Joachim Herz

List of Publications by Year
in descending order

234 papers	31,881 citations	4146 87 h-index	4432 172 g-index
250 all docs	250 docs citations	250 times ranked	29108 citing authors

#	Article	IF	Citations
1	Clinical and Biological Features Associated With Epidermal Growth Factor Receptor Gene Mutations in Lung Cancers. Journal of the National Cancer Institute, 2005, 97, 339-346.	6.3	2,194
2	Suppression of Aging in Mice by the Hormone Klotho. Science, 2005, 309, 1829-1833.	12.6	1,634
3	Reeler/Disabled-like Disruption of Neuronal Migration in Knockout Mice Lacking the VLDL Receptor and ApoE Receptor 2. Cell, 1999, 97, 689-701.	28.9	1,194
4	An Endocytic Pathway Essential for Renal Uptake and Activation of the Steroid 25-(OH) Vitamin D3. Cell, 1999, 96, 507-515.	28.9	924
5	Direct Binding of Reelin to VLDL Receptor and ApoE Receptor 2 Induces Tyrosine Phosphorylation of Disabled-1 and Modulates Tau Phosphorylation. Neuron, 1999, 24, 481-489.	8.1	846
6	LRP: a multifunctional scavenger and signaling receptor. Journal of Clinical Investigation, 2001, 108, 779-784.	8.2	832
7	Essential functions of synapsins I and II in synaptic vesicle regulation. Nature, 1995, 375, 488-493.	27.8	708
8	The LDLâ€“receptorâ€“related protein, LRP, is an apolipoprotein E-binding protein. Nature, 1989, 341, 162-164.	27.8	645
9	Apolipoprotein E and Apolipoprotein E Receptors: Normal Biology and Roles in Alzheimer Disease. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a006312-a006312.	6.2	637
10	LDL receptor-related protein internalizes and degrades uPA-PAI-1 complexes and is essential for embryo implantation. Cell, 1992, 71, 411-421.	28.9	574
11	Reelin and ApoE Receptors Cooperate to Enhance Hippocampal Synaptic Plasticity and Learning. Journal of Biological Chemistry, 2002, 277, 39944-39952.	3.4	548
12	LRP: Role in Vascular Wall Integrity and Protection from Atherosclerosis. Science, 2003, 300, 329-332.	12.6	528
13	Interaction of Cytosolic Adaptor Proteins with Neuronal Apolipoprotein E Receptors and the Amyloid Precursor Protein. Journal of Biological Chemistry, 1998, 273, 33556-33560.	3.4	502
14	Reelin, lipoprotein receptors and synaptic plasticity. Nature Reviews Neuroscience, 2006, 7, 850-859.	10.2	452
15	Modulation of Synaptic Plasticity and Memory by Reelin Involves Differential Splicing of the Lipoprotein Receptor Apoer2. Neuron, 2005, 47, 567-579.	8.1	429
16	Interactions of the Low Density Lipoprotein Receptor Gene Family with Cytosolic Adaptor and Scaffold Proteins Suggest Diverse Biological Functions in Cellular Communication and Signal Transduction. Journal of Biological Chemistry, 2000, 275, 25616-25624.	3.4	417
17	Lipoprotein Receptors in the Nervous System. Annual Review of Biochemistry, 2002, 71, 405-434.	11.1	402
18	Homology of 54K protein of signal-recognition particle, docking protein and two E. coli proteins with putative GTPâ€“binding domains. Nature, 1989, 340, 478-482.	27.8	388

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19	Identification of Neuronal RNA Targets of TDP-43-containing Ribonucleoprotein Complexes. Journal of Biological Chemistry, 2011, 286, 1204-1215.	3.4	366
20	TDP-43 Is a Developmentally Regulated Protein Essential for Early Embryonic Development. Journal of Biological Chemistry, 2010, 285, 6826-6834.	3.4	333
21	Reelin Activates Src Family Tyrosine Kinases in Neurons. Current Biology, 2003, 13, 18-26.	3.9	325
22	Amyloid Precursor Protein Regulates Brain Apolipoprotein E and Cholesterol Metabolism through Lipoprotein Receptor LRP1. Neuron, 2007, 56, 66-78.	8.1	320
23	ApoE4 reduces glutamate receptor function and synaptic plasticity by selectively impairing ApoE receptor recycling. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12011-12016.	7.1	304
24	TDP-43 Is Directed to Stress Granules by Sorbitol, a Novel Physiological Osmotic and Oxidative Stressor. Molecular and Cellular Biology, 2011, 31, 1098-1108.	2.3	296
25	Smooth muscle-selective deletion of guanylyl cyclase-A prevents the acute but not chronic effects of ANP on blood pressure. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7142-7147.	7.1	294
26	Reelin-mediated Signaling Locally Regulates Protein Kinase B/Akt and Glycogen Synthase Kinase 3Î². Journal of Biological Chemistry, 2002, 277, 49958-49964.	3.4	275
27	Proteolytic Processing of Low Density Lipoprotein Receptor-related Protein Mediates Regulated Release of Its Intracellular Domain. Journal of Biological Chemistry, 2002, 277, 18736-18743.	3.4	262
28	A Consensus Definitive Classification of Scavenger Receptors and Their Roles in Health and Disease. Journal of Immunology, 2017, 198, 3775-3789.	0.8	261
29	Apolipoprotein E Induces Antiinflammatory Phenotype in Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1160-1168.	2.4	257
30	Reelin Modulates NMDA Receptor Activity in Cortical Neurons. Journal of Neuroscience, 2005, 25, 8209-8216.	3.6	254
31	Disruption of Cholesterol 7Î±-Hydroxylase Gene in Mice. Journal of Biological Chemistry, 1996, 271, 18024-18031.	3.4	227
32	The LDL Receptor Gene Family. Neuron, 2001, 29, 571-581.	8.1	221
33	The Reelin Receptor ApoER2 Recruits JNK-interacting Proteins-1 and -2. Journal of Biological Chemistry, 2000, 275, 25625-25632.	3.4	220
34	Lipoprotein receptors: new roles for ancient proteins. Nature Cell Biology, 1999, 1, E157-E162.	10.3	205
35	Disruption of Cholesterol 7Î±-Hydroxylase Gene in Mice. Journal of Biological Chemistry, 1996, 271, 18017-18023.	3.4	203
36	Interaction of reelin signaling and Lis1 in brain development. Nature Genetics, 2003, 35, 270-276.	21.4	199

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37	Neuronal LRP1 Functionally Associates with Postsynaptic Proteins and Is Required for Normal Motor Function in Mice. Molecular and Cellular Biology, 2004, 24, 8872-8883.	2.3	197
38	Progranulin: A Proteolytically Processed Protein at the Crossroads of Inflammation and Neurodegeneration. Journal of Biological Chemistry, 2012, 287, 32298-32306.	3.4	192
39	Apolipoprotein E receptors: linking brain development and alzheimer's disease. Nature Reviews Neuroscience, 2000, 1, 51-58.	10.2	190
40	Platelet-derived Growth Factor Mediates Tyrosine Phosphorylation of the Cytoplasmic Domain of the Low Density Lipoprotein Receptor-related Protein in Caveolae. Journal of Biological Chemistry, 2002, 277, 15507-15513.	3.4	190
41	Phosphatidylinositol 3-Kinase Interacts with the Adaptor Protein Dab1 in Response to Reelin Signaling and Is Required for Normal Cortical Lamination. Journal of Biological Chemistry, 2003, 278, 38772-38779.	3.4	189
42	Adult Apaf-1-Deficient Mice Exhibit Male Infertility. Developmental Biology, 2000, 218, 248-258.	2.0	188
43	The Central Fragment of Reelin, Generated by Proteolytic Processing In Vivo, Is Critical to Its Function during Cortical Plate Development. Journal of Neuroscience, 2004, 24, 514-521.	3.6	183
44	Lrp4, a Novel Receptor for Dickkopf 1 and Sclerostin, Is Expressed by Osteoblasts and Regulates Bone Growth and Turnover In Vivo. PLoS ONE, 2009, 4, e7930.	2.5	181
45	TDP-43 aggregation in neurodegeneration: Are stress granules the key?. Brain Research, 2012, 1462, 16-25.	2.2	180
46	Receptor Clustering Is Involved in Reelin Signaling. Molecular and Cellular Biology, 2004, 24, 1378-1386.	2.3	179
47	Lrp4 Modulates Extracellular Integration of Cell Signaling Pathways in Development. PLoS ONE, 2008, 3, e4092.	2.5	171
48	Insulin-secreting Î²-Cell Dysfunction Induced by Human Lipoproteins. Journal of Biological Chemistry, 2003, 278, 18368-18375.	3.4	167
49	Standardizing Scavenger Receptor Nomenclature. Journal of Immunology, 2014, 192, 1997-2006.	0.8	166
50	Antiphospholipid antibodies promote leukocyteâ€“endothelial cell adhesion and thrombosis in mice by antagonizing eNOS via Î²2GPI and apoER2. Journal of Clinical Investigation, 2011, 121, 120-131.	8.2	165
51	Blood-brain barrier-associated pericytes internalize and clear aggregated amyloid-Î²42 by LRP1-dependent apolipoprotein E isoform-specific mechanism. Molecular Neurodegeneration, 2018, 13, 57.	10.8	164
52	Endocytic receptor LRP together with tPA and PAI-1 coordinates Mac-1-dependent macrophage migration. EMBO Journal, 2006, 25, 1860-1870.	7.8	161
53	The low-density lipoprotein receptor-related protein: double agent or decoy?. Current Opinion in Lipidology, 1991, 2, 65-72.	2.7	157
54	Reelin Controls Neuronal Positioning by Promoting Cell-Matrix Adhesion via Inside-Out Activation of Integrin Î±5Î²1. Neuron, 2012, 76, 353-369.	8.1	156

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55	Calcium cages, acid baths and recycling receptors. Nature, 1997, 388, 629-630.	27.8	155
56	LRP4 Mutations Alter Wnt/Î²-Catenin Signaling and Cause Limb and Kidney Malformations in Cenani-Lenz Syndrome. American Journal of Human Genetics, 2010, 86, 696-706.	6.2	151
57	Reelin signaling antagonizes Î²-amyloid at the synapse. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15938-15943.	7.1	139
58	Suberoylanilide Hydroxamic Acid (Vorinostat) Up-regulates Progranulin Transcription. Journal of Biological Chemistry, 2011, 286, 16101-16108.	3.4	138
59	The primary structure of the 70 kDa subunit of bovine soluble guanylate cyclase. FEBS Letters, 1988, 239, 29-34.	2.8	136
60	Functions of lipoprotein receptors in neurons. Journal of Lipid Research, 2004, 45, 403-409.	4.2	135
61	Adipocyte LDL receptorâ€“related proteinâ€“1 expression modulates postprandial lipid transport and glucose homeostasis in mice. Journal of Clinical Investigation, 2007, 117, 3271-3282.	8.2	135
62	Differential Glycosylation Regulates Processing of Lipoprotein Receptors by Î³-Secretase. Journal of Biological Chemistry, 2003, 278, 37386-37392.	3.4	132
63	Sustained somatic gene inactivation by viral transfer of Cre recombinase. Nature Biotechnology, 1996, 14, 1562-1565.	17.5	129
64	More than Cholesterol Transporters: Lipoprotein Receptors in CNS Function and Neurodegeneration. Neuron, 2014, 83, 771-787.	8.1	127
65	Cholesterol metabolism and embryogenesis. Trends in Genetics, 1998, 14, 115-120.	6.7	125
66	Abnormal development of the apical ectodermal ridge and polysyndactyly in Megf7-deficient mice. Human Molecular Genetics, 2005, 14, 3523-3538.	2.9	124
67	Essential roles for the FE65 amyloid precursor protein-interacting proteins in brain development. EMBO Journal, 2006, 25, 420-431.	7.8	122
68	Conditional Expression of Mutant M-line Titins Results in Cardiomyopathy with Altered Sarcomere Structure. Journal of Biological Chemistry, 2003, 278, 6059-6065.	3.4	118
69	The low-density-lipoprotein receptor-related protein (LRP) is processed by furin in vivo and in vitro. Biochemical Journal, 1996, 313, 71-76.	3.7	117
70	Origins of Peptide Selectivity and Phosphoinositide Binding Revealed by Structures of Disabled-1 PTB Domain Complexes. Structure, 2003, 11, 569-579.	3.3	117
71	Î³-Secretase Limits the Inflammatory Response Through the Processing of LRP1. Science Signaling, 2008, 1, ra15.	3.6	116
72	Activity-dependent FUS dysregulation disrupts synaptic homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4769-78.	7.1	116

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73	Emerging topics in Reelin function. European Journal of Neuroscience, 2010, 31, 1511-1518.	2.6	115
74	Genome-wide RNAi screen reveals ALK1 mediates LDL uptake and transcytosis in endothelial cells. Nature Communications, 2016, 7, 13516.	12.8	115
75	Proteomic Analysis of GLUT4 Storage Vesicles Reveals LRP1 to Be an Important Vesicle Component and Target of Insulin Signaling. Journal of Biological Chemistry, 2010, 285, 104-114.	3.4	113
76	ApoE, ApoE Receptors, and the Synapse in Alzheimer's Disease. Trends in Endocrinology and Metabolism, 2017, 28, 273-284.	7.1	112
77	Elevated plasma factor VIII in a mouse model of low-density lipoprotein receptorâ€“related protein deficiency. Blood, 2003, 101, 3933-3939.	1.4	111
78	LRP1 Functions as an Atheroprotective Integrator of TGFÎ² and PDGF Signals in the Vascular Wall: Implications for Marfan Syndrome. PLoS ONE, 2007, 2, e448.	2.5	110
79	Efficient construction of cDNA libraries in plasmid expression vectors using an adaptor strategy. Nucleic Acids Research, 1986, 14, 8615-8624.	14.5	107
80	Reelin and Cyclin-Dependent Kinase 5-Dependent Signals Cooperate in Regulating Neuronal Migration and Synaptic Transmission. Journal of Neuroscience, 2004, 24, 1897-1906.	3.6	107
81	LRP1 Controls Intracellular Cholesterol Storage and Fatty Acid Synthesis through Modulation of Wnt Signaling. Journal of Biological Chemistry, 2009, 284, 381-388.	3.4	106
82	Reelin Mobilizes a VAMP7-Dependent Synaptic Vesicle Pool and Selectively Augments Spontaneous Neurotransmission. Neuron, 2013, 80, 934-946.	8.1	106
83	Functional Dissection of Reelin Signaling by Site-Directed Disruption of Disabled-1 Adaptor Binding to Apolipoprotein E Receptor 2: Distinct Roles in Development and Synaptic Plasticity. Journal of Neuroscience, 2006, 26, 2041-2052.	3.6	105
84	Lipoprotein receptors â€“ an evolutionarily ancient multifunctional receptor family. Biological Chemistry, 2010, 391, 1341-63.	2.5	103
85	Lymphoangiocrine signals promote cardiac growth and repair. Nature, 2020, 588, 705-711.	27.8	103
86	Signaling through LRP1: Protection from atherosclerosis and beyond. Biochemical Pharmacology, 2011, 81, 1-5.	4.4	101
87	Reelin: Neurodevelopmental Architect and Homeostatic Regulator of Excitatory Synapses. Journal of Biological Chemistry, 2017, 292, 1330-1338.	3.4	98
88	Lipidomic and Transcriptomic Basis of Lysosomal Dysfunction in Progranulin Deficiency. Cell Reports, 2017, 20, 2565-2574.	6.4	98
89	Apolipoprotein E Receptors Are Required for Reelin-induced Proteasomal Degradation of the Neuronal Adaptor Protein Disabled-1. Journal of Biological Chemistry, 2004, 279, 33471-33479.	3.4	97
90	Essential Role of the Apolipoprotein E Receptor-2 in Sperm Development. Journal of Biological Chemistry, 2003, 278, 23989-23995.	3.4	95

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91	Early retinal neurodegeneration and impaired Ran-mediated nuclear import of TDP-43 in progranulin-deficient FTLD. Journal of Experimental Medicine, 2014, 211, 1937-1945.	8.5	94
92	Malformation of the radial glial scaffold in the dentate gyrus of reeler mice, scrambler mice, and ApoER2/VLDLRâ€deficient mice. Journal of Comparative Neurology, 2003, 460, 56-65.	1.6	91
93	An AXL/LRP-1/RANBP9 complex mediates DC efferocytosis and antigen cross-presentation in vivo. Journal of Clinical Investigation, 2014, 124, 1296-1308.	8.2	91
94	The Pro-Neurotrophin Receptor Sortilin Is a Major Neuronal Apolipoprotein E Receptor for Catabolism of Amyloid-Î² Peptide in the Brain. Journal of Neuroscience, 2013, 33, 358-370.	3.6	86
95	Normal Sorting but Defective Endocytosis of the Low Density Lipoprotein Receptor in Mice with Autosomal Recessive Hypercholesterolemia. Journal of Biological Chemistry, 2003, 278, 29024-29030.	3.4	85
96	Progranulin Does Not Bind Tumor Necrosis Factor (TNF) Receptors and Is Not a Direct Regulator of TNF-Dependent Signaling or Bioactivity in Immune or Neuronal Cells. Journal of Neuroscience, 2013, 33, 9202-9213.	3.6	85
97	A Bull's Eye for Targeted Lung Cancer Therapy. Science, 2004, 304, 1458-1461.	12.6	84
98	Lipoprotein and receptor interactions in vivo. Current Opinion in Lipidology, 1995, 6, 97-103.	2.7	83
99	Low Density Lipoprotein Receptor-related Protein 1 (LRP1) Controls Endocytosis and c-CBL-mediated Ubiquitination of the Platelet-derived Growth Factor Receptor Î² (PDGFRÎ²). Journal of Biological Chemistry, 2005, 280, 18504-18510.	3.4	83
100	LRP1 is a receptor for Clostridium perfringens TpeL toxin indicating a two-receptor model of clostridial glycosylating toxins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6431-6436.	7.1	82
101	Genetic Restoration of Plasma ApoE Improves Cognition and Partially Restores Synaptic Defects in ApoE-Deficient Mice. Journal of Neuroscience, 2016, 36, 10141-10150.	3.6	81
102	Genetic Modulation of Tau Phosphorylation in the Mouse. Journal of Neuroscience, 2003, 23, 187-192.	3.6	80
103	The Modular Adaptor Protein Autosomal Recessive Hypercholesterolemia (ARH) Promotes Low Density Lipoprotein Receptor Clustering into Clathrin-coated Pits. Journal of Biological Chemistry, 2005, 280, 40996-41004.	3.4	80
104	ApoE Receptor 2 Controls Neuronal Survival in the Adult Brain. Current Biology, 2006, 16, 2446-2452.	3.9	78
105	Reelin protects against amyloid Î² toxicity in vivo. Science Signaling, 2015, 8, ra67.	3.6	78
106	News on the molecular regulation and function of hepatic low-density lipoprotein receptor and LDLR-related protein 1. Current Opinion in Lipidology, 2017, 28, 241-247.	2.7	76
107	LRP1 integrates murine macrophage cholesterol homeostasis and inflammatory responses in atherosclerosis. ELife, 2017, 6, .	6.0	76
108	Reelin Signals through Apolipoprotein E Receptor 2 and Cdc42 to Increase Growth Cone Motility and Filopodia Formation. Journal of Neuroscience, 2010, 30, 14759-14772.	3.6	75

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109	Origin, maturation, and astroglial transformation of secondary radial glial cells in the developing dentate gyrus. Glia, 2010, 58, 1553-1569.	4.9	74
110	The nuclear hormone receptor PPARÎ³ counteracts vascular calcification by inhibiting Wnt5a signalling in vascular smooth muscle cells. Nature Communications, 2012, 3, 1077.	12.8	73
111	The LDL-receptor-related protein ??? portrait of a multifunctional receptor. Current Opinion in Lipidology, 1993, 4, 107-113.	2.7	72
112	The LDL receptor gene family: signaling functions during development. Current Opinion in Neurobiology, 2001, 11, 74-81.	4.2	72
113	Constitutive and ligand-induced EGFR signalling triggers distinct and mutually exclusive downstream signalling networks. Nature Communications, 2014, 5, 5811.	12.8	72
114	Trypanosoma cruzi Utilizes the Host Low Density Lipoprotein Receptor in Invasion. PLoS Neglected Tropical Diseases, 2011, 5, e953.	3.0	71
115	Apolipoprotein E receptors in the nervous system. Current Opinion in Lipidology, 2009, 20, 190-196.	2.7	70
116	Lipoprotein Receptor LRP1 Regulates Leptin Signaling and Energy Homeostasis in the Adult Central Nervous System. PLoS Biology, 2011, 9, e1000575.	5.6	70
117	Cellular signalling by lipoprotein receptors. Current Opinion in Lipidology, 2000, 11, 161-166.	2.7	69
118	Expanding functions of lipoprotein receptors. Journal of Lipid Research, 2009, 50, S287-S292.	4.2	69
119	TDP-43 in central nervous system development and function: clues to TDP-43-associated neurodegeneration. Biological Chemistry, 2012, 393, 589-594.	2.5	69
120	Coaxing the LDL Receptor Family into the Fold. Cell, 2003, 112, 289-292.	28.9	68
121	Prosaposin is a regulator of progranulin levels and oligomerization. Nature Communications, 2016, 7, 11992.	12.8	68
122	Two Receptor Systems Are Involved in the Plasma Clearance of Tissue Factor Pathway Inhibitor in Vivo. Journal of Biological Chemistry, 1995, 270, 24800-24804.	3.4	67
123	Normal Development and Fertility of Knockout Mice Lacking the Tumor Suppressor Gene LRP1b Suggest Functional Compensation by LRP1. Molecular and Cellular Biology, 2004, 24, 3782-3793.	2.3	67
124	Low Density Lipoprotein Receptor-related Protein 1 (LRP1) Modulates N-Methyl-d-aspartate (NMDA) Receptor-dependent Intracellular Signaling and NMDA-induced Regulation of Postsynaptic Protein Complexes. Journal of Biological Chemistry, 2013, 288, 21909-21923.	3.4	65
125	Structure and biosynthesis of the signal-sequence receptor. FEBS Journal, 1990, 188, 439-445.	0.2	64
126	The ApoE receptors Vldlr and Apoer2 in central nervous system function and disease. Journal of Lipid Research, 2017, 58, 1036-1043.	4.2	64

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127	The Major Subunit of the Asialoglycoprotein Receptor Is Expressed on the Hepatocellular Surface in Mice Lacking the Minor Receptor Subunit. Journal of Biological Chemistry, 1996, 271, 21160-21166.	3.4	63
128	Reelin induces EphB activation. Cell Research, 2013, 23, 473-490.	12.0	62
129	Reversal of ApoE4-induced recycling block as a novel prevention approach for Alzheimerâ€™s disease. ELife, 2018, 7, .	6.0	62
130	LRP1 Regulates Architecture of the Vascular Wall by Controlling PDGFRÎ²-Dependent Phosphatidylinositol 3-Kinase Activation. PLoS ONE, 2009, 4, e6922.	2.5	61
131	Mutations in VLDLR as a Cause for Autosomal Recessive Cerebellar Ataxia With Mental Retardation (Dysequilibrium Syndrome). Journal of Child Neurology, 2009, 24, 1310-1315.	1.4	60
132	LDL Receptorâ€Related Proteins in Neurodevelopment. Traffic, 2003, 4, 291-301.	2.7	59
133	Endothelial LRP1 protects against neurodegeneration by blocking cyclophilin A. Journal of Experimental Medicine, 2021, 218, .	8.5	59
134	Low-Density Lipoprotein Receptor-Related Protein-1 Protects Against Hepatic Insulin Resistance and Hepatic Steatosis. EBioMedicine, 2016, 7, 135-145.	6.1	58
135	Functional Roles of the Interaction of APP and Lipoprotein Receptors. Frontiers in Molecular Neuroscience, 2017, 10, 54.	2.9	58
136	Differential Recognition of Î±1-Antitrypsin-Elastase and Î±1-Antichymotrypsin-Cathepsin G Complexes by the Low Density Lipoprotein Receptor-related Protein. Journal of Biological Chemistry, 1995, 270, 2841-2845.	3.4	57
137	The Pafah1b Complex Interacts with the Reelin Receptor VLDLR. PLoS ONE, 2007, 2, e252.	2.5	57
138	APP interacts with LRP4 and agrin to coordinate the development of the neuromuscular junction in mice. ELife, 2013, 2, e00220.	6.0	57
139	ApoE Receptor 2 Mediation of Trophoblast Dysfunction and Pregnancy Complications Induced by Antiphospholipid Antibodies in Mice. Arthritis and Rheumatology, 2016, 68, 730-739.	5.6	56
140	Lrp4 Regulates Initiation of Ureteric Budding and Is Crucial for Kidney Formation â€“ A Mouse Model for Cenani-Lenz Syndrome. PLoS ONE, 2010, 5, e10418.	2.5	54
141	Avian and Murine LR8B and Human Apolipoprotein E Receptor 2: Differentially Spliced Products from Corresponding Genes. Genomics, 1997, 42, 185-191.	2.9	52
142	Defective splicing of Megf7/Lrp4, a regulator of distal limb development, in autosomal recessive mulefoot disease. Genomics, 2006, 88, 600-609.	2.9	52
143	A role for suppressed incisor cuspal morphogenesis in the evolution of mammalian heterodont dentition. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 92-97.	7.1	51
144	Disruption of LDL but not VLDL clearance in autosomal recessive hypercholesterolemia. Journal of Clinical Investigation, 2007, 117, 165-174.	8.2	51

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145	Antiphospholipid antibodies induce thrombosis by PP2A activation via apoER2-Dab2-SHC1 complex formation in endothelium. Blood, 2018, 131, 2097-2110.	1.4	50
146	LRP: a bright beacon at the blood-brain barrier. Journal of Clinical Investigation, 2003, 112, 1483-1485.	8.2	50
147	Genetic variants of ApoE and ApoER2 differentially modulate endothelial function. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13493-13498.	7.1	49
148	Differential splicing and glycosylation of Apoer2 alters synaptic plasticity and fear learning. Science Signaling, 2014, 7, ra113.	3.6	46
149	Loss of Reelin protects against atherosclerosis by reducing leukocyteâ€“endothelial cell adhesion and lesion macrophage accumulation. Science Signaling, 2016, 9, ra29.	3.6	46
150	Agrin mediates chondrocyte homeostasis and requires both LRP4 and Î±-dystroglycan to enhance cartilage formation in vitro and in vivo. Annals of the Rheumatic Diseases, 2016, 75, 1228-1235.	0.9	46
151	LRP1 Deficiency in Vascular SMC Leads to Pulmonary Arterial Hypertension That Is Reversed by PPARÎ³ Activation. Circulation Research, 2019, 124, 1778-1785.	4.5	46
152	The Reelin Receptors Apoer2 and Vldlr Coordinate the Patterning of Purkinje Cell Topography in the Developing Mouse Cerebellum. PLoS ONE, 2008, 3, e1653.	2.5	45
153	Lrp1 in osteoblasts controls osteoclast activity and protects against osteoporosis by limiting PDGFâ€“RANKL signaling. Bone Research, 2018, 6, 4.	11.4	45
154	Serum amyloid A delivers retinol to intestinal myeloid cells to promote adaptive immunity. Science, 2021, 373, eabf9232.	12.6	45
155	Smooth Muscle LDL Receptor-Related Protein-1 Inactivation Reduces Vascular Reactivity and Promotes Injury-Induced Neointima Formation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1772-1778.	2.4	42
156	The lipoprotein receptor LRP1 modulates sphingosine-1-phosphate signaling and is essential for vascular development. Development (Cambridge), 2014, 141, 4513-4525.	2.5	41
157	Imaging subcellular dynamics with fast and light-efficient volumetrically parallelized microscopy. Optica, 2017, 4, 263.	9.3	41
158	The Low Density Lipoprotein Receptor-related Protein Can Function Independently from Heparan Sulfate Proteoglycans in Tissue Factor Pathway Inhibitor Endocytosis. Journal of Biological Chemistry, 1996, 271, 25873-25879.	3.4	40
159	Characterization and Distribution of Reelin-Positive Interneuron Subtypes in the Rat Barrel Cortex. Cerebral Cortex, 2014, 24, 3046-3058.	2.9	39
160	C1 Inhibitor-C1Â¯s Complexes Are Internalized and Degraded by the Low Density Lipoprotein Receptor-related Protein. Journal of Biological Chemistry, 1997, 272, 31043-31050.	3.4	38
161	Ectodomains of the LDL Receptor-Related Proteins LRP1b and LRP4 Have Anchorage Independent Functions In Vivo. PLoS ONE, 2010, 5, e9960.	2.5	37
162	An Extrahepatic Receptor-associated Protein-sensitive Mechanism Is Involved in the Metabolism of Triglyceride-rich Lipoproteins. Journal of Biological Chemistry, 1999, 274, 35219-35226.	3.4	36

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163	Phosphoinositide Binding by the Disabled-1 PTB Domain Is Necessary for Membrane Localization and Reelin Signal Transduction. Journal of Biological Chemistry, 2005, 280, 9671-9677.	3.4	36
164	Hepatic low-density lipoprotein receptorâ€“related protein deficiency in mice increases atherosclerosis independent of plasma cholesterol. Blood, 2004, 103, 3777-3782.	1.4	35
165	LRP1 Controls cPLA2 Phosphorylation, ABCA1 Expression and Cellular Cholesterol Export. PLoS ONE, 2009, 4, e6853.	2.5	35
166	Expression of a recombinant full-length LRP1B receptor in human non-small cell lung cancer cells confirms the postulated growth-suppressing function of this large LDL receptor family member. Oncotarget, 2016, 7, 68721-68733.	1.8	35
167	Intracellular lipid metabolism impairs Î² cell compensation during diet-induced obesity. Journal of Clinical Investigation, 2018, 128, 1178-1189.	8.2	33
168	The 68 kDa protein of signal recognition particle contains a glycine-rich region also found in certain RNA-binding proteins. FEBS Letters, 1990, 276, 103-107.	2.8	32
169	Role of Smooth Muscle cGMP/cGKI Signaling in Murine Vascular Restenosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1244-1250.	2.4	32
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