

Joachim Herz

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6466156/joachim-herz-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Clinical and biological features associated with epidermal growth factor receptor gene mutations in lung cancers. <i>Journal of the National Cancer Institute</i> , 2005 , 97, 339-46	9.7	1919
226	Suppression of aging in mice by the hormone Klotho. <i>Science</i> , 2005 , 309, 1829-33	33.3	1344
225	Reeler/Disabled-like disruption of neuronal migration in knockout mice lacking the VLDL receptor and ApoE receptor 2. <i>Cell</i> , 1999 , 97, 689-701	56.2	1093
224	An endocytic pathway essential for renal uptake and activation of the steroid 25-(OH) vitamin D3. <i>Cell</i> , 1999 , 96, 507-15	56.2	813
223	Direct binding of Reelin to VLDL receptor and ApoE receptor 2 induces tyrosine phosphorylation of disabled-1 and modulates tau phosphorylation. <i>Neuron</i> , 1999 , 24, 481-9	13.9	771
222	LRP: a multifunctional scavenger and signaling receptor. <i>Journal of Clinical Investigation</i> , 2001 , 108, 779-784	13.9	759
221	Essential functions of synapsins I and II in synaptic vesicle regulation. <i>Nature</i> , 1995 , 375, 488-93	50.4	635
220	The LDL-receptor-related protein, LRP, is an apolipoprotein E-binding protein. <i>Nature</i> , 1989 , 341, 162-4	50.4	601
219	LDL receptor-related protein internalizes and degrades uPA-PAI-1 complexes and is essential for embryo implantation. <i>Cell</i> , 1992 , 71, 411-21	56.2	505
218	Apolipoprotein E and apolipoprotein E receptors: normal biology and roles in Alzheimer disease. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012 , 2, a006312	5.4	497
217	LRP: role in vascular wall integrity and protection from atherosclerosis. <i>Science</i> , 2003 , 300, 329-32	33.3	466
216	Reelin and ApoE receptors cooperate to enhance hippocampal synaptic plasticity and learning. <i>Journal of Biological Chemistry</i> , 2002 , 277, 39944-52	5.4	464
215	Interaction of cytosolic adaptor proteins with neuronal apolipoprotein E receptors and the amyloid precursor protein. <i>Journal of Biological Chemistry</i> , 1998 , 273, 33556-60	5.4	446
214	Reelin, lipoprotein receptors and synaptic plasticity. <i>Nature Reviews Neuroscience</i> , 2006 , 7, 850-9	13.5	405
213	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. <i>Journal of Biological Chemistry</i> , 2000 , 275, 25616-24	5.4	368
212	Modulation of synaptic plasticity and memory by Reelin involves differential splicing of the lipoprotein receptor Apoer2. <i>Neuron</i> , 2005 , 47, 567-79	13.9	359
211	Homology of 54K protein of signal-recognition particle, docking protein and two E. coli proteins with putative GTP-binding domains. <i>Nature</i> , 1989 , 340, 478-82	50.4	356

210	Lipoprotein receptors in the nervous system. <i>Annual Review of Biochemistry</i> , 2002 , 71, 405-34	29.1	346
209	Identification of neuronal RNA targets of TDP-43-containing ribonucleoprotein complexes. <i>Journal of Biological Chemistry</i> , 2011 , 286, 1204-15	5.4	306
208	Reelin activates SRC family tyrosine kinases in neurons. <i>Current Biology</i> , 2003 , 13, 18-26	6.3	298
207	Amyloid precursor protein regulates brain apolipoprotein E and cholesterol metabolism through lipoprotein receptor LRP1. <i>Neuron</i> , 2007 , 56, 66-78	13.9	285
206	TDP-43 is a developmentally regulated protein essential for early embryonic development. <i>Journal of Biological Chemistry</i> , 2010 , 285, 6826-34	5.4	262
205	Smooth muscle-selective deletion of guanylyl cyclase-A prevents the acute but not chronic effects of ANP on blood pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 7142-7	11.5	255
204	ApoE4 reduces glutamate receptor function and synaptic plasticity by selectively impairing ApoE receptor recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12011-6	11.5	233
203	Reelin-mediated signaling locally regulates protein kinase B/Akt and glycogen synthase kinase 3beta. <i>Journal of Biological Chemistry</i> , 2002 , 277, 49958-64	5.4	233
202	TDP-43 is directed to stress granules by sorbitol, a novel physiological osmotic and oxidative stressor. <i>Molecular and Cellular Biology</i> , 2011 , 31, 1098-108	4.8	232
201	Proteolytic processing of low density lipoprotein receptor-related protein mediates regulated release of its intracellular domain. <i>Journal of Biological Chemistry</i> , 2002 , 277, 18736-43	5.4	222
200	Reelin modulates NMDA receptor activity in cortical neurons. <i>Journal of Neuroscience</i> , 2005 , 25, 8209-166.6		216
199	The LDL receptor gene family: (un)expected signal transducers in the brain. <i>Neuron</i> , 2001 , 29, 571-81	13.9	205
198	Apolipoprotein E induces antiinflammatory phenotype in macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 1160-8	9.4	202
197	Disruption of cholesterol 7alpha-hydroxylase gene in mice. II. Bile acid deficiency is overcome by induction of oxysterol 7alpha-hydroxylase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 18024-31	5.4	202
196	The reelin receptor ApoER2 recruits JNK-interacting proteins-1 and -2. <i>Journal of Biological Chemistry</i> , 2000 , 275, 25625-32	5.4	186
195	Disruption of cholesterol 7alpha-hydroxylase gene in mice. I. Postnatal lethality reversed by bile acid and vitamin supplementation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 18017-23	5.4	183
194	Interaction of reelin signaling and Lis1 in brain development. <i>Nature Genetics</i> , 2003 , 35, 270-6	36.3	182
193	Lipoprotein receptors: new roles for ancient proteins. <i>Nature Cell Biology</i> , 1999 , 1, E157-62	23.4	178

192	Apolipoprotein E receptors: linking brain development and Alzheimer's disease. <i>Nature Reviews Neuroscience</i> , 2000 , 1, 51-8	13.5	172
191	Adult Apaf-1-deficient mice exhibit male infertility. <i>Developmental Biology</i> , 2000 , 218, 248-58	3.1	170
190	Platelet-derived growth factor mediates tyrosine phosphorylation of the cytoplasmic domain of the low Density lipoprotein receptor-related protein in caveolae. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15507-13	5.4	166
189	A Consensus Definitive Classification of Scavenger Receptors and Their Roles in Health and Disease. <i>Journal of Immunology</i> , 2017 , 198, 3775-3789	5.3	165
188	Phosphatidylinositol 3-kinase interacts with the adaptor protein Dab1 in response to Reelin signaling and is required for normal cortical lamination. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38772-84	5.4	160
187	Neuronal LRP1 functionally associates with postsynaptic proteins and is required for normal motor function in mice. <i>Molecular and Cellular Biology</i> , 2004 , 24, 8872-83	4.8	159
186	Receptor clustering is involved in Reelin signaling. <i>Molecular and Cellular Biology</i> , 2004 , 24, 1378-86	4.8	157
185	Lrp4, a novel receptor for Dickkopf 1 and sclerostin, is expressed by osteoblasts and regulates bone growth and turnover in vivo. <i>PLoS ONE</i> , 2009 , 4, e7930	3.7	156
184	The central fragment of Reelin, generated by proteolytic processing in vivo, is critical to its function during cortical plate development. <i>Journal of Neuroscience</i> , 2004 , 24, 514-21	6.6	155
183	TDP-43 aggregation in neurodegeneration: are stress granules the key?. <i>Brain Research</i> , 2012 , 1462, 16-25	5.7	151
182	Progranulin: a proteolytically processed protein at the crossroads of inflammation and neurodegeneration. <i>Journal of Biological Chemistry</i> , 2012 , 287, 32298-306	5.4	149
181	Lrp4 modulates extracellular integration of cell signaling pathways in development. <i>PLoS ONE</i> , 2008 , 3, e4092	3.7	147
180	Endocytic receptor LRP together with tPA and PAI-1 coordinates Mac-1-dependent macrophage migration. <i>EMBO Journal</i> , 2006 , 25, 1860-70	13	144
179	Insulin-secreting beta-cell dysfunction induced by human lipoproteins. <i>Journal of Biological Chemistry</i> , 2003 , 278, 18368-75	5.4	144
178	The low-density lipoprotein receptor-related protein: double agent or decoy?. <i>Current Opinion in Lipidology</i> , 1991 , 2, 65-72	4.4	140
177	Antiphospholipid antibodies promote leukocyte-endothelial cell adhesion and thrombosis in mice by antagonizing eNOS via β GPI and apoER2. <i>Journal of Clinical Investigation</i> , 2011 , 121, 120-31	15.9	131
176	LRP4 mutations alter Wnt/beta-catenin signaling and cause limb and kidney malformations in Cenani-Lenz syndrome. <i>American Journal of Human Genetics</i> , 2010 , 86, 696-706	11	127
175	Standardizing scavenger receptor nomenclature. <i>Journal of Immunology</i> , 2014 , 192, 1997-2006	5.3	125

174	Suberoylanilide hydroxamic acid (vorinostat) up-regulates progranulin transcription: rational therapeutic approach to frontotemporal dementia. <i>Journal of Biological Chemistry</i> , 2011 , 286, 16101-8	5.4	121
173	Sustained somatic gene inactivation by viral transfer of Cre recombinase. <i>Nature Biotechnology</i> , 1996 , 14, 1562-5	44.5	121
172	The primary structure of the 70 kDa subunit of bovine soluble guanylate cyclase. <i>FEBS Letters</i> , 1988 , 239, 29-34	3.8	121
171	Reelin controls neuronal positioning by promoting cell-matrix adhesion via inside-out activation of integrin $\beta 1$. <i>Neuron</i> , 2012 , 76, 353-69	13.9	120
170	Adipocyte LDL receptor-related protein-1 expression modulates postprandial lipid transport and glucose homeostasis in mice. <i>Journal of Clinical Investigation</i> , 2007 , 117, 3271-82	15.9	118
169	Reelin signaling antagonizes beta-amyloid at the synapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15938-43	11.5	117
168	Essential roles for the FE65 amyloid precursor protein-interacting proteins in brain development. <i>EMBO Journal</i> , 2006 , 25, 420-31	13	113
167	Functions of lipoprotein receptors in neurons. <i>Journal of Lipid Research</i> , 2004 , 45, 403-9	6.3	113
166	Abnormal development of the apical ectodermal ridge and polysyndactyly in Megf7-deficient mice. <i>Human Molecular Genetics</i> , 2005 , 14, 3523-38	5.6	110
165	Cholesterol metabolism and embryogenesis. <i>Trends in Genetics</i> , 1998 , 14, 115-20	8.5	109
164	Differential glycosylation regulates processing of lipoprotein receptors by gamma-secretase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 37386-92	5.4	108
163	The low-density-lipoprotein receptor-related protein (LRP) is processed by furin in vivo and in vitro. <i>Biochemical Journal</i> , 1996 , 313 (Pt 1), 71-6	3.8	108
162	Conditional expression of mutant M-line titins results in cardiomyopathy with altered sarcomere structure. <i>Journal of Biological Chemistry</i> , 2003 , 278, 6059-65	5.4	104
161	Origins of peptide selectivity and phosphoinositide binding revealed by structures of disabled-1 PTB domain complexes. <i>Structure</i> , 2003 , 11, 569-79	5.2	104
160	Elevated plasma factor VIII in a mouse model of low-density lipoprotein receptor-related protein deficiency. <i>Blood</i> , 2003 , 101, 3933-9	2.2	103
159	Emerging topics in Reelin function. <i>European Journal of Neuroscience</i> , 2010 , 31, 1511-8	3.5	102
158	Reelin and cyclin-dependent kinase 5-dependent signals cooperate in regulating neuronal migration and synaptic transmission. <i>Journal of Neuroscience</i> , 2004 , 24, 1897-906	6.6	100
157	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. <i>Journal of Neuroscience</i> , 2006 , 26, 2041-52	6.6	98

156	Proteomic analysis of GLUT4 storage vesicles reveals LRP1 to be an important vesicle component and target of insulin signaling. <i>Journal of Biological Chemistry</i> , 2010 , 285, 104-14	5.4	97
155	Efficient construction of cDNA libraries in plasmid expression vectors using an adaptor strategy. <i>Nucleic Acids Research</i> , 1986 , 14, 8615-24	20.1	97
154	Gamma-secretase limits the inflammatory response through the processing of LRP1. <i>Science Signaling</i> , 2008 , 1, ra15	8.8	95
153	Blood-brain barrier-associated pericytes internalize and clear aggregated amyloid- β 2 by LRP1-dependent apolipoprotein E isoform-specific mechanism. <i>Molecular Neurodegeneration</i> , 2018 , 13, 57	19	94
152	Reelin mobilizes a VAMP7-dependent synaptic vesicle pool and selectively augments spontaneous neurotransmission. <i>Neuron</i> , 2013 , 80, 934-46	13.9	93
151	LRP1 functions as an atheroprotective integrator of TGFbeta and PDGF signals in the vascular wall: implications for Marfan syndrome. <i>PLoS ONE</i> , 2007 , 2, e448	3.7	91
150	More than cholesterol transporters: lipoprotein receptors in CNS function and neurodegeneration. <i>Neuron</i> , 2014 , 83, 771-87	13.9	90
149	LRP1 controls intracellular cholesterol storage and fatty acid synthesis through modulation of Wnt signaling. <i>Journal of Biological Chemistry</i> , 2009 , 284, 381-388	5.4	89
148	Malformation of the radial glial scaffold in the dentate gyrus of reeler mice, scrambler mice, and ApoER2/VLDLR-deficient mice. <i>Journal of Comparative Neurology</i> , 2003 , 460, 56-65	3.4	86
147	Essential role of the apolipoprotein E receptor-2 in sperm development. <i>Journal of Biological Chemistry</i> , 2003 , 278, 23989-95	5.4	85
146	Activity-dependent FUS dysregulation disrupts synaptic homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4769-78	11.5	82
145	Lipoprotein receptors--an evolutionarily ancient multifunctional receptor family. <i>Biological Chemistry</i> , 2010 , 391, 1341-63	4.5	81
144	Apolipoprotein E receptors are required for reelin-induced proteasomal degradation of the neuronal adaptor protein Disabled-1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 33471-9	5.4	79
143	Lipoprotein and receptor interactions in vivo. <i>Current Opinion in Lipidology</i> , 1995 , 6, 97-103	4.4	75
142	Signaling through LRP1: Protection from atherosclerosis and beyond. <i>Biochemical Pharmacology</i> , 2011 , 81, 1-5	6	74
141	Cancer. A bull's eye for targeted lung cancer therapy. <i>Science</i> , 2004 , 304, 1458-61	33.3	74
140	Genome-wide RNAi screen reveals ALK1 mediates LDL uptake and transcytosis in endothelial cells. <i>Nature Communications</i> , 2016 , 7, 13516	17.4	73
139	Normal sorting but defective endocytosis of the low density lipoprotein receptor in mice with autosomal recessive hypercholesterolemia. <i>Journal of Biological Chemistry</i> , 2003 , 278, 29024-30	5.4	73

138	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). <i>Journal of Biological Chemistry</i> , 2005 , 280, 18504-10	5.4	72
137	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. <i>Journal of Neuroscience</i> , 2013 , 33, 9202-13	6.6	71
136	Genetic modulation of tau phosphorylation in the mouse. <i>Journal of Neuroscience</i> , 2003 , 23, 187-92	6.6	70
135	The modular adaptor protein autosomal recessive hypercholesterolemia (ARH) promotes low density lipoprotein receptor clustering into clathrin-coated pits. <i>Journal of Biological Chemistry</i> , 2005 , 280, 40996-1004	5.4	69
134	Origin, maturation, and astroglial transformation of secondary radial glial cells in the developing dentate gyrus. <i>Glia</i> , 2010 , 58, 1553-69	9	68
133	Early retinal neurodegeneration and impaired Ran-mediated nuclear import of TDP-43 in progranulin-deficient FTLD. <i>Journal of Experimental Medicine</i> , 2014 , 211, 1937-45	16.6	67
132	ApoE, ApoE Receptors, and the Synapse in Alzheimer's Disease. <i>Trends in Endocrinology and Metabolism</i> , 2017 , 28, 273-284	8.8	65
131	Lipidomic and Transcriptomic Basis of Lysosomal Dysfunction in Progranulin Deficiency. <i>Cell Reports</i> , 2017 , 20, 2565-2574	10.6	65
130	The LDL receptor gene family: signaling functions during development. <i>Current Opinion in Neurobiology</i> , 2001 , 11, 74-81	7.6	65
129	The LDL-receptor-related protein ??? portrait of a multifunctional receptor. <i>Current Opinion in Lipidology</i> , 1993 , 4, 107-113	4.4	65
128	LRP1 is a receptor for Clostridium perfringens TpeL toxin indicating a two-receptor model of clostridial glycosylating toxins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6431-6	11.5	64
127	The nuclear hormone receptor PPAR α counteracts vascular calcification by inhibiting Wnt5a signalling in vascular smooth muscle cells. <i>Nature Communications</i> , 2012 , 3, 1077	17.4	63
126	ApoE receptor 2 controls neuronal survival in the adult brain. <i>Current Biology</i> , 2006 , 16, 2446-52	6.3	63
125	Coaxing the LDL receptor family into the fold. <i>Cell</i> , 2003 , 112, 289-92	56.2	63
124	An AXL/LRP-1/RANBP9 complex mediates DC efferocytosis and antigen cross-presentation in vivo. <i>Journal of Clinical Investigation</i> , 2014 , 124, 1296-308	15.9	63
123	Reelin protects against amyloid β toxicity in vivo. <i>Science Signaling</i> , 2015 , 8, ra67	8.8	62
122	The pro-neurotrophin receptor sortilin is a major neuronal apolipoprotein E receptor for catabolism of amyloid- β peptide in the brain. <i>Journal of Neuroscience</i> , 2013 , 33, 358-70	6.6	62
121	Trypanosoma cruzi utilizes the host low density lipoprotein receptor in invasion. <i>PLoS Neglected Tropical Diseases</i> , 2011 , 5, e953	4.8	61

120	Lipoprotein receptor LRP1 regulates leptin signaling and energy homeostasis in the adult central nervous system. <i>PLoS Biology</i> , 2011 , 9, e1000575	9.7	59
119	Reelin signals through apolipoprotein E receptor 2 and Cdc42 to increase growth cone motility and filopodia formation. <i>Journal of Neuroscience</i> , 2010 , 30, 14759-72	6.6	58
118	Structure and biosynthesis of the signal-sequence receptor. <i>FEBS Journal</i> , 1990 , 188, 439-45		58
117	The major subunit of the asialoglycoprotein receptor is expressed on the hepatocellular surface in mice lacking the minor receptor subunit. <i>Journal of Biological Chemistry</i> , 1996 , 271, 21160-6	5.4	57
116	Apolipoprotein E receptors in the nervous system. <i>Current Opinion in Lipidology</i> , 2009 , 20, 190-6	4.4	56
115	TDP-43 in central nervous system development and function: clues to TDP-43-associated neurodegeneration. <i>Biological Chemistry</i> , 2012 , 393, 589-94	4.5	55
114	Expanding functions of lipoprotein receptors. <i>Journal of Lipid Research</i> , 2009 , 50 Suppl, S287-92	6.3	55
113	Mutations in VLDLR as a cause for autosomal recessive cerebellar ataxia with mental retardation (dysequilibrium syndrome). <i>Journal of Child Neurology</i> , 2009 , 24, 1310-5	2.5	55
112	Two receptor systems are involved in the plasma clearance of tissue factor pathway inhibitor in vivo. <i>Journal of Biological Chemistry</i> , 1995 , 270, 24800-4	5.4	55
111	News on the molecular regulation and function of hepatic low-density lipoprotein receptor and LDLR-related protein 1. <i>Current Opinion in Lipidology</i> , 2017 , 28, 241-247	4.4	53
110	Constitutive and ligand-induced EGFR signalling triggers distinct and mutually exclusive downstream signalling networks. <i>Nature Communications</i> , 2014 , 5, 5811	17.4	53
109	Normal development and fertility of knockout mice lacking the tumor suppressor gene LRP1b suggest functional compensation by LRP1. <i>Molecular and Cellular Biology</i> , 2004 , 24, 3782-93	4.8	53
108	Cellular signalling by lipoprotein receptors. <i>Current Opinion in Lipidology</i> , 2000 , 11, 161-6	4.4	53
107	Reelin: Neurodevelopmental Architect and Homeostatic Regulator of Excitatory Synapses. <i>Journal of Biological Chemistry</i> , 2017 , 292, 1330-1338	5.4	52
106	The Pafah1b complex interacts with the reelin receptor VLDLR. <i>PLoS ONE</i> , 2007 , 2, e252	3.7	52
105	LRP1 regulates architecture of the vascular wall by controlling PDGFRbeta-dependent phosphatidylinositol 3-kinase activation. <i>PLoS ONE</i> , 2009 , 4, e6922	3.7	52
104	Reelin induces EphB activation. <i>Cell Research</i> , 2013 , 23, 473-90	24.7	51
103	LDL receptor-related proteins in neurodevelopment. <i>Traffic</i> , 2003 , 4, 291-301	5.7	51

102	Genetic Restoration of Plasma ApoE Improves Cognition and Partially Restores Synaptic Defects in ApoE-Deficient Mice. <i>Journal of Neuroscience</i> , 2016 , 36, 10141-50	6.6	51
101	Prosaposin is a regulator of progranulin levels and oligomerization. <i>Nature Communications</i> , 2016 , 7, 11992	17.4	49
100	LRP1 integrates murine macrophage cholesterol homeostasis and inflammatory responses in atherosclerosis. <i>ELife</i> , 2017 , 6,	8.9	48
99	Differential recognition of alpha 1-antitrypsin-elastase and alpha 1-antichymotrypsin-cathepsin G complexes by the low density lipoprotein receptor-related protein. <i>Journal of Biological Chemistry</i> , 1995 , 270, 2841-5	5.4	48
98	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. <i>Journal of Biological Chemistry</i> , 2013 , 288, 21909-23	5.4	47
97	Defective splicing of Megf7/Lrp4, a regulator of distal limb development, in autosomal recessive mulefoot disease. <i>Genomics</i> , 2006 , 88, 600-9	4.3	47
96	APP interacts with LRP4 and agrin to coordinate the development of the neuromuscular junction in mice. <i>ELife</i> , 2013 , 2, e00220	8.9	47
95	Avian and murine LR8B and human apolipoprotein E receptor 2: differentially spliced products from corresponding genes. <i>Genomics</i> , 1997 , 42, 185-91	4.3	46
94	Lrp4 regulates initiation of ureteric budding and is crucial for kidney formation--a mouse model for Cenani-Lenz syndrome. <i>PLoS ONE</i> , 2010 , 5, e10418	3.7	45
93	Disruption of LDL but not VLDL clearance in autosomal recessive hypercholesterolemia. <i>Journal of Clinical Investigation</i> , 2007 , 117, 165-74	15.9	45
92	The Reelin receptors Apoer2 and Vldlr coordinate the patterning of Purkinje cell topography in the developing mouse cerebellum. <i>PLoS ONE</i> , 2008 , 3, e1653	3.7	42
91	LRP: a bright beacon at the blood-brain barrier. <i>Journal of Clinical Investigation</i> , 2003 , 112, 1483-5	15.9	42
90	ApoE Receptor 2 Mediation of Trophoblast Dysfunction and Pregnancy Complications Induced by Antiphospholipid Antibodies in Mice. <i>Arthritis and Rheumatology</i> , 2016 , 68, 730-739	9.5	39
89	The ApoE receptors Vldlr and Apoer2 in central nervous system function and disease. <i>Journal of Lipid Research</i> , 2017 , 58, 1036-1043	6.3	38
88	Genetic variants of ApoE and ApoER2 differentially modulate endothelial function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13493-8	11.5	37
87	Lymphoangiocrine signals promote cardiac growth and repair. <i>Nature</i> , 2020 , 588, 705-711	50.4	36
86	A role for suppressed incisor cuspal morphogenesis in the evolution of mammalian heterodont dentition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 92-7	11.5	35
85	Hepatic low-density lipoprotein receptor-related protein deficiency in mice increases atherosclerosis independent of plasma cholesterol. <i>Blood</i> , 2004 , 103, 3777-82	2.2	35

84	Agrin mediates chondrocyte homeostasis and requires both LRP4 and Ectodysglycan to enhance cartilage formation in vitro and in vivo. <i>Annals of the Rheumatic Diseases</i> , 2016 , 75, 1228-35	2.4	34
83	Low-Density Lipoprotein Receptor-Related Protein-1 Protects Against Hepatic Insulin Resistance and Hepatic Steatosis. <i>EBioMedicine</i> , 2016 , 7, 135-45	8.8	34
82	Smooth muscle LDL receptor-related protein-1 inactivation reduces vascular reactivity and promotes injury-induced neointima formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 1772-8	9.4	33
81	The low density lipoprotein receptor-related protein can function independently from heparan sulfate proteoglycans in tissue factor pathway inhibitor endocytosis. <i>Journal of Biological Chemistry</i> , 1996 , 271, 25873-9	5.4	33
80	An extrahepatic receptor-associated protein-sensitive mechanism is involved in the metabolism of triglyceride-rich lipoproteins. <i>Journal of Biological Chemistry</i> , 1999 , 274, 35219-26	5.4	33
79	Imaging Subcellular Dynamics with Fast and Light-Efficient Volumetrically Parallelized Microscopy. <i>Optica</i> , 2017 , 4, 263-271	8.6	32
78	LRP1 controls cPLA2 phosphorylation, ABCA1 expression and cellular cholesterol export. <i>PLoS ONE</i> , 2009 , 4, e6853	3.7	32
77	Functional Roles of the Interaction of APP and Lipoprotein Receptors. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 54	6.1	31
76	Ectodomains of the LDL receptor-related proteins LRP1b and LRP4 have anchorage independent functions in vivo. <i>PLoS ONE</i> , 2010 , 5, e9960	3.7	31
75	Phosphoinositide binding by the disabled-1 PTB domain is necessary for membrane localization and Reelin signal transduction. <i>Journal of Biological Chemistry</i> , 2005 , 280, 9671-7	5.4	30
74	Functions of the LDL receptor gene family. <i>Annals of the New York Academy of Sciences</i> , 1994 , 737, 14-9	6.5	30
73	Reversal of ApoE4-induced recycling block as a novel prevention approach for Alzheimer's disease. <i>ELife</i> , 2018 , 7,	8.9	30
72	Antiphospholipid antibodies induce thrombosis by PP2A activation via apoER2-Dab2-SHC1 complex formation in endothelium. <i>Blood</i> , 2018 , 131, 2097-2110	2.2	29
71	Selectivity and Kinetic Requirements of HDAC Inhibitors as Progranulin Enhancers for Treating Frontotemporal Dementia. <i>Cell Chemical Biology</i> , 2017 , 24, 892-906.e5	8.2	29
70	The lipoprotein receptor LRP1 modulates sphingosine-1-phosphate signaling and is essential for vascular development. <i>Development (Cambridge)</i> , 2014 , 141, 4513-25	6.6	29
69	C1 inhibitor-C1s complexes are internalized and degraded by the low density lipoprotein receptor-related protein. <i>Journal of Biological Chemistry</i> , 1997 , 272, 31043-50	5.4	29
68	Role of smooth muscle cGMP/cGKI signaling in murine vascular restenosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1244-50	9.4	29
67	The 68 kDa protein of signal recognition particle contains a glycine-rich region also found in certain RNA-binding proteins. <i>FEBS Letters</i> , 1990 , 276, 103-7	3.8	29

66	LRP1 Deficiency in Vascular SMC Leads to Pulmonary Arterial Hypertension That Is Reversed by PPAR α Activation. <i>Circulation Research</i> , 2019 , 124, 1778-1785	15.7	28
65	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. <i>Journal of Comparative Neurology</i> , 2002 , 445, 278-92	3.4	28
64	Characterization and distribution of Reelin-positive interneuron subtypes in the rat barrel cortex. <i>Cerebral Cortex</i> , 2014 , 24, 3046-58	5.1	27
63	Differential splicing and glycosylation of Apoer2 alters synaptic plasticity and fear learning. <i>Science Signaling</i> , 2014 , 7, ra113	8.8	27
62	Loss of Reelin protects against atherosclerosis by reducing leukocyte-endothelial cell adhesion and lesion macrophage accumulation. <i>Science Signaling</i> , 2016 , 9, ra29	8.8	26
61	Lipoprotein receptors in the vascular wall. <i>Current Opinion in Lipidology</i> , 2004 , 15, 175-81	4.4	26
60	The gene for the human putative apoE receptor is on chromosome 12 in the segment q13-14. <i>Genomics</i> , 1989 , 5, 65-9	4.3	26
59	Cholesterol, hedgehog and embryogenesis. <i>Nature Genetics</i> , 1997 , 15, 123-4	36.3	25
58	Activation of ERK signaling upon alternative protease nexin-1 internalization mediated by syndecan-1. <i>Journal of Cellular Biochemistry</i> , 2006 , 99, 936-51	4.7	25
57	Lrp1 in osteoblasts controls osteoclast activity and protects against osteoporosis by limiting PDGF-RANKL signaling. <i>Bone Research</i> , 2018 , 6, 4	13.3	24
56	Differential signaling by adaptor molecules LRP1 and ShcA regulates adipogenesis by the insulin-like growth factor-1 receptor. <i>Journal of Biological Chemistry</i> , 2011 , 286, 16775-82	5.4	24
55	Involvement of the Apoer2 and Lrp1 receptors in mediating the pathological effects of ApoE4 in vivo. <i>Current Alzheimer Research</i> , 2014 , 11, 549-57	3	23
54	Intracellular lipid metabolism impairs cell compensation during diet-induced obesity. <i>Journal of Clinical Investigation</i> , 2018 , 128, 1178-1189	15.9	23
53	ApoER2 function in the establishment and maintenance of retinal synaptic connectivity. <i>Journal of Neuroscience</i> , 2011 , 31, 14413-23	6.6	22
52	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. <i>Oncotarget</i> , 2016 , 7, 68721-68733	3.3	22
51	NGP 555, a Secretase Modulator, Lowers the Amyloid Biomarker, A β in Cerebrospinal Fluid while Preventing Alzheimer's Disease Cognitive Decline in Rodents. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2017 , 3, 65-73	6	21
50	Convergent Signaling Pathways Controlled by LRP1 (Receptor-related Protein 1) Cytoplasmic and Extracellular Domains Limit Cellular Cholesterol Accumulation. <i>Journal of Biological Chemistry</i> , 2016 , 291, 5116-27	5.4	21
49	Role of the postnatal radial glial scaffold for the development of the dentate gyrus as revealed by Reelin signaling mutant mice. <i>Glia</i> , 2013 , 61, 1347-63	9	21

48	The LDL receptor gene family, apolipoprotein B and cholesterol in embryonic development. <i>Journal of Nutrition</i> , 1999 , 129, 473S-475S	4.1	21
47	Endocytosis of hepatic lipase and lipoprotein lipase into rat liver hepatocytes in vivo is mediated by the low density lipoprotein receptor-related protein. <i>Journal of Biological Chemistry</i> , 2004 , 279, 9030-6	5.4	19
46	Gene targets and approaches for raising HDL. <i>Circulation</i> , 1999 , 99, 12-4	16.7	18
45	Human apolipoprotein E isoforms differentially affect bone mass and turnover in vivo. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 236-45	6.3	17
44	The switch on the RAPper's necklace. <i>Molecular Cell</i> , 2006 , 23, 451-5	17.6	17
43	Endothelial LRP1 protects against neurodegeneration by blocking cyclophilin A. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	17
42	Contribution of the Reelin signaling pathways to nociceptive processing. <i>European Journal of Neuroscience</i> , 2008 , 27, 523-37	3.5	16
41	Loss of Apaf-1 leads to partial rescue of the HAND2-null phenotype. <i>Developmental Biology</i> , 2005 , 278, 155-62	3.1	15
40	Low-density lipoprotein receptor-related protein-1 dysfunction synergizes with dietary cholesterol to accelerate steatohepatitis progression. <i>Journal of Biological Chemistry</i> , 2018 , 293, 9674-9684	5.4	14
39	Lrp4 domains differentially regulate limb/brain development and synaptic plasticity. <i>PLoS ONE</i> , 2015 , 10, e0116701	3.7	14
38	Wnt signaling in the murine diastema. <i>European Journal of Orthodontics</i> , 2012 , 34, 518-24	3.3	14
37	Antiphospholipid antibodies attenuate endothelial repair and promote neointima formation in mice. <i>Journal of the American Heart Association</i> , 2014 , 3, e001369	6	13
36	"Devolution" of bipedality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, E25	11.5	13
35	The apoE receptor apoER2 is involved in the maintenance of efficient synaptic plasticity. <i>Neurobiology of Aging</i> , 2005 , 26, 195-206	5.6	13
34	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. <i>Biochemical Journal</i> , 1999 , 341, 377-383	3.8	13
33	High-Fat Diet Changes Hippocampal Apolipoprotein E (ApoE) in a Genotype- and Carbohydrate-Dependent Manner in Mice. <i>PLoS ONE</i> , 2016 , 11, e0148099	3.7	13
32	Secreted progranulin is a homodimer and is not a component of high density lipoproteins (HDL). <i>Journal of Biological Chemistry</i> , 2013 , 288, 8627-8635	5.4	12
31	Extracting amyloid from Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3199-200	11.5	12

30	Serum amyloid A delivers retinol to intestinal myeloid cells to promote adaptive immunity. <i>Science</i> , 2021 , 373, eabf9232	33.3	12
29	Ephrin Bs and canonical Reelin signalling. <i>Nature</i> , 2016 , 539, E4-E6	50.4	9
28	Distal Dendritic Enrichment of HCN1 Channels in Hippocampal CA1 Is Promoted by Estrogen, but Does Not Require Reelin. <i>ENeuro</i> , 2018 , 5,	3.9	9
27	Plasmodium sporozoites invade cells with targeted deletions in the LDL receptor related protein. <i>Molecular and Biochemical Parasitology</i> , 2000 , 106, 293-8	1.9	8
26	Lrp4/Wise regulates palatal rugae development through Turing-type reaction-diffusion mechanisms. <i>PLoS ONE</i> , 2018 , 13, e0204126	3.7	8
25	Loss of the adaptor protein ShcA in endothelial cells protects against monocyte macrophage adhesion, LDL-oxydation, and atherosclerotic lesion formation. <i>Scientific Reports</i> , 2018 , 8, 4501	4.9	7
24	Generation and characterization of an Nse-CreERT2 transgenic line suitable for inducible gene manipulation in cerebellar granule cells. <i>PLoS ONE</i> , 2014 , 9, e100384	3.7	7
23	Overview: the long and winding road to understanding Alzheimer's disease. <i>Neuron</i> , 2007 , 53, 477-9	13.9	7
22	Selective Inactivation of Reelin in Inhibitory Interneurons Leads to Subtle Changes in the Dentate Gyrus But Leaves Cortical Layering and Behavior Unaffected. <i>Cerebral Cortex</i> , 2020 , 30, 1688-1707	5.1	7
21	Reelin depletion protects against autoimmune encephalomyelitis by decreasing vascular adhesion of leukocytes. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	7
20	Kinetic Tuning of HDAC Inhibitors Affords Potent Inducers of Progranulin Expression. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 3769-3777	5.7	5
19	FE65 and FE65L1 amyloid precursor protein-binding protein compound null mice display adult-onset cataract and muscle weakness. <i>FASEB Journal</i> , 2015 , 29, 2628-39	0.9	5
18	Mouse models as tools for dissecting disorders of lipoprotein metabolism. <i>Seminars in Cell and Developmental Biology</i> , 2003 , 14, 25-35	7.5	5
17	Physiologic Reelin does not play a strong role in protection against acute stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 1295-303	7.3	5
16	Sodium-hydrogen exchanger 6 (NHE6) deficiency leads to hearing loss, via reduced endosomal signalling through the BDNF/Trk pathway. <i>Scientific Reports</i> , 2020 , 10, 3609	4.9	4
15	Putative apolipoprotein receptor gene (LRP, A2MR) is not rearranged in either myxoid liposarcoma or lipomas with translocations in 12q13-14. <i>Cancer Genetics and Cytogenetics</i> , 1992 , 60, 125-30		4
14	Splicing therapeutics for Alzheimer's disease. <i>EMBO Molecular Medicine</i> , 2016 , 8, 308-10	12	4
13	Building a better blood-brain barrier. <i>ELife</i> , 2017 , 6,	8.9	3

12	Reelin Depletion Protects Against Atherosclerosis by Decreasing Vascular Adhesion of Leukocytes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 1309-1318	9.4	3
11	Reelin signaling modulates GABA receptor function in the neocortex. <i>Journal of Neurochemistry</i> , 2021 , 156, 589-603	6	3
10	NGP 555, a secretase modulator, shows a beneficial shift in the ratio of amyloid biomarkers in human cerebrospinal fluid at safe doses. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2019 , 5, 458-467	6	2
9	CD11c ⁺ CD88 ⁺ CD317 ⁺ myeloid cells are critical mediators of persistent CNS autoimmunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
8	Reelin changes hippocampal learning in aging and Alzheimer's disease. <i>Behavioural Brain Research</i> , 2021 , 414, 113482	3.4	2
7	Biostatic transfection and expression analysis of acute cortical slices. <i>Journal of Neuroscience Methods</i> , 2020 , 337, 108666	3	1
6	Gene transfer and disruption strategies to elucidate hepatic lipoprotein receptor functions. <i>Atherosclerosis</i> , 1995 , 118, S37-S41	3.1	1
5	Reelin Regulates Neuronal Excitability through Striatal-Enriched Protein Tyrosine Phosphatase (STEP) and Calcium Permeable AMPARs in an NMDAR-Dependent Manner. <i>Journal of Neuroscience</i> , 2021 , 41, 7340-7349	6.6	1
4	Apolipoprotein E receptor 2 deficiency decreases endothelial adhesion of monocytes and protects against autoimmune encephalomyelitis. <i>Science Immunology</i> , 2021 , 6,	28	1
3	Protein Phosphatase 2A Activation Via ApoER2 in Trophoblasts Drives Preeclampsia in a Mouse Model of the Antiphospholipid Syndrome. <i>Circulation Research</i> , 2021 , 129, 735-750	15.7	1
2	Interplay of Low-Density Lipoprotein Receptors, LRP6, and Lipoproteins in Pulmonary Hypertension. <i>JACC Basic To Translational Science</i> , 2022 , 7, 164-180	8.7	0
1	Antiphospholipid Antibodies Promote Leukocyte-Endothelial Cell Adhesion by Antagonizing Endothelial NO Synthase Via b2GPI and ApoER2. <i>Blood</i> , 2009 , 114, 3039-3039	2.2	