Martin Holzenberger

List of Publications by Year
in descending order

72 papers	6,879 citations	109137 35 h-index	98622 67 g-index
80 all docs	80 docs citations	80 times ranked	8989 citing authors

#	Article	IF	Citations
1	IGF-1 receptor regulates lifespan and resistance to oxidative stress in mice. Nature, 2003, 421, 182-187.	13.7	1,881
2	Reduced IGF-1 Signaling Delays Age-Associated Proteotoxicity in Mice. Cell, 2009, 139, 1157-1169.	13.5	450
3	Î²-cellâ€“specific deletion of the Igf1 receptor leads to hyperinsulinemia and glucose intolerance but does not alter Î²-cell mass. Nature Genetics, 2002, 31, 111-115.	9.4	345
4	Insulin receptors in beta-cells are critical for islet compensatory growth response to insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8977-8982.	3.3	260
5	Regulatory T cells delay disease progression in Alzheimer-like pathology. Brain, 2016, 139, 1237-1251.	3.7	260
6	Brain IGF-1 Receptors Control Mammalian Growth and Lifespan through a Neuroendocrine Mechanism. PLoS Biology, 2008, 6, e254.	2.6	248
7	Total insulin and IGF-I resistance in pancreatic Î² cells causes overt diabetes. Nature Genetics, 2006, 38, 583-588.	9.4	239
8	Biology of insulin-like growth factors in development. Birth Defects Research Part C: Embryo Today Reviews, 2003, 69, 257-271.	3.6	183
9	Insulin-Like Growth Factor I Receptor Signaling Is Required for Exercise-Induced Cardiac Hypertrophy. Molecular Endocrinology, 2008, 22, 2531-2543.	3.7	178
10	Knockout of insulin and IGF-1 receptors on vascular endothelial cells protects against retinal neovascularization. Journal of Clinical Investigation, 2003, 111, 1835-1842.	3.9	165
11	Essential Role of Insulin and Insulin-Like Growth Factor 1 Receptor Signaling in Cardiac Development and Function. Molecular and Cellular Biology, 2007, 27, 1649-1664.	1.1	155
12	High-level IGF1R expression is required for leukemia-initiating cell activity in T-ALL and is supported by Notch signaling. Journal of Experimental Medicine, 2011, 208, 1809-1822.	4.2	153
13	Blocking IGF Signaling in Adult Neurons Alleviates Alzheimer's Disease Pathology through Amyloid-Î² Clearance. Journal of Neuroscience, 2015, 35, 11500-11513.	1.7	124
14	Cre-mediated recombination in the skin melanocyte lineage. Genesis, 2003, 36, 73-80.	0.8	122
15	Hepatocyte proliferation during liver regeneration is impaired in mice with liverâ€specific IGFâ€1R knockout. FASEB Journal, 2006, 20, 773-775.	0.2	109
16	Insulin-Like Growth Factor 1 Receptor Signaling Regulates Skin Development and Inhibits Skin Keratinocyte Differentiation. Molecular and Cellular Biology, 2006, 26, 2675-2687.	1.1	108
17	Knockout of insulin and IGF-1 receptors on vascular endothelial cells protects against retinal neovascularization. Journal of Clinical Investigation, 2003, 111, 1835-1842.	3.9	106
18	A Targeted Partial Invalidation of the Insulin-Like Growth Factor I Receptor Gene in Mice Causes a Postnatal Growth Deficit*. Endocrinology, 2000, 141, 2557-2566.	1.4	97

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19	Longevity effect of <scp>IGF</scp>â€1 <scp>R</scp>^{+/â€} mutation depends on genetic backgroundâ€specific receptor activation. Aging Cell, 2014, 13, 19-28.	3.0	87
20	Experimental IGF-I Receptor Deficiency Generates a Sexually Dimorphic Pattern of Organ-Specific Growth Deficits in Mice, Affecting Fat Tissue in Particular. Endocrinology, 2001, 142, 4469-4478.	1.4	82
21	IGF binding protein 2 supports the survival and cycling of hematopoietic stem cells. Blood, 2011, 118, 3236-3243.	0.6	79
22	The Intestinal Epithelial Insulin-Like Growth Factor-1 Receptor Links Glucagon-Like Peptide-2 Action to Gut Barrier Function. Endocrinology, 2014, 155, 370-379.	1.4	79
23	Early Postnatal Nutrition Determines Somatotropic Function in Mice. Endocrinology, 2009, 150, 314-323.	1.4	77
24	Loss of Glucagon-Like Peptide-2â€“Induced Proliferation Following Intestinal Epithelial Insulin-Like Growth Factor-1â€“Receptor Deletion. Gastroenterology, 2011, 141, 2166-2175.e7.	0.6	74
25	Suppression of <scp>IGF</scp>â€ signals in neural stem cells enhances neurogenesis and olfactory function during aging. Aging Cell, 2015, 14, 847-856.	3.0	73
26	Hypothalamic neurogenesis persists in the aging brain and is controlled by energy-sensing IGF-I pathway. Neurobiology of Aging, 2016, 41, 64-72.	1.5	69
27	IGF-1 signaling and aging. Experimental Gerontology, 2004, 39, 1761-1764.	1.2	60
28	Conditional Deletion of Insulin-like Growth Factor-I Receptor in Prostate Epithelium. Cancer Research, 2008, 68, 3495-3504.	0.4	59
29	Cre-mediated germline mosaicism: a new transgenic mouse for the selective removal of residual markers from tri-lox conditional alleles. Nucleic Acids Research, 2003, 31, 21e-21.	6.5	58
30	Proinflammatory Actions of Visfatin/Nicotinamide Phosphoribosyltransferase (Nampt) Involve Regulation of Insulin Signaling Pathway and Nampt Enzymatic Activity. Journal of Biological Chemistry, 2012, 287, 15100-15108.	1.6	56
31	Knockout of Insulin-Like Growth Factor-1 Receptor Impairs Distal Lung Morphogenesis. PLoS ONE, 2012, 7, e48071.	1.1	56
32	Selective Expression of Insulin-Like Growth Factor II in the Songbird Brain. Journal of Neuroscience, 1997, 17, 6974-6987.	1.7	52
33	The Alzheimerâ€™s disease transcriptome mimics the neuroprotective signature of IGF-1 receptor-deficient neurons. Brain, 2017, 140, 2012-2027.	3.7	51
34	The GH/IGF-I axis and longevity. European Journal of Endocrinology, 2004, 151 Suppl 1, S23-S27.	1.9	48
35	Interaction of myocardial insulin receptor and IGF receptor signaling in exercise-induced cardiac hypertrophy. Journal of Molecular and Cellular Cardiology, 2009, 47, 664-675.	0.9	42
36	IGF-1R Reduction Triggers Neuroprotective Signaling Pathways in Spinal Muscular Atrophy Mice. Journal of Neuroscience, 2015, 35, 12063-12079.	1.7	38

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37	Deleting IGF-1 receptor from forebrain neurons confers neuroprotection during stroke and upregulates endocrine somatotropin. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 396-412.	2.4	38
38	IGF-1 signaling reduces neuro-inflammatory response and sensitivity of neurons to MPTP. Neurobiology of Aging, 2009, 30, 2021-2030.	1.5	36
39	Major components of the insulin-like growth factor axis are expressed early in chicken embryogenesis, with IGF binding protein (IGFBP) -5 expression subject to regulation by Sonic Hedgehog. Anatomy and Embryology, 2003, 207, 73-84.	1.5	34
40	The avian IGF type 1 receptor: cDNA analysis and in situ hybridization reveal conserved sequence elements and expression patterns relevant for the development of the nervous system. Developmental Brain Research, 1996, 97, 76-87.	2.1	32
41	Exploring endocrine GH pattern in mice using rank plot analysis and random blood samples. Journal of Endocrinology, 2011, 208, 119-129.	1.2	32
42	Insulin-like growth factor 1 receptor regulates hypothermia during calorie restriction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9731-9736.	3.3	32
43	Experimental IGF-I Receptor Deficiency Generates a Sexually Dimorphic Pattern of Organ-Specific Growth Deficits in Mice, Affecting Fat Tissue in Particular. , 0, .		31
44	Deficiency in type 1 insulin-like growth factor receptor in mice protects against oxygen-induced lung injury. Respiratory Research, 2005, 6, 31.	1.4	30
45	Expression of insulinâ€like growth factorâ€I (IGFâ€I) and IGFâ€II in the avian brain: relationship of in situ hybridization patterns with IGF type 1 receptor expression. International Journal of Developmental Neuroscience, 2000, 18, 69-82.	0.7	26
46	Ubiquitous postnatal LoxP recombination using a doxycycline auto-inducible Cre transgene (DAI-Cre). Genesis, 2000, 26, 157-159.	0.8	23
47	c-myc-induced hepatocarcinogenesis in the absence of IGF-I receptor. International Journal of Cancer, 2005, 114, 668-672.	2.3	22
48	IGF signaling contributes to malignant transformation of hematopoietic progenitors by the MLL-AF9 oncoprotein. Experimental Hematology, 2012, 40, 715-723.e6.	0.2	20
49	IGF Type 1 Receptor Ligand Binding Characteristics Are Altered in a Subgroup of Children with Intrauterine Growth Retardation. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 5516-5524.	1.8	19
50	Disrupting IGF Signaling in Adult Mice Conditions Leanness, Resilient Energy Metabolism, and High Growth Hormone Pulses. Endocrinology, 2017, 158, 2269-2283.	1.4	17
51	Decelerated growth and longevity in men. Archives of Gerontology and Geriatrics, 1991, 13, 89-101.	1.4	16
52	IGF-IR determines the fates of BCR/ABL leukemia. Journal of Hematology and Oncology, 2015, 8, 3.	6.9	16
53	CaMKIIÎ± Expression Defines Two Functionally Distinct Populations of Granule Cells Involved in Different Types of Odor Behavior. Current Biology, 2017, 27, 3315-3329.e6.	1.8	15
54	IGF Type 1 Receptor: A Cell Cycle Progression Factor That Regulates Aging. Cell Cycle, 2003, 2, 269-271.	1.3	13

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55	Igf1r signalling acts on the anagenâ€toâ€catagen transition in the hair cycle. Experimental Dermatology, 2017, 26, 785-791.	1.4	13
56	IGF-I Signaling and Effects on Longevity. Nestle Nutrition Institute Workshop Series, 2011, 68, 237-249.	1.5	12
57	Expression of Dominant-Negative Thyroid Hormone Receptor Alpha1 in Leydig and Sertoli Cells Demonstrates No Additional Defect Compared with Expression in Sertoli Cells Only. PLoS ONE, 2015, 10, e0119392.	1.1	11
58	Components of the Hematopoietic Compartments in Tumor Stroma and Tumor-Bearing Mice. PLoS ONE, 2011, 6, e18054.	1.1	10
59	IGF-1R Contributes to Stress-Induced Hepatocellular Damage in Experimental Cholestasis. American Journal of Pathology, 2009, 175, 627-635.	1.9	9
60	A French Academic Network for Sharing Transgenic Materials and Knowledge. Transgenic Research, 2005, 14, 801-802.	1.3	3
61	PTBP1 promotes hematopoietic stem cell maintenance and red blood cell development by ensuring sufficient availability of ribosomal constituents. Cell Reports, 2022, 39, 110793.	2.9	3
62	Reduced IGF-1 Signaling Delays Age-Associated Proteotoxicity in Mice. Cell, 2010, 140, 753.	13.5	2
63	Beneficial role of regulatory T cells in a mouse model of Alzheimer's disease. Journal of Neuroimmunology, 2014, 275, 124.	1.1	2
64	Physiologie de lâ€™axe somatotrope : intÃ©rÃªt des expÃ©riences dâ€™invalidation gÃ©nique. Bulletin De L'Academie Nationale De Medecine, 2003, 187, 1225-1247.	0.0	2
65	Body surface area as a parameter of age decline. Archives of Gerontology and Geriatrics, 1991, 13, 139-149.	1.4	1
66	The GH/IGF-1 Axis: Insights from Animal Models. , 2005, , 41-51.		1
67	Developmental expression of insulin-like growth factors (IGFs) and their type 1 receptor in the chick. Biology of the Cell, 1995, 84, 101-101.	0.7	0
68	Neural stem cell management by longevity gene IGF-1. Experimental Gerontology, 2015, 68, 99.	1.2	0
69	O2â€07â€03: Regulatory T Cells Delay Disease Progression in Alzheimer'sâ€like Pathology. Alzheimer's and Dementia, 2016, 12, P242.	0.4	0
70	IGF-1 Receptors in Mammalian Longevity: Less is More. Research and Perspectives in Endocrine Interactions, 2004, , 35-48.	0.2	0
71	IGF Receptors in the Adult Brain. Research and Perspectives in Endocrine Interactions, 2010, , 125-142.	0.2	0
72	High-level IGF1R expression is required for leukemia-initiating cell activity in T-ALL and is supported by Notch signaling. Journal of Cell Biology, 2011, 194, i8-i8.	2.3	0