Rudolph L Leibel

List of Publications by Year
in descending order

77 papers	8,253 citations	109321 35 h-index	71685 76 g-index
80 all docs	80 docs citations	80 times ranked	10468 citing authors

#	Article	IF	Citations
1	Changes in Energy Expenditure Resulting from Altered Body Weight. New England Journal of Medicine, 1995, 332, 621-628.	27.0	1,771
2	Low-dose leptin reverses skeletal muscle, autonomic, and neuroendocrine adaptations to maintenance of reduced weight. Journal of Clinical Investigation, 2005, 115, 3579-3586.	8.2	486
3	Obesity Pathogenesis: An Endocrine Society Scientific Statement. Endocrine Reviews, 2017, 38, 267-296.	20.1	437
4	Long-term persistence of adaptive thermogenesis in subjects who have maintained a reduced body weight. American Journal of Clinical Nutrition, 2008, 88, 906-912.	4.7	360
5	The gut microbiota in human energy homeostasis and obesity. Trends in Endocrinology and Metabolism, 2015, 26, 493-501.	7.1	350
6	Leptin reverses weight lossâ€“induced changes in regional neural activity responses to visual food stimuli. Journal of Clinical Investigation, 2008, 118, 2583-91.	8.2	325
7	MC4R-dependent suppression of appetite by bone-derived lipocalin 2. Nature, 2017, 543, 385-390.	27.8	299
8	Ketogenic Diets Alter the Gut Microbiome Resulting in Decreased Intestinal Th17 Cells. Cell, 2020, 181, 1263-1275.e16.	28.9	292
9	Regulation ofFto/Ftmgene expression in mice and humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1185-R1196.	1.8	270
10	Effects of changes in body weight on carbohydrate metabolism, catecholamine excretion, and thyroid function. American Journal of Clinical Nutrition, 2000, 71, 1421-1432.	4.7	237
11	Effects of Weight Change on Plasma Leptin Concentrations and Energy Expenditure1. Journal of Clinical Endocrinology and Metabolism, 1997, 82, 3647-3654.	3.6	223
12	20 YEARS OF LEPTIN: Role of leptin in energy homeostasis in humans. Journal of Endocrinology, 2014, 223, T83-T96.	2.6	199
13	Effects of experimental weight perturbation on skeletal muscle work efficiency in human subjects. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 285, R183-R192.	1.8	197
14	Human oocytes reprogram adult somatic nuclei of a type 1 diabetic to diploid pluripotent stem cells. Nature, 2014, 510, 533-536.	27.8	189
15	Genome-wide meta-analysis uncovers novel loci influencing circulating leptin levels. Nature Communications, 2016, 7, 10494.	12.8	153
16	The Role of Leptin in the Control of Body Weight. Nutrition Reviews, 2002, 60, S15-S19.	5.8	151
17	Hypomorphism for RPGRIP1L, a Ciliary Gene Vicinal to the FTO Locus, Causes Increased Adiposity in Mice. Cell Metabolism, 2014, 19, 767-779.	16.2	145
18	The Physiology of Body Weight Regulation: Relevance to the Etiology of Obesity in Children. Pediatrics, 1998, 101, 525-539.	2.1	135

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19	Cut-like Homeobox 1 (CUX1) Regulates Expression of the Fat Mass and Obesity-associated and Retinitis Pigmentosa GTPase Regulator-interacting Protein-1-like (RPGRIP1L) Genes and Coordinates Leptin Receptor Signaling. Journal of Biological Chemistry, 2011, 286, 2155-2170.	3.4	129
20	Deficiency in prohormone convertase PC1 impairs prohormone processing in Prader-Willi syndrome. Journal of Clinical Investigation, 2016, 127, 293-305.	8.2	120
21	Leptin reverses declines in satiation in weight-reduced obese humans. American Journal of Clinical Nutrition, 2012, 95, 309-317.	4.7	103
22	FOXO1 inhibition yields functional insulin-producing cells in human gut organoid cultures. Nature Communications, 2014, 5, 4242.	12.8	99
23	Molecular pathophysiology of metabolic effects of antipsychotic medications. Trends in Endocrinology and Metabolism, 2014, 25, 593-600.	7.1	95
24	A Missing Link in Body Weight Homeostasis: The Catabolic Signal of the Overfed State. Cell Metabolism, 2014, 20, 565-572.	16.2	87
25	The subgingival microbiome, systemic inflammation and insulin resistance: The Oral Infections, Glucose Intolerance and Insulin Resistance Study. Journal of Clinical Periodontology, 2017, 44, 255-265.	4.9	84
26	Hypomorphism of Fto and Rpgrip1l causes obesity in mice. Journal of Clinical Investigation, 2016, 126, 1897-1910.	8.2	80
27	Glucose and Lipid Homeostasis and Inflammation in Humans Following an Isocaloric Ketogenic Diet. Obesity, 2019, 27, 971-981.	3.0	75
28	Î²-Cell Replacement in Mice Using Human Type 1 Diabetes Nuclear Transfer Embryonic Stem Cells. Diabetes, 2018, 67, 26-35.	0.6	74
29	Models of energy homeostasis in response to maintenance of reduced body weight. Obesity, 2016, 24, 1620-1629.	3.0	73
30	FTO genotype impacts food intake and corticolimbic activation. American Journal of Clinical Nutrition, 2018, 107, 145-154.	4.7	60
31	Retinoic acid receptor signaling is required to maintain glucoseâ€stimulated insulin secretion and Î²â€cell mass. FASEB Journal, 2015, 29, 671-683.	0.5	52
32	Effects of weight loss and leptin on skeletal muscle in human subjects. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1259-R1266.	1.8	42
33	Biologic Responses to Weight Loss and Weight Regain: Report From an American Diabetes Association Research Symposium. Diabetes, 2015, 64, 2299-2309.	0.6	41
34	Loss of MAGEL2 in Prader-Willi syndrome leads to decreased secretory granule and neuropeptide production. JCI Insight, 2020, 5, .	5.0	40
35	The FTO Gene and Measured Food Intake in 5â€to 10â€Yearâ€Old Children Without Obesity. Obesity, 2019, 27, 1023-1029.	3.0	39
36	Effects of Exogenous Gonadal Steroids on Leptin Homeostasis in Rats. Obesity, 1999, 7, 586-592.	4.0	38

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37	Respective Contributions of Maternal Insulin Resistance and Diet to Metabolic and Hypothalamic Phenotypes of Progeny. Obesity, 2011, 19, 492-499.	3.0	34
38	Ciliary gene RPGRIP1L is required for hypothalamic arcuate neuron development. JCI Insight, 2019, 4, .	5.0	34
39	Effects of Leptin Receptor Mutation onAgrpGene Expression in Fed and Fasted Lean and Obese (LA/N-faf) Rats1. Endocrinology, 2000, 141, 2465-2471.	2.8	33
40	Triiodothyronine and leptin repletion in humans similarly reverse weight-loss-induced changes in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E771-E779.	3.5	29
41	A role for foregut tyrosine metabolism in glucose tolerance. Molecular Metabolism, 2019, 23, 37-50.	6.5	29
42	Induced pluripotent stem cells (iPSC) created from skin fibroblasts of patients with Prader-Willi syndrome (PWS) retain the molecular signature of PWS. Stem Cell Research, 2016, 17, 526-530.	0.7	28
43	The threshold shift paradigm of obesity: evidence from surgically induced weight loss. American Journal of Clinical Nutrition, 2014, 100, 996-1002.	4.7	27
44	Loss of the imprinted, non-coding Snord116 gene cluster in the interval deleted in the Prader Willi syndrome results in murine neuronal and endocrine pancreatic developmental phenotypes. Human Molecular Genetics, 2017, 26, 4606-4616.	2.9	27
45	Biological constraints on GWAS SNPs at suggestive significance thresholds reveal additional BMI loci. ELife, 2021, 10, .	6.0	27
46	Proopiomelanocortin, agouti-related protein, and leptin in human cerebrospinal fluid: correlations with body weight and adiposity. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E458-E465.	3.5	26
47	Cross-sectional and Test-Retest Characterization of PET with [18F]FP-(+)-DTBZ for Î² Cell Mass Estimates in Diabetes. Molecular Imaging and Biology, 2016, 18, 292-301.	2.6	26
48	Genetic Studies of Leptin Concentrations Implicate Leptin in the Regulation of Early Adiposity. Diabetes, 2020, 69, 2806-2818.	0.6	26
49	Pancreatic Beta Cell Differentiation From Human Pluripotent Stem Cells. Current Protocols in Human Genetics, 2018, 99, e68.	3.5	23
50	PC1/3 Deficiency Impacts Pro-opiomelanocortin Processing in Human Embryonic Stem Cell-Derived Hypothalamic Neurons. Stem Cell Reports, 2017, 8, 264-277.	4.8	22
51	FTO mediates cell-autonomous effects on adipogenesis and adipocyte lipid content by regulating gene expression via 6mA DNA modifications. Journal of Lipid Research, 2018, 59, 1446-1460.	4.2	21
52	Autosomal Dominant Growth Hormone (GH) Deficiency Type II: The Del32-71-GH Deletion Mutant Suppresses Secretion of Wild-Type GH. Endocrinology, 2000, 141, 883-890.	2.8	21
53	Pathophysiology of drug induced weight and metabolic effects: findings from an RCT in healthy volunteers treated with olanzapine, iloperidone, or placebo. Journal of Psychopharmacology, 2018, 32, 533-540.	4.0	19
54	Retinol-binding protein 2 (RBP2) binds monoacylglycerols and modulates gut endocrine signaling and body weight. Science Advances, 2020, 6, eaay8937.	10.3	17

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55	The postnatal leptin surge in mice is variable in both time and intensity and reflects nutritional status. International Journal of Obesity, 2022, 46, 39-49.	3.4	16
56	Effects of a novel MC4R agonist on maintenance of reduced body weight in dietâ€induced obese mice. Obesity, 2014, 22, 1287-1295.	3.0	15
57	Variant-to-Gene-Mapping Analyses Reveal a Role for the Hypothalamus in Genetic Susceptibility to Inflammatory Bowel Disease. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 667-682.	4.5	15
58	Physiological consequences of transient hyperleptinemia during discrete developmental periods on body weight in mice. Science Translational Medicine, 2020, 12, .	12.4	14
59	Resistance Training Reduces Skeletal Muscle Work Efficiency in Weightâ€Reduced and Nonâ€“Weightâ€Reduced Subjects. Obesity, 2018, 26, 1576-1583.	3.0	13
60	The role of Rpgrip1l, a component of the primary cilium, in adipocyte development and function. FASEB Journal, 2018, 32, 3946-3956.	0.5	13
61	Effects of Leptin Receptor Mutation on Agrp Gene Expression in Fed and Fasted Lean and Obese (LA/N-faf) Rats. Endocrinology, 2000, 141, 2465-2471.	2.8	13
62	Energy homeostasis in leptin deficient Lepob/ob mice. PLoS ONE, 2017, 12, e0189784.	2.5	13
63	ZNF70, a novel ILDR2-interacting protein, contributes to the regulation of HES1 gene expression. Biochemical and Biophysical Research Communications, 2016, 477, 712-716.	2.1	12
64	DMSO increases efficiency of genome editing at two non-coding loci. PLoS ONE, 2018, 13, e0198637.	2.5	12
65	Cis-regulatory architecture of human ESC-derived hypothalamic neuron differentiation aids in variant-to-gene mapping of relevant complex traits. Nature Communications, 2021, 12, 6749.	12.8	11
66	Frequency and characterization of mutations in genes in a large cohort of patients referred to MODY registry. Journal of Pediatric Endocrinology and Metabolism, 2021, 34, 633-638.	0.9	9
67	Auto-Regulation of Leptin Neurobiology. Cell Metabolism, 2019, 30, 614-616.	16.2	8
68	The molecular genetics of the melanocortin pathway and energy homeostasis. Cell Metabolism, 2006, 3, 79-81.	16.2	7
69	SNORD116 and growth hormone therapy impact IGFBP7 in Praderâ€“Willi syndrome. Genetics in Medicine, 2021, 23, 1664-1672.	2.4	7
70	Weight Perturbation Alters Leptin Signal Transduction in a Region-Specific Manner throughout the Brain. PLoS ONE, 2017, 12, e0168226.	2.5	6
71	Reply to R Weinsier et al. American Journal of Clinical Nutrition, 2001, 73, 657-658.	4.7	5
72	Functional genomic characterization of the FTO locus in African Americans. Physiological Genomics, 2019, 51, 517-528.	2.3	4

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73	Partial duplication in the Lepr db-Pas mutation is a result of unequal crossing over. Mammalian Genome, 1998, 9, 780-781.	2.2	3
74	OUP accepted manuscript. American Journal of Clinical Nutrition, 2022, 115, 591-592.	4.7	2
75	Word selection and weight bias. Obesity, 2021, 29, 1238-1238.	3.0	1
76	ILDR2 has a negligible role in hepatic steatosis. PLoS ONE, 2018, 13, e0197548.	2.5	0
77	Transgenic substitution with Greater Amberjack Seriola dumerili fish insulin 2 in NOD mice reduces beta cell immunogenicity. Scientific Reports, 2019, 9, 4965.	3.3	0