOâ€”the first GWAS-identified obesity gene. Nature Reviews Endocrinology, 2014, 10, 51-61.	4.3	490
7	Somatic mutations in ATP1A1 and CACNA1D underlie a common subtype of adrenal hypertension. Nature Genetics, 2013, 45, 1055-1060.	9.4	446
8	The genetics of obesity: from discovery to biology. Nature Reviews Genetics, 2022, 23, 120-133.	7.7	425
9	Hyperphagia, Severe Obesity, Impaired Cognitive Function, and Hyperactivity Associated With Functional Loss of One Copy of the Brain-Derived Neurotrophic Factor (BDNF) Gene. Diabetes, 2006, 55, 3366-3371.	0.3	421
10	PPAR gamma 2 Prevents Lipotoxicity by Controlling Adipose Tissue Expandability and Peripheral Lipid Metabolism. PLoS Genetics, 2007, 3, e64.	1.5	346
11	Transcriptome analysis of embryonic and adult sensory axons reveals changes in mRNA repertoire localization. Rna, 2011, 17, 85-98.	1.6	343
12	Loss-of-Function Mutation in the Dioxygenase-Encoding FTO Gene Causes Severe Growth Retardation and Multiple Malformations. American Journal of Human Genetics, 2009, 85, 106-111.	2.6	340
13	The relationship between glial cell mechanosensitivity and foreign body reactions in the central nervous system. Biomaterials, 2014, 35, 3919-3925.	5.7	331
14	GDF15 mediates the effects of metformin on body weight and energy balance. Nature, 2020, 578, 444-448.	13.7	326
15	Overlap of Endocrine Hormone Expression in the Mouse Intestine Revealed by Transcriptional Profiling and Flow Cytometry. Endocrinology, 2012, 153, 3054-3065.	1.4	317
16	Subcellular Profiling Reveals Distinct and Developmentally Regulated Repertoire of Growth Cone mRNAs. Journal of Neuroscience, 2010, 30, 15464-15478.	1.7	299
17	A deletion of the HBII-85 class of small nucleolar RNAs (snoRNAs) is associated with hyperphagia, obesity and hypogonadism. Human Molecular Genetics, 2009, 18, 3257-3265.	1.4	253
18	A missense mutation disrupting a dibasic prohormone processing site in pro-opiomelanocortin (POMC) increases susceptibility to early-onset obesity through a novel molecular mechanism. Human Molecular Genetics, 2002, 11, 1997-2004.	1.4	249

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19	Serotonin Activates the Hypothalamic-Pituitary-Adrenal Axis via Serotonin 2C Receptor Stimulation. Journal of Neuroscience, 2007, 27, 6956-6964.	1.7	243
20	Unraveling the brain regulation of appetite: lessons from genetics. Nature Neuroscience, 2012, 15, 1343-1349.	7.1	239
21	Serotonin 5-HT2C Receptor Agonist Promotes Hypophagia via Downstream Activation of Melanocortin 4 Receptors. Endocrinology, 2008, 149, 1323-1328.	1.4	237
22	A POMC variant implicates Î²-melanocyte-stimulating hormone in the control of human energy balance. Cell Metabolism, 2006, 3, 135-140.	7.2	207
23	Mutations in the human melanocortin-4 receptor gene associated with severe familial obesity disrupts receptor function through multiple molecular mechanisms. Human Molecular Genetics, 2003, 12, 561-574.	1.4	201
24	Proopiomelanocortin and Energy Balance: Insights from Human and Murine Genetics. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 2557-2562.	1.8	197
25	Minireview: Human Obesityâ€"Lessons from Monogenic Disorders. Endocrinology, 2003, 144, 3757-3764.	1.4	194
26	Characterization of the human, mouse and rat PGC1beta (peroxisome-proliferator-activated) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T	1.7	185
27	Glucose-Dependent Insulinotropic Polypeptide Receptor-Expressing Cells in the Hypothalamus Regulate Food Intake. Cell Metabolism, 2019, 30, 987-996.e6.	7.2	171
28	Transcriptomic profiling of pancreatic alpha, beta and delta cell populations identifies delta cells as a principal target for ghrelin in mouse islets. Diabetologia, 2016, 59, 2156-2165.	2.9	169
29	Trim28 Haploinsufficiency Triggers Bi-stable Epigenetic Obesity. Cell, 2016, 164, 353-364.	13.5	161
30	Hypothalamic-Specific Manipulation of Fto, the Ortholog of the Human Obesity Gene FTO, Affects Food Intake in Rats. PLoS ONE, 2010, 5, e8771.	1.1	151
31	Role for the obesity-related FTO gene in the cellular sensing of amino acids. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2557-2562.	3.3	150
32	Selection of cervical keratinocytes containing integrated HPV16 associates with episome loss and an endogenous antiviral response. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3822-3827.	3.3	134
33	Adult Onset Global Loss of the Fto Gene Alters Body Composition and Metabolism in the Mouse. PLoS Genetics, 2013, 9, e1003166.	1.5	129
34	Heterogeneity of hypothalamic pro-opiomelanocortin-expressing neurons revealed by single-cell RNA sequencing. Molecular Metabolism, 2017, 6, 383-392.	3.0	128
35	Leptin and the Control of Body Weight: A Review of Its Diverse Central Targets, Signaling Mechanisms, and Role in the Pathogenesis of Obesity. Obesity, 2010, 18, 221-229.	1.5	125
36	A Deletion in the Canine POMC Gene Is Associated with Weight and Appetite in Obesity-Prone Labrador Retriever Dogs. Cell Metabolism, 2016, 23, 893-900.	7.2	117

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37	Marginal zone B cells control the response of follicular helper T cells to a high-cholesterol diet. Nature Medicine, 2017, 23, 601-610.	15.2	114
38	The melanocortin pathway and energy homeostasis: From discovery to obesity therapy. Molecular Metabolism, 2021, 48, 101206.	3.0	114
39	BarraCUDA - a fast short read sequence aligner using graphics processing units. BMC Research Notes, 2012, 5, 27.	0.6	112
40	Novel Leptin-Regulated Genes Revealed by Transcriptional Profiling of the Hypothalamic Paraventricular Nucleus. Journal of Neuroscience, 2008, 28, 12419-12426.	1.7	105
41	High fat diet impairs the function of glucagon-like peptide-1 producing L-cells. Peptides, 2016, 77, 21-27.	1.2	104
42	Endoplasmic Reticulum Thiol Oxidase Deficiency Leads to Ascorbic Acid Depletion and Noncanonical Scurvy in Mice. Molecular Cell, 2012, 48, 39-51.	4.5	103
43	The role of melanocortin signalling in the control of body weight: evidence from human and murine genetic models. QJM - Monthly Journal of the Association of Physicians, 2000, 93, 7-14.	0.2	102
44	Obesity therapy: altering the energy intake-and-expenditure balance sheet. Nature Reviews Drug Discovery, 2002, 1, 276-286.	21.5	98
45	Prevalence of Loss-of-Function FTO Mutations in Lean and Obese Individuals. Diabetes, 2010, 59, 311-318.	0.3	93
46	A truncation mutation in TBC1D4 in a family with acanthosis nigricans and postprandial hyperinsulinemia. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9350-9355.	3.3	88
47	Transcript and metabolite analysis of the effects of tamoxifen in rat liver reveals inhibition of fatty acid synthesis in the presence of hepatic steatosis. FASEB Journal, 2005, 19, 1108-1119.	0.2	87
48	Chronic Activation of Î³2 AMPK Induces Obesity and Reduces Î² Cell Function. Cell Metabolism, 2016, 23, 821-836.	7.2	87
49	Obesity and FTO: Changing Focus at a Complex Locus. Cell Metabolism, 2014, 20, 710-718.	7.2	84
50	Generation and Analysis of 25 Mb of Genomic DNA from the Pufferfish Fugu rubripes by Sequence Scanning. Genome Research, 1999, 9, 960-971.	2.4	81
51	From GWAS to biology: lessons from FTO. Annals of the New York Academy of Sciences, 2011, 1220, 162-171.	1.8	81
52	Hypothalamic loss of Snord116 recapitulates the hyperphagia of Prader-Willi syndrome. Journal of Clinical Investigation, 2018, 128, 960-969.	3.9	81
53	The Effects of Proopiomelanocortin Deficiency on Murine Adrenal Development and Responsiveness to Adrenocorticotropin. Endocrinology, 2004, 145, 4721-4727.	1.4	80
54	Leptin Deficiency Unmasks the Deleterious Effects of Impaired Peroxisome Proliferator-Activated Receptor Â Function (P465L PPARÂ) in Mice. Diabetes, 2006, 55, 2669-2677.	0.3	80

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55	POMC neuronal heterogeneity in energy balance and beyond: an integrated view. Nature Metabolism, 2021, 3, 299-308.	5.1	80
56	Single cell transcriptomic profiling of large intestinal enteroendocrine cells in mice â€“ Identification of selective stimuli for insulin-like peptide-5 and glucagon-like peptide-1 co-expressing cells. Molecular Metabolism, 2019, 29, 158-169.	3.0	77
57	Functional Characterization and Structural Modeling of Obesity Associated Mutations in the Melanocortin 4 Receptor. Endocrinology, 2009, 150, 114-125.	1.4	75
58	Maternal Obesity in Pregnancy Developmentally Programs Adipose Tissue Inflammation in Young, Lean Male Mice Offspring. Endocrinology, 2016, 157, 4246-4256.	1.4	73
59	Human embryonic genome activation initiates at the one-cell stage. Cell Stem Cell, 2022, 29, 209-216.e4.	5.2	71
60	Where to go with FTO?. Trends in Endocrinology and Metabolism, 2011, 22, 53-59.	3.1	65
61	Proopiomelanocortin-Deficient Mice Are Hypersensitive to the Adverse Metabolic Effects of Glucocorticoids. Diabetes, 2005, 54, 2269-2276.	0.3	63
62	The hypothalamus and metabolism: integrating signals to control energy and glucose homeostasis. Current Opinion in Pharmacology, 2013, 13, 970-976.	1.7	62
63	Contribution of Variants in the Small Heterodimer Partner Gene to Birthweight, Adiposity, and Insulin Levels: Mutational Analysis and Association Studies in Multiple Populations. Diabetes, 2003, 52, 1288-1291.	0.3	61
64	Fat mass and obesity-related (FTO) shuttles between the nucleus and cytoplasm. Bioscience Reports, 2014, 34, .	1.1	61
65	Microarray Analysis of Insulin and Insulin-like Growth Factor-1 (IGF-1) Receptor Signaling Reveals the Selective Up-regulation of the Mitogen Heparin-binding EGF-like Growth Factor by IGF-1. Journal of Biological Chemistry, 2002, 277, 42480-42487.	1.6	59
66	Selective rab11 transport and the intrinsic regenerative ability of CNS axons. ELife, 2017, 6, .	2.8	59
67	MC3R links nutritional state to childhood growth and the timing of puberty. Nature, 2021, 599, 436-441.	13.7	59
68	Obesity-associated gene TMEM18 has a role in the central control of appetite and body weight regulation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9421-9426.	3.3	57
69	Identification of Chlamydia trachomatis antigens recognized by human CD4+ T lymphocytes by screening an expression library. European Journal of Immunology, 2001, 31, 1513-1522.	1.6	55
70	Genetic Variants in Human Sterol Regulatory Element Binding Protein-1c in Syndromes of Severe Insulin Resistance and Type 2 Diabetes. Diabetes, 2004, 53, 842-846.	0.3	55
71	The CART gene and human obesity: mutational analysis and population genetics. Diabetes, 2000, 49, 872-875.	0.3	54
72	Loss-of-function mutations in the melanocortin 4 receptor in a UK birth cohort. Nature Medicine, 2021, 27, 1088-1096.	15.2	49

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73	The biology of FTO: from nucleic acid demethylase to amino acid sensor. Diabetologia, 2013, 56, 2113-2121.	2.9	46
74	The role of the FTO (Fat Mass and Obesity Related) locus in regulating body size and composition. Molecular and Cellular Endocrinology, 2014, 397, 34-41.	1.6	46
75	Cloning and sequencing of complement component C9 and its linkage to DOC-2 in the pufferfish Fugu rubripes. Gene, 1997, 200, 203-211.	1.0	44
76	Diet-induced gene expression of isolated pancreatic islets from a polygenic mouse model of the metabolic syndrome. Diabetologia, 2010, 53, 309-320.	2.9	44
77	Functional responses of human ??1 adrenoceptors with defined haplotypes for the common 389R>G and 49S>G polymorphisms. Pharmacogenetics and Genomics, 2004, 14, 343-349.	5.7	43
78	Deletion of Codons 88â€“92 of the Melanocortin-4 Receptor Gene: A Novel Deleterious Mutation in an Obese Female. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 5841-5845.	1.8	41
79	p53 in AgRP neurons is required for protection against diet-induced obesity via JNK1. Nature Communications, 2018, 9, 3432.	5.8	41
80	A survey of the mouse hindbrain in the fed and fasted states using single-nucleus RNA sequencing. Molecular Metabolism, 2021, 53, 101240.	3.0	41
81	Studies of the Peptide YY and Neuropeptide Y2 Receptor Genes in Relation to Human Obesity and Obesity-Related Traits. Diabetes, 2004, 53, 2461-2466.	0.3	40
82	Activation of the hypothalamicâ€“pituitaryâ€“adrenal axis by exogenous and endogenous GDF15. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	40
83	Low Circulating Levels of IGF-1 in Healthy Adults Are Associated With Reduced Î²-Cell Function, Increased Intramyocellular Lipid, and Enhanced Fat Utilization During Fasting. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 2198-2207.	1.8	39
84	Identification of the Global Transcriptomic Response of the Hypothalamic Arcuate Nucleus to Fasting and Leptin. Journal of Neuroendocrinology, 2010, 22, 915-925.	1.2	38
85	Melanocortin receptors weigh in. Nature Medicine, 2004, 10, 351-352.	15.2	35
86	MCH Regulates SIRT1/FoxO1 and Reduces POMC Neuronal Activity to Induce Hyperphagia, Adiposity, and Glucose Intolerance. Diabetes, 2019, 68, 2210-2222.	0.3	34
87	Transcriptome Pathway Analysis of Pathological and Physiological Aldosterone-Producing Human Tissues. Hypertension, 2016, 68, 1424-1431.	1.3	33
88	Nutritional regulation of oligodendrocyte differentiation regulates perineuronal net remodeling in the median eminence. Cell Reports, 2021, 36, 109362.	2.9	33
89	Contributions of Function-Altering Variants in Genes Implicated in Pubertal Timing and Body Mass for Self-Limited Delayed Puberty. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 649-659.	1.8	31
90	Impaired Autophagy in CD11b ⁺ Dendritic Cells Expands CD4 ⁺ Regulatory T Cells and Limits Atherosclerosis in Mice. Circulation Research, 2019, 125, 1019-1034.	2.0	31

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91	A coding variant inFTOconfers susceptibility to thiopurine-induced leukopenia in East Asian patients with IBD. Gut, 2017, 66, 1926-1935.	6.1	29
92	Kinetic analysis of FTO (fat mass and obesity-associated) reveals that it is unlikely to function as a sensor for 2-oxoglutarate. Biochemical Journal, 2012, 444, 183-187.	1.7	27
93	5-HT2A and 5-HT2C receptors as hypothalamic targets of developmental programming in male rats. DMM Disease Models and Mechanisms, 2016, 9, 401-12.	1.2	25
94	Thyroid Hormone Receptor Beta in the Ventromedial Hypothalamus Is Essential for the Physiological Regulation of Food Intake and Body Weight. Cell Reports, 2017, 19, 2202-2209.	2.9	25
95	Maternal protein restriction affects gene expression profiles in the kidney at weaning with implications for the regulation of renal function and lifespan. Clinical Science, 2010, 119, 373-387.	1.8	24
96	Central leptin and ghrelin signalling: Comparing and contrasting their mechanisms of action in the brain. Reviews in Endocrine and Metabolic Disorders, 2011, 12, 197-209.	2.6	23
97	Genetics of obesity: can an old dog teach us new tricks?. Diabetologia, 2017, 60, 778-783.	2.9	23
98	FTO is necessary for the induction of leptin resistance by high-fat feeding. Molecular Metabolism, 2015, 4, 287-298.	3.0	22
99	Ageing is associated with molecular signatures of inflammation and type 2 diabetes in rat pancreatic islets. Diabetologia, 2016, 59, 502-511.	2.9	20
100	TCR usage, gene expression and function of two distinct FOXP3⁺Treg subsets within CD4⁺CD25^{hi} T cells identified by expression of CD39 and CD45RO. Immunology and Cell Biology, 2016, 94, 293-305.	1.0	19
101	Functional heterogeneity of POMC neurons relies on mTORC1 signaling. Cell Reports, 2021, 37, 109800.	2.9	19
102	Neurochemical Characterization of Brainstem Pro-Opiomelanocortin Cells. Endocrinology, 2020, 161, .	1.4	18
103	Tachykinin-1 in the Central Nervous System Regulates Adiposity in Rodents. Endocrinology, 2015, 156, 1714-1723.	1.4	17
104	Past, present and future strategies to study the genetics of body weight regulation. Briefings in Functional Genomics & Proteomics, 2002, 1, 290-304.	3.8	15
105	SnapShot: The Hormonal Control of Food Intake. Cell, 2008, 135, 572.e1-572.e2.	13.5	15
106	FTO Biology and Obesity: Why Do a Billion of Us Weigh 3 kg More?. Frontiers in Endocrinology, 2011, 2, 4.	1.5	14
107	FTO and Obesity: A Problem for a Billion People. Journal of Neuroendocrinology, 2012, 24, 393-394.	1.2	14
108	Maternal diet amplifies the hepatic aging trajectory of Cidea in male mice and leads to the development of fatty liver. FASEB Journal, 2014, 28, 2191-2201.	0.2	14

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109	High Coexpression of the Ghrelin and LEAP2 Receptor GHSR With Pancreatic Polypeptide in Mouse and Human Islets. Endocrinology, 2021, 162, .	1.4	14
110	Central leptin signalling: Beyond the arcuate nucleus. Autonomic Neuroscience: Basic and Clinical, 2010, 156, 8-14.	1.4	13
111	GDF15 and energy balance: homing in on a mechanism. Nature Medicine, 2017, 23, 1119-1120.	15.2	13
112	Adult-onset hyperinsulinaemic hypoglycaemia in clinical practice: diagnosis, aetiology and management. Endocrine Connections, 2017, 6, 540-548.	0.8	12
113	Uncovering the biology of FTO. Molecular Metabolism, 2012, 1, 32-36.	3.0	11
114	Impaired prohormone processing: a grand unified theory for features of Prader-Willi syndrome?. Journal of Clinical Investigation, 2016, 127, 98-99.	3.9	10
115	Sirt3 in POMC neurons controls energy balance in a sex- and diet-dependent manner. Redox Biology, 2021, 41, 101945.	3.9	9
116	Attractin' more attention â€“ new pieces in the obesity puzzle?. Biochemical Journal, 2003, 376, e7-e8.	1.7	8
117	The expression of dynein light chain DYNLL1 (LC8-1) is persistently downregulated in glaucomatous rat retinal ganglion cells. Experimental Eye Research, 2011, 92, 138-146.	1.2	8
118	Transcriptional signature of prion-induced neurotoxicity in a Drosophila model of transmissible mammalian prion disease. Biochemical Journal, 2020, 477, 833-852.	1.7	8
119	Where next for GWAS?. Briefings in Functional Genomics, 2011, 10, 51-51.	1.3	6
120	Murine neuronatin deficiency is associated with a hypervariable food intake and bimodal obesity. Scientific Reports, 2021, 11, 17571.	1.6	5
121	Glucose in the hypothalamic paraventricular nucleus regulates GLP-1 release. JCI Insight, 2020, 5, .	2.3	5
122	Finding genes that control body weight. Science, 2021, 373, 30-31.	6.0	4
123	Is calorie labelling on menus the solution to obesity?. Nature Reviews Endocrinology, 0, , .	4.3	4
124	Central melanocortin signaling regulates cholesterol. Nature Neuroscience, 2010, 13, 779-780.	7.1	3
125	Melanocortin receptors and energy homeostasis. Current Opinion in Endocrinology, Diabetes and Obesity, 2005, 12, 205-210.	0.6	2
126	DEFLATE Compression Algorithm Corrects for Overestimation of Phylogenetic Diversity by Grantham Approach to Single-Nucleotide Polymorphism Classification. International Journal of Molecular Sciences, 2014, 15, 8491-8508.	1.8	1

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127	Developmental programming of appetite and growth in male rats increases hypothalamic serotonin (5-HT)5A receptor expression and sensitivity. International Journal of Obesity, 2020, 44, 1946-1957.	1.6	1
128	Identification of Chlamydia trachomatis antigens recognized by human CD4+ T lymphocytes by screening an expression library. , 2001, 31, 1513.		1
129	PP2Ce: Fat and stressed out?. Molecular Metabolism, 2013, 2, 325-326.	3.0	0
130	The Role of the GWAS Identified FTO Locus in Regulating Body Size and Composition. , 2014, , 57-72.		0
131	Are my genes to blame when my jeans donâ€™t fit?. , 2014, , 12-13.		0
132	New molecular techniques for exploring neuronal appetite pathways. Current Opinion in Endocrine and Metabolic Research, 2022, 22, 100309.	0.6	0