

Mark O Huising

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

3,366
citations

33
h-index

57
g-index

71
ext. papers

4,021
ext. citations

8.5
avg, IF

5.41
L-index

#	Paper	IF	Citations
65	The transcriptional landscape of mouse beta cells compared to human beta cells reveals notable species differences in long non-coding RNA and protein-coding gene expression. <i>BMC Genomics</i> , 2014 , 15, 620	4.5	188
64	Increased leptin expression in common Carp (<i>Cyprinus carpio</i>) after food intake but not after fasting or feeding to satiation. <i>Endocrinology</i> , 2006 , 147, 5786-97	4.8	186
63	Phylogeny and evolution of class-I helical cytokines. <i>Journal of Endocrinology</i> , 2006 , 189, 1-25	4.7	176
62	Comprehensive alpha, beta and delta cell transcriptomes reveal that ghrelin selectively activates delta cells and promotes somatostatin release from pancreatic islets. <i>Molecular Metabolism</i> , 2016 , 5, 449-458	8.8	175
61	CRF and stress in fish. <i>General and Comparative Endocrinology</i> , 2006 , 146, 36-44	3	174
60	Two divergent leptin paralogues in zebrafish (<i>Danio rerio</i>) that originate early in teleostean evolution. <i>Journal of Endocrinology</i> , 2009 , 201, 329-39	4.7	167
59	Urocortin3 mediates somatostatin-dependent negative feedback control of insulin secretion. <i>Nature Medicine</i> , 2015 , 21, 769-76	50.5	146
58	TRPV1 pain receptors regulate longevity and metabolism by neuropeptide signaling. <i>Cell</i> , 2014 , 157, 1023-36	56.2	143
57	Virgin Beta Cells Persist throughout Life at a Neogenic Niche within Pancreatic Islets. <i>Cell Metabolism</i> , 2017 , 25, 911-926.e6	24.6	129
56	The molecular evolution of the interleukin-1 family of cytokines; IL-18 in teleost fish. <i>Developmental and Comparative Immunology</i> , 2004 , 28, 395-413	3.2	124
55	Neuroendocrine-immune interactions in fish: a role for interleukin-1. <i>Veterinary Immunology and Immunopathology</i> , 2002 , 87, 467-79	2	113
54	CXC chemokines and leukocyte chemotaxis in common carp (<i>Cyprinus carpio</i> L.). <i>Developmental and Comparative Immunology</i> , 2003 , 27, 875-88	3.2	102
53	Pseudotemporal Ordering of Single Cells Reveals Metabolic Control of Postnatal β Cell Proliferation. <i>Cell Metabolism</i> , 2017 , 25, 1160-1175.e11	24.6	92
52	Molecular evolution of CXC chemokines: extant CXC chemokines originate from the CNS. <i>Trends in Immunology</i> , 2003 , 24, 307-13	14.4	87
51	The somatostatin-secreting pancreatic β cell in health and disease. <i>Nature Reviews Endocrinology</i> , 2018 , 14, 404-414	15.2	84
50	Role of transcription factors in the transdifferentiation of pancreatic islet cells. <i>Journal of Molecular Endocrinology</i> , 2015 , 54, R103-17	4.5	70
49	Central and peripheral interleukin-1 β and interleukin-1 receptor I expression and their role in the acute stress response of common carp, <i>Cyprinus carpio</i> L. <i>Journal of Endocrinology</i> , 2006 , 191, 25-35	4.7	70

48	Urocortin 3 marks mature human primary and embryonic stem cell-derived pancreatic alpha and beta cells. <i>PLoS ONE</i> , 2012 , 7, e52181	3.7	67
47	Three novel carp CXC chemokines are expressed early in ontogeny and at nonimmune sites. <i>FEBS Journal</i> , 2004 , 271, 4094-106		66
46	The presence of multiple and differentially regulated interleukin-12p40 genes in bony fishes signifies an expansion of the vertebrate heterodimeric cytokine family. <i>Molecular Immunology</i> , 2006 , 43, 1519-33	4.3	62
45	Increased efficacy of immersion vaccination in fish with hyperosmotic pretreatment. <i>Vaccine</i> , 2003 , 21, 4178-93	4.1	61
44	Artemether Does Not Turn β Cells into α Cells. <i>Cell Metabolism</i> , 2018 , 27, 218-225.e4	24.6	60
43	The remarkable conservation of corticotropin-releasing hormone (CRH)-binding protein in the honeybee (<i>Apis mellifera</i>) dates the CRH system to a common ancestor of insects and vertebrates. <i>Endocrinology</i> , 2005 , 146, 2165-70	4.8	60
42	Real-time gene expression analysis in carp (<i>Cyprinus carpio</i> L.) skin: inflammatory responses to injury mimicking infection with ectoparasites. <i>Developmental and Comparative Immunology</i> , 2007 , 31, 244-54	3.2	57
41	Multiple and highly divergent IL-11 genes in teleost fish. <i>Immunogenetics</i> , 2005 , 57, 432-43	3.2	55
40	Rag expression identifies B and T cell lymphopoietic tissues during the development of common carp (<i>Cyprinus carpio</i>). <i>Developmental and Comparative Immunology</i> , 2005 , 29, 1033-47	3.2	54
39	CRFR1 is expressed on pancreatic beta cells, promotes beta cell proliferation, and potentiates insulin secretion in a glucose-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 912-7	11.5	53
38	Recombinant human leptin attenuates stress axis activity in common carp (<i>Cyprinus carpio</i> L.). <i>General and Comparative Endocrinology</i> , 2012 , 178, 75-81	3	48
37	Navigating the Depths and Avoiding the Shallows of Pancreatic Islet Cell Transcriptomes. <i>Diabetes</i> , 2019 , 68, 1380-1393	0.9	41
36	CRISPR/Cas9 microinjection in oocytes disables pancreas development in sheep. <i>Scientific Reports</i> , 2017 , 7, 17472	4.9	39
35	Localization, expression and control of adrenocorticotrophic hormone in the nucleus preopticus and pituitary gland of common carp (<i>Cyprinus carpio</i> L.). <i>Journal of Endocrinology</i> , 2004 , 182, 23-31	4.7	39
34	Analysis of Purified Pancreatic Islet Beta and Alpha Cell Transcriptomes Reveals 11 β -Hydroxysteroid Dehydrogenase (Hsd11b1) as a Novel Disallowed Gene. <i>Frontiers in Genetics</i> , 2017 , 8, 41	4.5	36
33	STAT genes display differential evolutionary rates that correlate with their roles in the endocrine and immune system. <i>Journal of Endocrinology</i> , 2011 , 209, 175-84	4.7	34
32	Maturation of stem cell-derived beta-cells guided by the expression of urocortin 3. <i>Review of Diabetic Studies</i> , 2014 , 11, 115-32	3.6	33
31	Integrating the inputs that shape pancreatic islet hormone release. <i>Nature Metabolism</i> , 2019 , 1, 1189-1201	14.6	30

30	Residues of corticotropin releasing factor-binding protein (CRF-BP) that selectively abrogate binding to CRF but not to urocortin 1. <i>Journal of Biological Chemistry</i> , 2008 , 283, 8902-12	5.4	27
29	Corticotropin-releasing factor-binding protein (CRF-BP) inhibits CRF- and urotensin-I-mediated activation of CRF receptor-1 and -2 in common carp. <i>General and Comparative Endocrinology</i> , 2014 , 202, 69-75	3	22
28	Hepatic Insulin Resistance Following Chronic Activation of the CREB Coactivator CRTC2. <i>Journal of Biological Chemistry</i> , 2015 , 290, 25997-6006	5.4	19
27	Control of voltage-gated potassium channel Kv2.2 expression by pyruvate-isocitrate cycling regulates glucose-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2013 , 288, 23128-40	5.4	17
26	Corticotropin-releasing factor (CRF) and CRF-binding protein expression in and release from the head kidney of common carp: evolutionary conservation of the adrenal CRF system. <i>Journal of Endocrinology</i> , 2007 , 193, 349-57	4.7	17
25	The Difference β Cells Make in Glucose Control. <i>Physiology</i> , 2018 , 33, 403-411	9.8	17
24	Mosaicism diminishes the value of pre-implantation embryo biopsies for detecting CRISPR/Cas9 induced mutations in sheep. <i>Transgenic Research</i> , 2018 , 27, 525-537	3.3	15
23	Overproduction of corticotropin-releasing hormone blocks germinal center formation: role of corticosterone and impaired follicular dendritic cell networks. <i>Journal of Neuroimmunology</i> , 2004 , 156, 31-41	3.5	12
22	Cardiac CRFR1 Expression Is Elevated in Human Heart Failure and Modulated by Genetic Variation and Alternative Splicing. <i>Endocrinology</i> , 2016 , 157, 4865-4874	4.8	10
21	CRFR1 activation protects against cytokine-induced β cell death. <i>Journal of Molecular Endocrinology</i> , 2014 , 53, 417-27	4.5	10
20	Regulation of the stress response in early vertebrates. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1040, 345-7	6.5	9
19	Paracrine regulation of insulin secretion. <i>Diabetologia</i> , 2020 , 63, 2057-2063	10.3	9
18	Free fatty acid receptor 4 inhibitory signaling in delta cells regulates islet hormone secretion in mice. <i>Molecular Metabolism</i> , 2021 , 45, 101166	8.8	7
17	Evidence for a Neogenic Niche at the Periphery of Pancreatic Islets. <i>BioEssays</i> , 2018 , 40, e1800119	4.1	7
16	Genetic deletion of Urocortin 3 does not prevent functional maturation of beta cells. <i>Journal of Endocrinology</i> , 2020 , 246, 69-78	4.7	6
15	Ins2 gene bursting activity defines a mature β cell state		6
14	Loss of sympathetic innervation to islets of Langerhans in canine diabetes and pancreatitis is not associated with insulinitis. <i>Scientific Reports</i> , 2020 , 10, 19187	4.9	6
13	Nutrient regulation of the islet epigenome controls adaptive insulin secretion		5

12	Data-driven synthesis of proteolysis-resistant peptide hormones. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17710-3	16.4	3
11	Response to Shields: Molecular evolution of CXC chemokines and receptors. <i>Trends in Immunology</i> , 2003 , 24, 356-357	14.4	3
10	Virgin β Cells at the Neogenic Niche Proliferate Normally and Mature Slowly. <i>Diabetes</i> , 2021 , 70, 1070-1083	10.9	3
9	IAPP-induced beta cell stress recapitulates the islet transcriptome in type 2 diabetes. <i>Diabetologia</i> , 2022 , 65, 173-187	10.3	3
8	Restoring normal islet mass and function in type 1 diabetes through regenerative medicine and tissue engineering. <i>Lancet Diabetes and Endocrinology</i> , 2021 , 9, 708-724	18.1	3
7	Tuning to the right signal. <i>Diabetologia</i> , 2015 , 58, 1146-8	10.3	2
6	Tead1 reciprocally regulates adult β cell proliferation and function		2
5	Free fatty-acid receptor 4 inhibitory signaling in delta cells regulates islet hormone secretion in mice		2
4	Heterogeneity of Diabetes: β Cells, Phenotypes, and Precision Medicine: Proceedings of an International Symposium of the Canadian Institutes of Health Research, Institute of Nutrition, Metabolism and Diabetes and the U.S. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases. <i>Diabetes Care</i> , 2021 ,	14.6	1
3	Genetic deficiency or pharmacological inhibition of soluble epoxide hydrolase ameliorates high fat diet-induced pancreatic β cell dysfunction and loss. <i>Free Radical Biology and Medicine</i> , 2021 , 172, 48-57	7.8	1
2	Urocortin3: local inducer of somatostatin release and bellwether of beta cell maturity.. <i>Peptides</i> , 2022 , 170748	3.8	0
1	Temporal coding of ERK signalling in β cells. <i>Nature Reviews Endocrinology</i> , 2021 , 17, 517-518	15.2	