Joachim Herz

List of Publications by Year in Descending Order

227 papers	26,763 citations	82 h-index	160 g-index
250 ext. papers	29,502 ext. citations	10.3 avg, IF	6.78 L-index

#	Paper	IF	Citations
227	Interplay of Low-Density Lipoprotein Receptors, LRPs, and Lipoproteins in Pulmonary Hypertension.. *JACC Basic To Translational Science*, **2022**, 7, 164-180	8.7	0
226	Reelin Depletion Protects Against Atherosclerosis by Decreasing Vascular Adhesion of Leukocytes. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 1309-1318	9.4	3
225	Reelin signaling modulates GABA receptor function in the neocortex. *Journal of Neurochemistry*, **2021**, 156, 589-603	6	3
224	Endothelial LRP1 protects against neurodegeneration by blocking cyclophilin A. *Journal of Experimental Medicine*, **2021**, 218,	16.6	17
223	CD11cCD88CD317 myeloid cells are critical mediators of persistent CNS autoimmunity. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
222	Reelin Regulates Neuronal Excitability through Striatal-Enriched Protein Tyrosine Phosphatase (STEP) and Calcium Permeable AMPARs in an NMDAR-Dependent Manner. *Journal of Neuroscience*, **2021**, 41, 7340-7349	6.6	1
221	Apolipoprotein E receptor 2 deficiency decreases endothelial adhesion of monocytes and protects against autoimmune encephalomyelitis. *Science Immunology*, **2021**, 6,	28	1
220	Reelin changes hippocampal learning in aging and Alzheimer's disease. *Behavioural Brain Research*, **2021**, 414, 113482	3.4	2
219	Serum amyloid A delivers retinol to intestinal myeloid cells to promote adaptive immunity. *Science*, **2021**, 373, eabf9232	33.3	12
218	Protein Phosphatase 2A Activation Via ApoER2 in Trophoblasts Drives Preeclampsia in a Mouse Model of the Antiphospholipid Syndrome. *Circulation Research*, **2021**, 129, 735-750	15.7	1
217	Lymphoangiocrine signals promote cardiac growth and repair. *Nature*, **2020**, 588, 705-711	50.4	36
216	Biolistic transfection and expression analysis of acute cortical slices. *Journal of Neuroscience Methods*, **2020**, 337, 108666	3	1
215	Sodium-hydrogen exchanger 6 (NHE6) deficiency leads to hearing loss, via reduced endosomal signalling through the BDNF/Trk pathway. *Scientific Reports*, **2020**, 10, 3609	4.9	4
214	Selective Inactivation of Reelin in Inhibitory Interneurons Leads to Subtle Changes in the Dentate Gyrus But Leaves Cortical Layering and Behavior Unaffected. *Cerebral Cortex*, **2020**, 30, 1688-1707	5.1	7
213	Reelin depletion protects against autoimmune encephalomyelitis by decreasing vascular adhesion of leukocytes. *Science Translational Medicine*, **2020**, 12,	17.5	7
212	LRP1 Deficiency in Vascular SMC Leads to Pulmonary Arterial Hypertension That Is Reversed by PPAR Activation. *Circulation Research*, **2019**, 124, 1778-1785	15.7	28
211	Kinetic Tuning of HDAC Inhibitors Affords Potent Inducers of Progranulin Expression. *ACS Chemical Neuroscience*, **2019**, 10, 3769-3777	5.7	5

210	NGP 555, a β-secretase modulator, shows a beneficial shift in the ratio of amyloid biomarkers in human cerebrospinal fluid at safe doses. *Alzheimer's and Dementia: Translational Research and Clinical Interventions*, **2019**, 5, 458-467	6	2
209	Lrp1 in osteoblasts controls osteoclast activity and protects against osteoporosis by limiting PDGF-RANKL signaling. *Bone Research*, **2018**, 6, 4	13.3	24
208	Antiphospholipid antibodies induce thrombosis by PP2A activation via apoER2-Dab2-SHC1 complex formation in endothelium. *Blood*, **2018**, 131, 2097-2110	2.2	29
207	Loss of the adaptor protein ShcA in endothelial cells protects against monocyte macrophage adhesion, LDL-oxydation, and atherosclerotic lesion formation. *Scientific Reports*, **2018**, 8, 4501	4.9	7
206	Low-density lipoprotein receptor-related protein-1 dysfunction synergizes with dietary cholesterol to accelerate steatohepatitis progression. *Journal of Biological Chemistry*, **2018**, 293, 9674-9684	5.4	14
205	Distal Dendritic Enrichment of HCN1 Channels in Hippocampal CA1 Is Promoted by Estrogen, but Does Not Require Reelin. *ENeuro*, **2018**, 5,	3.9	9
204	Reversal of ApoE4-induced recycling block as a novel prevention approach for Alzheimer's disease. *ELife*, **2018**, 7,	8.9	30
203	Intracellular lipid metabolism impairs β-cell compensation during diet-induced obesity. *Journal of Clinical Investigation*, **2018**, 128, 1178-1189	15.9	23
202	Lrp4/Wise regulates palatal rugae development through Turing-type reaction-diffusion mechanisms. *PLoS ONE*, **2018**, 13, e0204126	3.7	8
201	Blood-brain barrier-associated pericytes internalize and clear aggregated amyloid-β42 by LRP1-dependent apolipoprotein E isoform-specific mechanism. *Molecular Neurodegeneration*, **2018**, 13, 57	19	94
200	NGP 555, a β-Secretase Modulator, Lowers the Amyloid Biomarker, Aβ in Cerebrospinal Fluid while Preventing Alzheimer's Disease Cognitive Decline in Rodents. *Alzheimer's and Dementia: Translational Research and Clinical Interventions*, **2017**, 3, 65-73	6	21
199	ApoE, ApoE Receptors, and the Synapse in Alzheimer's Disease. *Trends in Endocrinology and Metabolism*, **2017**, 28, 273-284	8.8	65
198	Reelin: Neurodevelopmental Architect and Homeostatic Regulator of Excitatory Synapses. *Journal of Biological Chemistry*, **2017**, 292, 1330-1338	5.4	52
197	A Consensus Definitive Classification of Scavenger Receptors and Their Roles in Health and Disease. *Journal of Immunology*, **2017**, 198, 3775-3789	5.3	165
196	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	4.4	53
195	The ApoE receptors Vldlr and Apoer2 in central nervous system function and disease. *Journal of Lipid Research*, **2017**, 58, 1036-1043	6.3	38
194	LRP1 integrates murine macrophage cholesterol homeostasis and inflammatory responses in atherosclerosis. *ELife*, **2017**, 6,	8.9	48
193	Imaging Subcellular Dynamics with Fast and Light-Efficient Volumetrically Parallelized Microscopy. *Optica*, **2017**, 4, 263-271	8.6	32

192	Lipidomic and Transcriptomic Basis of Lysosomal Dysfunction in Progranulin Deficiency. *Cell Reports*, **2017**, 20, 2565-2574	10.6	65
191	Selectivity and Kinetic Requirements of HDAC Inhibitors as Progranulin Enhancers for Treating Frontotemporal Dementia. *Cell Chemical Biology*, **2017**, 24, 892-906.e5	8.2	29
190	Functional Roles of the Interaction of APP and Lipoprotein Receptors. *Frontiers in Molecular Neuroscience*, **2017**, 10, 54	6.1	31
189	Building a better blood-brain barrier. *ELife*, **2017**, 6,	8.9	3
188	Ephrin Bs and canonical Reelin signalling. *Nature*, **2016**, 539, E4-E6	50.4	9
187	Prosaposin is a regulator of progranulin levels and oligomerization. *Nature Communications*, **2016**, 7, 11992	17.4	49
186	Genome-wide RNAi screen reveals ALK1 mediates LDL uptake and transcytosis in endothelial cells. *Nature Communications*, **2016**, 7, 13516	17.4	73
185	Loss of Reelin protects against atherosclerosis by reducing leukocyte-endothelial cell adhesion and lesion macrophage accumulation. *Science Signaling*, **2016**, 9, ra29	8.8	26
184	ApoE Receptor 2 Mediation of Trophoblast Dysfunction and Pregnancy Complications Induced by Antiphospholipid Antibodies in Mice. *Arthritis and Rheumatology*, **2016**, 68, 730-739	9.5	39
183	Agrin mediates chondrocyte homeostasis and requires both LRP4 and □dystroglycan to enhance cartilage formation in vitro and in vivo. *Annals of the Rheumatic Diseases*, **2016**, 75, 1228-35	2.4	34
182	Convergent Signaling Pathways Controlled by LRP1 (Receptor-related Protein 1) Cytoplasmic and Extracellular Domains Limit Cellular Cholesterol Accumulation. *Journal of Biological Chemistry*, **2016**, 291, 5116-27	5.4	21
181	High-Fat Diet Changes Hippocampal Apolipoprotein E (ApoE) in a Genotype- and Carbohydrate-Dependent Manner in Mice. *PLoS ONE*, **2016**, 11, e0148099	3.7	13
180	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	3.3	22
179	Splicing therapeutics for Alzheimer□s disease. *EMBO Molecular Medicine*, **2016**, 8, 308-10	12	4
178	Low-Density Lipoprotein Receptor-Related Protein-1 Protects Against Hepatic Insulin Resistance and Hepatic Steatosis. *EBioMedicine*, **2016**, 7, 135-45	8.8	34
177	Physiologic Reelin does not play a strong role in protection against acute stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2016**, 36, 1295-303	7.3	5
176	Genetic Restoration of Plasma ApoE Improves Cognition and Partially Restores Synaptic Defects in ApoE-Deficient Mice. *Journal of Neuroscience*, **2016**, 36, 10141-50	6.6	51
175	Reelin protects against amyloid □toxicity in vivo. *Science Signaling*, **2015**, 8, ra67	8.8	62

174	Lrp4 domains differentially regulate limb/brain development and synaptic plasticity. *PLoS ONE*, **2015**, 10, e0116701	3.7	14
173	FE65 and FE65L1 amyloid precursor protein-binding protein compound null mice display adult-onset cataract and muscle weakness. *FASEB Journal*, **2015**, 29, 2628-39	0.9	5
172	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, 13493-8	11.5	37
171	Early retinal neurodegeneration and impaired Ran-mediated nuclear import of TDP-43 in progranulin-deficient FTLD. *Journal of Experimental Medicine*, **2014**, 211, 1937-45	16.6	67
170	More than cholesterol transporters: lipoprotein receptors in CNS function and neurodegeneration. *Neuron*, **2014**, 83, 771-87	13.9	90
169	Standardizing scavenger receptor nomenclature. *Journal of Immunology*, **2014**, 192, 1997-2006	5.3	125
168	Generation and characterization of an Nse-CreERT2 transgenic line suitable for inducible gene manipulation in cerebellar granule cells. *PLoS ONE*, **2014**, 9, e100384	3.7	7
167	Activity-dependent FUS dysregulation disrupts synaptic homeostasis. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4769-78	11.5	82
166	Characterization and distribution of Reelin-positive interneuron subtypes in the rat barrel cortex. *Cerebral Cortex*, **2014**, 24, 3046-58	5.1	27
165	Differential splicing and glycosylation of Apoer2 alters synaptic plasticity and fear learning. *Science Signaling*, **2014**, 7, ra113	8.8	27
164	Constitutive and ligand-induced EGFR signalling triggers distinct and mutually exclusive downstream signalling networks. *Nature Communications*, **2014**, 5, 5811	17.4	53
163	The lipoprotein receptor LRP1 modulates sphingosine-1-phosphate signaling and is essential for vascular development. *Development (Cambridge)*, **2014**, 141, 4513-25	6.6	29
162	Antiphospholipid antibodies attenuate endothelial repair and promote neointima formation in mice. *Journal of the American Heart Association*, **2014**, 3, e001369	6	13
161	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, 6431-6	11.5	64
160	An AXL/LRP-1/RANBP9 complex mediates DC efferocytosis and antigen cross-presentation in vivo. *Journal of Clinical Investigation*, **2014**, 124, 1296-308	15.9	63
159	Involvement of the Apoer2 and Lrp1 receptors in mediating the pathological effects of ApoE4 in vivo. *Current Alzheimer Research*, **2014**, 11, 549-57	3	23
158	Human apolipoprotein E isoforms differentially affect bone mass and turnover in vivo. *Journal of Bone and Mineral Research*, **2013**, 28, 236-45	6.3	17
157	Reelin mobilizes a VAMP7-dependent synaptic vesicle pool and selectively augments spontaneous neurotransmission. *Neuron*, **2013**, 80, 934-46	13.9	93

156	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, 21909-23	5.4	47
155	The pro-neurotrophin receptor sortilin is a major neuronal apolipoprotein E receptor for catabolism of amyloid-peptide in the brain. *Journal of Neuroscience*, **2013**, 33, 358-70	6.6	62
154	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, 9202-13	6.6	71
153	Reelin induces EphB activation. *Cell Research*, **2013**, 23, 473-90	24.7	51
152	Secreted progranulin is a homodimer and is not a component of high density lipoproteins (HDL). *Journal of Biological Chemistry*, **2013**, 288, 8627-8635	5.4	12
151	Role of the postnatal radial glial scaffold for the development of the dentate gyrus as revealed by Reelin signaling mutant mice. *Glia*, **2013**, 61, 1347-63	9	21
150	APP interacts with LRP4 and agrin to coordinate the development of the neuromuscular junction in mice. *ELife*, **2013**, 2, e00220	8.9	47
149	TDP-43 aggregation in neurodegeneration: are stress granules the key?. *Brain Research*, **2012**, 1462, 16-25	3.7	151
148	TDP-43 in central nervous system development and function: clues to TDP-43-associated neurodegeneration. *Biological Chemistry*, **2012**, 393, 589-94	4.5	55
147	The nuclear hormone receptor PPARcounteracts vascular calcification by inhibiting Wnt5a signalling in vascular smooth muscle cells. *Nature Communications*, **2012**, 3, 1077	17.4	63
146	Reelin controls neuronal positioning by promoting cell-matrix adhesion via inside-out activation of integrin 51. *Neuron*, **2012**, 76, 353-69	13.9	120
145	Apolipoprotein E and apolipoprotein E receptors: normal biology and roles in Alzheimer disease. *Cold Spring Harbor Perspectives in Medicine*, **2012**, 2, a006312	5.4	497
144	Wnt signaling in the murine diastema. *European Journal of Orthodontics*, **2012**, 34, 518-24	3.3	14
143	Progranulin: a proteolytically processed protein at the crossroads of inflammation and neurodegeneration. *Journal of Biological Chemistry*, **2012**, 287, 32298-306	5.4	149
142	Extracting amyloid from Alzheimers disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 3199-200	11.5	12
141	Identification of neuronal RNA targets of TDP-43-containing ribonucleoprotein complexes. *Journal of Biological Chemistry*, **2011**, 286, 1204-15	5.4	306
140	Signaling through LRP1: Protection from atherosclerosis and beyond. *Biochemical Pharmacology*, **2011**, 81, 1-5	6	74
139	Apolipoprotein E induces antiinflammatory phenotype in macrophages. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 1160-8	9.4	202

138	Suberoylanilide hydroxamic acid (vorinostat) up-regulates progranulin transcription: rational therapeutic approach to frontotemporal dementia. *Journal of Biological Chemistry*, **2011**, 286, 16101-8	5.4	121
137	Differential signaling by adaptor molecules LRP1 and ShcA regulates adipogenesis by the insulin-like growth factor-1 receptor. *Journal of Biological Chemistry*, **2011**, 286, 16775-82	5.4	24
136	TDP-43 is directed to stress granules by sorbitol, a novel physiological osmotic and oxidative stressor. *Molecular and Cellular Biology*, **2011**, 31, 1098-108	4.8	232
135	ApoER2 function in the establishment and maintenance of retinal synaptic connectivity. *Journal of Neuroscience*, **2011**, 31, 14413-23	6.6	22
134	Lipoprotein receptor LRP1 regulates leptin signaling and energy homeostasis in the adult central nervous system. *PLoS Biology*, **2011**, 9, e1000575	9.7	59
133	Trypanosoma cruzi utilizes the host low density lipoprotein receptor in invasion. *PLoS Neglected Tropical Diseases*, **2011**, 5, e953	4.8	61
132	Antiphospholipid antibodies promote leukocyte-endothelial cell adhesion and thrombosis in mice by antagonizing eNOS via β2GPI and apoER2. *Journal of Clinical Investigation*, **2011**, 121, 120-31	15.9	131
131	Emerging topics in Reelin function. *European Journal of Neuroscience*, **2010**, 31, 1511-8	3.5	102
130	Lrp4 regulates initiation of ureteric budding and is crucial for kidney formation--a mouse model for Cenani-Lenz syndrome. *PLoS ONE*, **2010**, 5, e10418	3.7	45
129	Ectodomains of the LDL receptor-related proteins LRP1b and LRP4 have anchorage independent functions in vivo. *PLoS ONE*, **2010**, 5, e9960	3.7	31
128	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, 12011-6	11.5	233
127	Reelin signals through apolipoprotein E receptor 2 and Cdc42 to increase growth cone motility and filopodia formation. *Journal of Neuroscience*, **2010**, 30, 14759-72	6.6	58
126	TDP-43 is a developmentally regulated protein essential for early embryonic development. *Journal of Biological Chemistry*, **2010**, 285, 6826-34	5.4	262
125	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, 92-7	11.5	35
124	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, 104-14	5.4	97
123	Lipoprotein receptors--an evolutionarily ancient multifunctional receptor family. *Biological Chemistry*, **2010**, 391, 1341-63	4.5	81
122	LRP4 mutations alter Wnt/beta-catenin signaling and cause limb and kidney malformations in Cenani-Lenz syndrome. *American Journal of Human Genetics*, **2010**, 86, 696-706	11	127
121	Origin, maturation, and astroglial transformation of secondary radial glial cells in the developing dentate gyrus. *Glia*, **2010**, 58, 1553-69	9	68

120	LRP1 controls cPLA2 phosphorylation, ABCA1 expression and cellular cholesterol export. *PLoS ONE*, **2009**, 4, e6853	3.7	32
119	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	3.7	156
118	Expanding functions of lipoprotein receptors. *Journal of Lipid Research*, **2009**, 50 Suppl, S287-92	6.3	55
117	LRP1 controls intracellular cholesterol storage and fatty acid synthesis through modulation of Wnt signaling. *Journal of Biological Chemistry*, **2009**, 284, 381-388	5.4	89
116	Smooth muscle LDL receptor-related protein-1 inactivation reduces vascular reactivity and promotes injury-induced neointima formation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 1772-8	9.4	33
115	Mutations in VLDLR as a cause for autosomal recessive cerebellar ataxia with mental retardation (dysequilibrium syndrome). *Journal of Child Neurology*, **2009**, 24, 1310-5	2.5	55
114	Reelin signaling antagonizes beta-amyloid at the synapse. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 15938-43	11.5	117
113	Apolipoprotein E receptors in the nervous system. *Current Opinion in Lipidology*, **2009**, 20, 190-6	4.4	56
112	LRP1 regulates architecture of the vascular wall by controlling PDGFRbeta-dependent phosphatidylinositol 3-kinase activation. *PLoS ONE*, **2009**, 4, e6922	3.7	52
111	Antiphospholipid Antibodies Promote Leukocyte-Endothelial Cell Adhesion by Antagonizing Endothelial NO Synthase Via b2GPI and ApoER2.. *Blood*, **2009**, 114, 3039-3039	2.2	
110	Contribution of the Reelin signaling pathways to nociceptive processing. *European Journal of Neuroscience*, **2008**, 27, 523-37	3.5	16
109	"Devolution" of bipedality. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, E25	11.5	13
108	Role of smooth muscle cGMP/cGKI signaling in murine vascular restenosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 1244-50	9.4	29
107	Gamma-secretase limits the inflammatory response through the processing of LRP1. *Science Signaling*, **2008**, 1, ra15	8.8	95
106	The Reelin receptors Apoer2 and Vldlr coordinate the patterning of Purkinje cell topography in the developing mouse cerebellum. *PLoS ONE*, **2008**, 3, e1653	3.7	42
105	Lrp4 modulates extracellular integration of cell signaling pathways in development. *PLoS ONE*, **2008**, 3, e4092	3.7	147
104	The Pafah1b complex interacts with the reelin receptor VLDLR. *PLoS ONE*, **2007**, 2, e252	3.7	52
103	Overview: the long and winding road to understanding Alzheimer's disease. *Neuron*, **2007**, 53, 477-9	13.9	7

102	Amyloid precursor protein regulates brain apolipoprotein E and cholesterol metabolism through lipoprotein receptor LRP1. *Neuron*, **2007**, 56, 66-78	13.9	285
101	Disruption of LDL but not VLDL clearance in autosomal recessive hypercholesterolemia. *Journal of Clinical Investigation*, **2007**, 117, 165-74	15.9	45
100	Adipocyte LDL receptor-related protein-1 expression modulates postprandial lipid transport and glucose homeostasis in mice. *Journal of Clinical Investigation*, **2007**, 117, 3271-82	15.9	118
99	LRP1 functions as an atheroprotective integrator of TGFbeta and PDFG signals in the vascular wall: implications for Marfan syndrome. *PLoS ONE*, **2007**, 2, e448	3.7	91
98	ApoE receptor 2 controls neuronal survival in the adult brain. *Current Biology*, **2006**, 16, 2446-52	6.3	63
97	Activation of ERK signaling upon alternative protease nexin-1 internalization mediated by syndecan-1. *Journal of Cellular Biochemistry*, **2006**, 99, 936-51	4.7	25
96	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, 2041-52	6.6	98
95	The switch on the RAPper's necklace. *Molecular Cell*, **2006**, 23, 451-5	17.6	17
94	Defective splicing of Megf7/Lrp4, a regulator of distal limb development, in autosomal recessive mulefoot disease. *Genomics*, **2006**, 88, 600-9	4.3	47
93	Reelin, lipoprotein receptors and synaptic plasticity. *Nature Reviews Neuroscience*, **2006**, 7, 850-9	13.5	405
92	Essential roles for the FE65 amyloid precursor protein-interacting proteins in brain development. *EMBO Journal*, **2006**, 25, 420-31	13	113
91	Endocytic receptor LRP together with tPA and PAI-1 coordinates Mac-1-dependent macrophage migration. *EMBO Journal*, **2006**, 25, 1860-70	13	144
90	Loss of Apaf-1 leads to partial rescue of the HAND2-null phenotype. *Developmental Biology*, **2005**, 278, 155-62	3.1	15
89	The apoE receptor apoER2 is involved in the maintenance of efficient synaptic plasticity. *Neurobiology of Aging*, **2005**, 26, 195-206	5.6	13
88	Modulation of synaptic plasticity and memory by Reelin involves differential splicing of the lipoprotein receptor Apoer2. *Neuron*, **2005**, 47, 567-79	13.9	359
87	Suppression of aging in mice by the hormone Klotho. *Science*, **2005**, 309, 1829-33	33.3	1344
86	Abnormal development of the apical ectodermal ridge and polysyndactyly in Megf7-deficient mice. *Human Molecular Genetics*, **2005**, 14, 3523-38	5.6	110
85	Clinical and biological features associated with epidermal growth factor receptor gene mutations in lung cancers. *Journal of the National Cancer Institute*, **2005**, 97, 339-46	9.7	1919

84	Phosphoinositide binding by the disabled-1 PTB domain is necessary for membrane localization and Reelin signal transduction. *Journal of Biological Chemistry*, **2005**, 280, 9671-7	5.4	30
83	Low density lipoprotein receptor-related protein 1 (LRP1) controls endocytosis and c-CBL-mediated ubiquitination of the platelet-derived growth factor receptor beta (PDGFR beta). *Journal of Biological Chemistry*, **2005**, 280, 18504-10	5.4	72
82	Reelin modulates NMDA receptor activity in cortical neurons. *Journal of Neuroscience*, **2005**, 25, 8209-16	6.6	216
81	The modular adaptor protein autosomal recessive hypercholesterolemia (ARH) promotes low density lipoprotein receptor clustering into clathrin-coated pits. *Journal of Biological Chemistry*, **2005**, 280, 40996-1004	5.4	69
80	Cancer. A bullS eye for targeted lung cancer therapy. *Science*, **2004**, 304, 1458-61	33.3	74
79	Endocytosis of hepatic lipase and lipoprotein lipase into rat liver hepatocytes in vivo is mediated by the low density lipoprotein receptor-related protein. *Journal of Biological Chemistry*, **2004**, 279, 9030-6	5.4	19
78	Normal development and fertility of knockout mice lacking the tumor suppressor gene LRP1b suggest functional compensation by LRP1. *Molecular and Cellular Biology*, **2004**, 24, 3782-93	4.8	53
77	Reelin and cyclin-dependent kinase 5-dependent signals cooperate in regulating neuronal migration and synaptic transmission. *Journal of Neuroscience*, **2004**, 24, 1897-906	6.6	100
76	Apolipoprotein E receptors are required for reelin-induced proteasomal degradation of the neuronal adaptor protein Disabled-1. *Journal of Biological Chemistry*, **2004**, 279, 33471-9	5.4	79
75	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, 514-21	6.6	155
74	Functions of lipoprotein receptors in neurons. *Journal of Lipid Research*, **2004**, 45, 403-9	6.3	113
73	Receptor clustering is involved in Reelin signaling. *Molecular and Cellular Biology*, **2004**, 24, 1378-86	4.8	157
72	Neuronal LRP1 functionally associates with postsynaptic proteins and is required for normal motor function in mice. *Molecular and Cellular Biology*, **2004**, 24, 8872-83	4.8	159
71	Lipoprotein receptors in the vascular wall. *Current Opinion in Lipidology*, **2004**, 15, 175-81	4.4	26
70	Hepatic low-density lipoprotein receptor-related protein deficiency in mice increases atherosclerosis independent of plasma cholesterol. *Blood*, **2004**, 103, 3777-82	2.2	35
69	Normal sorting but defective endocytosis of the low density lipoprotein receptor in mice with autosomal recessive hypercholesterolemia. *Journal of Biological Chemistry*, **2003**, 278, 29024-30	5.4	73
68	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, 38772-9	5.4	160
67	Conditional expression of mutant M-line titins results in cardiomyopathy with altered sarcomere structure. *Journal of Biological Chemistry*, **2003**, 278, 6059-65	5.4	104

66	Insulin-secreting beta-cell dysfunction induced by human lipoproteins. *Journal of Biological Chemistry*, **2003**, 278, 18368-75	5.4	144
65	Differential glycosylation regulates processing of lipoprotein receptors by gamma-secretase. *Journal of Biological Chemistry*, **2003**, 278, 37386-92	5.4	108
64	Elevated plasma factor VIII in a mouse model of low-density lipoprotein receptor-related protein deficiency. *Blood*, **2003**, 101, 3933-9	2.2	103
63	Genetic modulation of tau phosphorylation in the mouse. *Journal of Neuroscience*, **2003**, 23, 187-92	6.6	70
62	Reelin activates SRC family tyrosine kinases in neurons. *Current Biology*, **2003**, 13, 18-26	6.3	298
61	Origins of peptide selectivity and phosphoinositide binding revealed by structures of disabled-1 PTB domain complexes. *Structure*, **2003**, 11, 569-79	5.2	104
60	Malformation of the radial glial scaffold in the dentate gyrus of reeler mice, scrambler mice, and ApoER2/VLDLR-deficient mice. *Journal of Comparative Neurology*, **2003**, 460, 56-65	3.4	86
59	LDL receptor-related proteins in neurodevelopment. *Traffic*, **2003**, 4, 291-301	5.7	51
58	Interaction of reelin signaling and Lis1 in brain development. *Nature Genetics*, **2003**, 35, 270-6	36.3	182
57	Coaxing the LDL receptor family into the fold. *Cell*, **2003**, 112, 289-92	56.2	63
56	Mouse models as tools for dissecting disorders of lipoprotein metabolism. *Seminars in Cell and Developmental Biology*, **2003**, 14, 25-35	7.5	5
55	Essential role of the apolipoprotein E receptor-2 in sperm development. *Journal of Biological Chemistry*, **2003**, 278, 23989-95	5.4	85
54	LRP: role in vascular wall integrity and protection from atherosclerosis. *Science*, **2003**, 300, 329-32	33.3	466
53	LRP: a bright beacon at the blood-brain barrier. *Journal of Clinical Investigation*, **2003**, 112, 1483-5	15.9	42
52	Abnormal positioning of granule cells alters afferent fiber distribution in the mouse fascia dentata: morphologic evidence from reeler, apolipoprotein E receptor 2-, and very low density lipoprotein receptor knockout mice. *Journal of Comparative Neurology*, **2002**, 445, 278-92	3.4	28
51	Reelin-mediated signaling locally regulates protein kinase B/Akt and glycogen synthase kinase 3beta. *Journal of Biological Chemistry*, **2002**, 277, 49958-64	5.4	233
50	Proteolytic processing of low density lipoprotein receptor-related protein mediates regulated release of its intracellular domain. *Journal of Biological Chemistry*, **2002**, 277, 18736-43	5.4	222
49	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, 7142-7	11.5	255

48	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, 15507-13	5.4	166
47	Lipoprotein receptors in the nervous system. *Annual Review of Biochemistry*, **2002**, 71, 405-34	29.1	346
46	Reelin and ApoE receptors cooperate to enhance hippocampal synaptic plasticity and learning. *Journal of Biological Chemistry*, **2002**, 277, 39944-52	5.4	464
45	The LDL receptor gene family: signaling functions during development. *Current Opinion in Neurobiology*, **2001**, 11, 74-81	7.6	65
44	LRP: a multifunctional scavenger and signaling receptor. *Journal of Clinical Investigation*, **2001**, 108, 779-784	13.9	759
43	The LDL receptor gene family: (un)expected signal transducers in the brain. *Neuron*, **2001**, 29, 571-81	13.9	205
42	Cellular signalling by lipoprotein receptors. *Current Opinion in Lipidology*, **2000**, 11, 161-6	4.4	53
41	Apolipoprotein E receptors: linking brain development and Alzheimer's disease. *Nature Reviews Neuroscience*, **2000**, 1, 51-8	13.5	172
40	Plasmodium sporozoites invade cells with targeted deletions in the LDL receptor related protein. *Molecular and Biochemical Parasitology*, **2000**, 106, 293-8	1.9	8
39	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, 25616-24	5.4	368
38	The reelin receptor ApoER2 recruits JNK-interacting proteins-1 and -2. *Journal of Biological Chemistry*, **2000**, 275, 25625-32	5.4	186
37	Adult Apaf-1-deficient mice exhibit male infertility. *Developmental Biology*, **2000**, 218, 248-58	3.1	170
36	The LDL receptor gene family, apolipoprotein B and cholesterol in embryonic development. *Journal of Nutrition*, **1999**, 129, 473S-475S	4.1	21
35	Gene targets and approaches for raising HDL. *Circulation*, **1999**, 99, 12-4	16.7	18
34	An extrahepatic receptor-associated protein-sensitive mechanism is involved in the metabolism of triglyceride-rich lipoproteins. *Journal of Biological Chemistry*, **1999**, 274, 35219-26	5.4	33
33	Lipoprotein receptors: new roles for ancient proteins. *Nature Cell Biology*, **1999**, 1, E157-62	23.4	178
32	Direct binding of Reelin to VLDL receptor and ApoE receptor 2 induces tyrosine phosphorylation of disabled-1 and modulates tau phosphorylation. *Neuron*, **1999**, 24, 481-9	13.9	771
31	An endocytic pathway essential for renal uptake and activation of the steroid 25-(OH) vitamin D3. *Cell*, **1999**, 96, 507-15	56.2	813

30	Reeler/Disabled-like disruption of neuronal migration in knockout mice lacking the VLDL receptor and ApoE receptor 2. *Cell*, **1999**, 97, 689-701	56.2	1093
29	39-kDa receptor-associated protein (RAP) facilitates secretion and ligand binding of extracellular region of very-low-density-lipoprotein receptor: implications for a distinct pathway from low-density-lipoprotein receptor. *Biochemical Journal*, **1999**, 341, 377-383	3.8	13
28	Cholesterol metabolism and embryogenesis. *Trends in Genetics*, **1998**, 14, 115-20	8.5	109
27	Interaction of cytosolic adaptor proteins with neuronal apolipoprotein E receptors and the amyloid precursor protein. *Journal of Biological Chemistry*, **1998**, 273, 33556-60	5.4	446
26	C1 inhibitor-C1s complexes are internalized and degraded by the low density lipoprotein receptor-related protein. *Journal of Biological Chemistry*, **1997**, 272, 31043-50	5.4	29
25	Avian and murine LR8B and human apolipoprotein E receptor 2: differentially spliced products from corresponding genes. *Genomics*, **1997**, 42, 185-91	4.3	46
24	Cholesterol, hedgehog and embryogenesis. *Nature Genetics*, **1997**, 15, 123-4	36.3	25
23	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, 25873-9	5.4	33
22	The low-density-lipoprotein receptor-related protein (LRP) is processed by furin in vivo and in vitro. *Biochemical Journal*, **1996**, 313 (Pt 1), 71-6	3.8	108
21	Sustained somatic gene inactivation by viral transfer of Cre recombinase. *Nature Biotechnology*, **1996**, 14, 1562-5	44.5	121
20	Disruption of cholesterol 7alpha-hydroxylase gene in mice. I. Postnatal lethality reversed by bile acid and vitamin supplementation. *Journal of Biological Chemistry*, **1996**, 271, 18017-23	5.4	183
19	Disruption of cholesterol 7alpha-hydroxylase gene in mice. II. Bile acid deficiency is overcome by induction of oxysterol 7alpha-hydroxylase. *Journal of Biological Chemistry*, **1996**, 271, 18024-31	5.4	202
18	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, 21160-6	5.4	57
17	Essential functions of synapsins I and II in synaptic vesicle regulation. *Nature*, **1995**, 375, 488-93	50.4	635
16	Differential recognition of alpha 1-antitrypsin-elastase and alpha 1-antichymotrypsin-cathepsin G complexes by the low density lipoprotein receptor-related protein. *Journal of Biological Chemistry*, **1995**, 270, 2841-5	5.4	48
15	Two receptor systems are involved in the plasma clearance of tissue factor pathway inhibitor in vivo. *Journal of Biological Chemistry*, **1995**, 270, 24800-4	5.4	55
14	Gene transfer and disruption strategies to elucidate hepatic lipoprotein receptor functions. *Atherosclerosis*, **1995**, 118, S37-S41	3.1	1
13	Lipoprotein and receptor interactions in vivo. *Current Opinion in Lipidology*, **1995**, 6, 97-103	4.4	75

12	Functions of the LDL receptor gene family. *Annals of the New York Academy of Sciences*, **1994**, 737, 14-9	6.5	30
11	The LDL-receptor-related protein ??? portrait of a multifunctional receptor. *Current Opinion in Lipidology*, **1993**, 4, 107-113	4.4	65
10	LDL receptor-related protein internalizes and degrades uPA-PAI-1 complexes and is essential for embryo implantation. *Cell*, **1992**, 71, 411-21	56.2	505
9	Putative apolipoprotein receptor gene (LRP, A2MR) is not rearranged in either myxoid liposarcoma or lipomas with translocations in 12q13-14. *Cancer Genetics and Cytogenetics*, **1992**, 60, 125-30		4
8	The low-density lipoprotein receptor-related protein: double agent or decoy?. *Current Opinion in Lipidology*, **1991**, 2, 65-72	4.4	140
7	Structure and biosynthesis of the signal-sequence receptor. *FEBS Journal*, **1990**, 188, 439-45		58
6	The 68 kDa protein of signal recognition particle contains a glycine-rich region also found in certain RNA-binding proteins. *FEBS Letters*, **1990**, 276, 103-7	3.8	29
5	Homology of 54K protein of signal-recognition particle, docking protein and two E. coli proteins with putative GTP-binding domains. *Nature*, **1989**, 340, 478-82	50.4	356
4	The LDL-receptor-related protein, LRP, is an apolipoprotein E-binding protein. *Nature*, **1989**, 341, 162-4	50.4	601
3	The gene for the human putative apoE receptor is on chromosome 12 in the segment q13-14. *Genomics*, **1989**, 5, 65-9	4.3	26
2	The primary structure of the 70 kDa subunit of bovine soluble guanylate cyclase. *FEBS Letters*, **1988**, 239, 29-34	3.8	121
1	Efficient construction of cDNA libraries in plasmid expression vectors using an adaptor strategy. *Nucleic Acids Research*, **1986**, 14, 8615-24	20.1	97