Charles A Leduc

List of Publications by Year
in descending order

42 papers	1,746 citations	361413 20 h-index	315739 38 g-index
42 all docs	42 docs citations	42 times ranked	4078 citing authors

#	Article	IF	Citations
1	Regulation ofFto/Ftmgene expression in mice and humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1185-R1196.	1.8	270
2	Genome-wide meta-analysis uncovers novel loci influencing circulating leptin levels. Nature Communications, 2016, 7, 10494.	12.8	153
3	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
4	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
5	Comparable Frequencies of Coding Mutations and Loss of Imprinting in Human Pluripotent Cells Derived by Nuclear Transfer and Defined Factors. Cell Stem Cell, 2014, 15, 634-642.	11.1	113
6	Differentiation of hypothalamic-like neurons from human pluripotent stem cells. Journal of Clinical Investigation, 2015, 125, 796-808.	8.2	112
7	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
8	Hypomorphism of Fto and Rpgrip1l causes obesity in mice. Journal of Clinical Investigation, 2016, 126, 1897-1910.	8.2	80
9	Obesity-associated hyperleptinemia alters the gliovascular interface of the hypothalamus to promote hypertension. Cell Metabolism, 2021, 33, 1155-1170.e10.	16.2	68
10	Monoallelic and Biallelic Variants in EMC1 Identified in Individuals with Global Developmental Delay, Hypotonia, Scoliosis, and Cerebellar Atrophy. American Journal of Human Genetics, 2016, 98, 562-570.	6.2	66
11	Reproducibility and accuracy of body composition assessments in mice by dual energy x-ray absorptiometry and time domain nuclear magnetic resonance. International Journal of Body Composition Research, 2009, 7, 147-154.	0.5	50
12	Effects of ambient temperature on adaptive thermogenesis during maintenance of reduced body weight in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R438-R448.	1.8	44
13	Evidence for a Non-leptin System that Defends against Weight Gain in Overfeeding. Cell Metabolism, 2018, 28, 289-299.e5.	16.2	43
14	Recessive Rare Variants in Deoxyhypusine Synthase, an Enzyme Involved in the Synthesis of Hypusine, Are Associated with a Neurodevelopmental Disorder. American Journal of Human Genetics, 2019, 104, 287-298.	6.2	38
15	Bi-allelic Mutations in Phe-tRNA Synthetase Associated with a Multi-system Pulmonary Disease Support Non-translational Function. American Journal of Human Genetics, 2018, 103, 100-114.	6.2	34
16	Novel Association of Early Onset Hepatocellular Carcinoma with Transaldolase Deficiency. JIMD Reports, 2013, 12, 121-127.	1.5	33
17	Bardet-Biedl syndrome proteins regulate intracellular signaling and neuronal function in patient-specific iPSC-derived neurons. Journal of Clinical Investigation, 2021, 131, .	8.2	30
18	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

#	Article	IF	Citations
19	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
20	Genetic Studies of Leptin Concentrations Implicate Leptin in the Regulation of Early Adiposity. Diabetes, 2020, 69, 2806-2818.	0.6	26
21	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
22	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
23	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
24	Physiological consequences of transient hyperleptinemia during discrete developmental periods on body weight in mice. Science Translational Medicine, 2020, 12, .	12.4	14
25	The role of Rpgrip1l, a component of the primary cilium, in adipocyte development and function. FASEB Journal, 2018, 32, 3946-3956.	0.5	13
26	Energy homeostasis in leptin deficient Lepob/ob mice. PLoS ONE, 2017, 12, e0189784.	2.5	13
27	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
28	DMSO increases efficiency of genome editing at two non-coding loci. PLoS ONE, 2018, 13, e0198637.	2.5	12
29	Weightâ€loss response to naltrexone/bupropion is modulated by the <scp>Taq1A</scp> genetic variant near <scp>DRD2</scp> (<scp>rs1800497</scp>): A pilot study. Diabetes, Obesity and Metabolism, 2021, 23, 850-853.	4.4	10
30	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
31	Auto-Regulation of Leptin Neurobiology. Cell Metabolism, 2019, 30, 614-616.	16.2	8
32	The Role of Leptin in the Development of Energy Homeostatic Systems and the Maintenance of Body Weight. Frontiers in Physiology, 2021, 12, 789519.	2.8	8
33	Weight Perturbation Alters Leptin Signal Transduction in a Region-Specific Manner throughout the Brain. PLoS ONE, 2017, 12, e0168226.	2.5	6
34	Gene expression atlas of energy balance brain regions. JCI Insight, 2021, 6, .	5.0	6
35	Homozygous noncanonical splice variant in LSM1 in two siblings with multiple congenital anomalies and global developmental delay. Journal of Physical Education and Sports Management, 2019, 5, a004101.	1.2	4
36	Biâ€allelic PAGR1 variants are associated with microcephaly and a severe neurodevelopmental disorder: Genetic evidence from two families. American Journal of Medical Genetics, Part A, 2021, , .	1.2	3

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37	Utility of Oligonucleotide Array Comparative Genomic Hybridization to Identify Cryptic Copy Number Alterations in Myelodysplastic Syndromes. Blood, 2008, 112, 5076-5076.	1.4	1
38	A homozygous splice variant in ATP5PO , disrupts mitochondrial complex V function and causes Leigh syndrome in two unrelated families. Journal of Inherited Metabolic Disease, 0, , .	3.6	1
39	Endocrine and behavioural features of Lowe syndrome and their potential molecular mechanisms. Journal of Medical Genetics, 2022, 59, 1171-1178.	3.2	1
40	ILDR2 has a negligible role in hepatic steatosis. PLoS ONE, 2018, 13, e0197548.	2.5	0
41	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
42	Familial and Acquired SH2B3 mutations in ALL. Blood, 2012, 120, 1326-1326.	1.4	0