Ruediger Klein

List of Publications by Citations

176 papers	31,173 citations	84 h-index	176 g-index
190 ext. papers	33,586 ext. citations	15.9 avg, IF	6.92 L-index

#	Paper	IF	Citations
176	Role of brain insulin receptor in control of body weight and reproduction. *Science*, **2000**, 289, 2122-5	33.3	1729
175	Disruption of the glucocorticoid receptor gene in the nervous system results in reduced anxiety. *Nature Genetics*, **1999**, 23, 99-103	36.3	1430
174	The trk proto-oncogene encodes a receptor for nerve growth factor. *Cell*, **1991**, 65, 189-97	56.2	1266
173	trkC, a new member of the trk family of tyrosine protein kinases, is a receptor for neurotrophin-3. *Cell*, **1991**, 66, 967-79	56.2	959
172	Mechanisms and functions of Eph and ephrin signalling. *Nature Reviews Molecular Cell Biology*, **2002**, 3, 475-86	48.7	934
171	Aberrant neural and cardiac development in mice lacking the ErbB4 neuregulin receptor. *Nature*, **1995**, 378, 390-4	50.4	928
170	Severe sensory and sympathetic neuropathies in mice carrying a disrupted Trk/NGF receptor gene. *Nature*, **1994**, 368, 246-9	50.4	859
169	The trkB tyrosine protein kinase is a receptor for brain-derived neurotrophic factor and neurotrophin-3. *Cell*, **1991**, 66, 395-403	56.2	813
168	Roles of ephrinB ligands and EphB receptors in cardiovascular development: demarcation of arterial/venous domains, vascular morphogenesis, and sprouting angiogenesis. *Genes and Development*, **1999**, 13, 295-306	12.6	799
167	Essential role for TrkB receptors in hippocampus-mediated learning. *Neuron*, **1999**, 24, 401-14	13.9	666
166	The trkB tyrosine protein kinase gene codes for a second neurogenic receptor that lacks the catalytic kinase domain. *Cell*, **1990**, 61, 647-56	56.2	666
165	Disruption of the neurotrophin-3 receptor gene trkC eliminates la muscle afferents and results in abnormal movements. *Nature*, **1994**, 368, 249-51	50.4	560
164	Targeted disruption of the trkB neurotrophin receptor gene results in nervous system lesions and neonatal death. *Cell*, **1993**, 75, 113-122	56.2	538
163	Similarities and differences in the way neurotrophins interact with the Trk receptors in neuronal and nonneuronal cells. *Neuron*, **1993**, 10, 137-49	13.9	497
162	The trk tyrosine protein kinase mediates the mitogenic properties of nerve growth factor and neurotrophin-3. *Cell*, **1991**, 66, 173-83	56.2	495
161	Beta1-class integrins regulate the development of laminae and folia in the cerebral and cerebellar cortex. *Neuron*, **2001**, 31, 367-79	13.9	490
160	Nuk controls pathfinding of commissural axons in the mammalian central nervous system. *Cell*, **1996**, 86, 35-46	56.2	468

159	trkB, a novel tyrosine protein kinase receptor expressed during mouse neural development.. *EMBO Journal*, **1989**, 8, 3701-3709	13	433
158	Essential Role of p38 MAP Kinase in Placental but Not Embryonic Cardiovascular Development. *Molecular Cell*, **2000**, 6, 109-116	17.6	432
157	A role for the Ras signalling pathway in synaptic transmission and long-term memory. *Nature*, **1997**, 390, 281-6	50.4	419
156	Tyro-3 family receptors are essential regulators of mammalian spermatogenesis. *Nature*, **1999**, 398, 723-8	50.4	379
155	PDZ interaction site in ephrinB2 is required for the remodeling of lymphatic vasculature. *Genes and Development*, **2005**, 19, 397-410	12.6	357
154	Mechanism of TrkB-mediated hippocampal long-term potentiation. *Neuron*, **2002**, 36, 121-37	13.9	353
153	Tyrosine phosphorylation of transmembrane ligands for Eph receptors. *Science*, **1997**, 275, 1640-3	33.3	351
152	Bidirectional modulation of synaptic functions by Eph/ephrin signaling. *Nature Neuroscience*, **2009**, 12, 15-20	25.5	331
151	Mechanisms of ephrin-Eph signalling in development, physiology and disease. *Nature Reviews Molecular Cell Biology*, **2016**, 17, 240-56	48.7	317
150	EphrinB ligands recruit GRIP family PDZ adaptor proteins into raft membrane microdomains. *Neuron*, **1999**, 22, 511-24	13.9	308
149	Bidirectional Eph-ephrin signaling during axon guidance. *Trends in Cell Biology*, **2007**, 17, 230-8	18.3	295
148	The trkB tyrosine protein kinase is a receptor for neurotrophin-4. *Neuron*, **1992**, 8, 947-56	13.9	288
147	EphB-ephrinB bi-directional endocytosis terminates adhesion allowing contact mediated repulsion. *Nature Cell Biology*, **2003**, 5, 869-78	23.4	281
146	Role of EphA4 and EphrinB3 in local neuronal circuits that control walking. *Science*, **2003**, 299, 1889-92	33.3	276
145	Uncoupling of Grb2 from the Met receptor in vivo reveals complex roles in muscle development. *Cell*, **1996**, 87, 531-42	56.2	275
144	Eph/ephrin signaling in morphogenesis, neural development and plasticity. *Current Opinion in Cell Biology*, **2004**, 16, 580-9	9	261
143	Sek4 and Nuk receptors cooperate in guidance of commissural axons and in palate formation.. *EMBO Journal*, **1996**, 15, 6035-6049	13	260
142	Kinase-independent requirement of EphB2 receptors in hippocampal synaptic plasticity. *Neuron*, **2001**, 32, 1027-40	13.9	259

141	EphrinB phosphorylation and reverse signaling: regulation by Src kinases and PTP-BL phosphatase. *Molecular Cell*, **2002**, 9, 725-37	17.6	254
140	The cytoplasmic domain of the ligand ephrinB2 is required for vascular morphogenesis but not cranial neural crest migration. *Cell*, **2001**, 104, 57-69	56.2	239
139	Notch activation induces apoptosis in neural progenitor cells through a p53-dependent pathway. *Developmental Biology*, **2004**, 269, 81-94	3.1	232
138	Role of neurotrophins in mouse neuronal development. *FASEB Journal*, **1994**, 8, 738-44	0.9	221
137	Cortical and retinal defects caused by dosage-dependent reductions in VEGF-A paracrine signaling. *Developmental Biology*, **2003**, 262, 225-41	3.1	218
136	Hippocampal plasticity requires postsynaptic ephrinBs. *Nature Neuroscience*, **2004**, 7, 33-40	25.5	215
135	Receptor tyrosine kinase ErbB4 modulates neuroblast migration and placement in the adult forebrain. *Nature Neuroscience*, **2004**, 7, 1319-28	25.5	215
134	Multiple roles of ephrins in morphogenesis, neuronal networking, and brain function. *Genes and Development*, **2003**, 17, 1429-50	12.6	213
133	Receptor-specific regulation of phosphatidylinositol 3Skinase activation by the protein tyrosine phosphatase Shp2. *Molecular and Cellular Biology*, **2002**, 22, 4062-72	4.8	210
132	Kinase-dependent and kinase-independent functions of EphA4 receptors in major axon tract formation in vivo. *Neuron*, **2001**, 29, 73-84	13.9	210
131	The collagen receptor DDR2 regulates proliferation and its elimination leads to dwarfism. *EMBO Reports*, **2001**, 2, 446-52	6.5	209
130	Neuron-glia communication via EphA4/ephrin-A3 modulates LTP through glial glutamate transport. *Nature Neuroscience*, **2009**, 12, 1285-92	25.5	206
129	Brain IGF-1 receptors control mammalian growth and lifespan through a neuroendocrine mechanism. *PLoS Biology*, **2008**, 6, e254	9.7	204
128	Mig6 is a negative regulator of EGF receptor-mediated skin morphogenesis and tumor formation. *Nature Medicine*, **2006**, 12, 568-73	50.5	203
127	Hepatocyte growth factor, a versatile signal for developing neurons. *Nature Neuroscience*, **1999**, 2, 213-7	25.5	203
126	Control of skeletal patterning by ephrinB1-EphB interactions. *Developmental Cell*, **2003**, 5, 217-30	10.2	199
125	Ephrin-B3 is the midline barrier that prevents corticospinal tract axons from recrossing, allowing for unilateral motor control. *Genes and Development*, **2001**, 15, 877-88	12.6	197
124	Met receptor signaling is required for sensory nerve development and HGF promotes axonal growth and survival of sensory neurons. *Genes and Development*, **1997**, 11, 3341-50	12.6	196

123	TrkB and TrkC neurotrophin receptors cooperate in promoting survival of hippocampal and cerebellar granule neurons. *Genes and Development*, **1996**, 10, 2849-58	12.6	196
122	In Situ Architecture and Cellular Interactions of PolyQ Inclusions. *Cell*, **2017**, 171, 179-187.e10	56.2	177
121	Signaling from axon guidance receptors. *Cold Spring Harbor Perspectives in Biology*, **2010**, 2, a001941	10.2	175
120	Discoidin domain receptor 2 regulates fibroblast proliferation and migration through the extracellular matrix in association with transcriptional activation of matrix metalloproteinase-2. *Journal of Biological Chemistry*, **2002**, 277, 3606-13	5.4	175
119	Point mutation in trkB causes loss of NT4-dependent neurons without major effects on diverse BDNF responses. *Neuron*, **1998**, 21, 335-45	13.9	169
118	c-Jun in Schwann cells promotes axonal regeneration and motoneuron survival via paracrine signaling. *Journal of Cell Biology*, **2012**, 198, 127-41	7.3	166
117	The Eph receptor family: axonal guidance by contact repulsion. *Trends in Genetics*, **1997**, 13, 354-9	8.5	162
116	Cooperation between GDNF/Ret and ephrinA/EphA4 signals for motor-axon pathway selection in the limb. *Neuron*, **2006**, 50, 35-47	13.9	162
115	ELF-2, a new member of the Eph ligand family, is segmentally expressed in mouse embryos in the region of the hindbrain and newly forming somites. *Molecular and Cellular Biology*, **1995**, 15, 4921-9	4.8	149
114	Eph/ephrin signalling during development. *Development (Cambridge)*, **2012**, 139, 4105-9	6.6	144
113	Absence of Ret signaling in mice causes progressive and late degeneration of the nigrostriatal system. *PLoS Biology*, **2007**, 5, e39	9.7	144
112	Excitatory Eph receptors and adhesive ephrin ligands. *Current Opinion in Cell Biology*, **2001**, 13, 196-203	9	141
111	High-affinity nerve growth factor receptor (Trk) immunoreactivity is localized in cholinergic neurons of the basal forebrain and striatum in the adult rat brain. *Brain Research*, **1993**, 612, 330-5	3.7	135
110	Multiple roles for hepatocyte growth factor in sympathetic neuron development. *Neuron*, **1998**, 20, 835-46	13.9	130
109	Signaling by Eph receptors and their ephrin ligands. *Current Opinion in Neurobiology*, **1998**, 8, 375-82	7.6	127
108	Coupling Met to specific pathways results in distinct developmental outcomes. *Molecular Cell*, **2001**, 7, 1293-306	17.6	125
107	EphA4-dependent axon guidance is mediated by the RacGAP alpha2-chimaerin. *Neuron*, **2007**, 55, 756-67	13.9	124
106	Forebrain-specific trkB-receptor knockout mice: behaviorally more hyperactive than "depressive". *Biological Psychiatry*, **2003**, 54, 972-82	7.9	124

105	Developmental changes in NT3 signalling via TrkA and TrkB in embryonic neurons.. *EMBO Journal*, **1995**, 14, 4482-4489	13	122
104	Induction of noncatalytic TrkB neurotrophin receptors during axonal sprouting in the adult hippocampus. *Journal of Neuroscience*, **1993**, 13, 4001-14	6.6	122
103	Eph receptors and ephrin ligands. essential mediators of vascular development. *Trends in Cardiovascular Medicine*, **2000**, 10, 183-8	6.9	120
102	Central amygdala circuits modulate food consumption through a positive-valence mechanism. *Nature Neuroscience*, **2017**, 20, 1384-1394	25.5	112
101	Transgenic mouse proteomics identifies new 14-3-3-associated proteins involved in cytoskeletal rearrangements and cell signaling. *Molecular and Cellular Proteomics*, **2006**, 5, 2211-27	7.6	110
100	Deletion of Shp2 in the brain leads to defective proliferation and differentiation in neural stem cells and early postnatal lethality. *Molecular and Cellular Biology*, **2007**, 27, 6706-17	4.8	109
99	Membrane-bound LERK2 ligand can signal through three different Eph-related receptor tyrosine kinases.. *EMBO Journal*, **1995**, 14, 3116-3126	13	107
98	FLRT2 and FLRT3 act as repulsive guidance cues for Unc5-positive neurons. *EMBO Journal*, **2011**, 30, 2920-33	13	101
97	Regulation of EphA 4 kinase activity is required for a subset of axon guidance decisions suggesting a key role for receptor clustering in Eph function. *Neuron*, **2005**, 47, 515-28	13.9	100
96	Discoidin domain receptor 2 interacts with Src and Shc following its activation by type I collagen. *Journal of Biological Chemistry*, **2002**, 277, 19206-12	5.4	99
95	Repairing the parkinsonian brain with neurotrophic factors. *Trends in Neurosciences*, **2011**, 34, 88-100	13.3	90
94	Absence of functional peroxisomes from mouse CNS causes dysmyelination and axon degeneration. *Journal of Neuroscience*, **2008**, 28, 4015-27	6.6	86
93	Knocking the NT4 gene into the BDNF locus rescues BDNF deficient mice and reveals distinct NT4 and BDNF activities. *Nature Neuroscience*, **2000**, 3, 350-7	25.5	85
92	Immunohistochemical evidence of seizure-induced activation of trkB receptors in the mossy fiber pathway of adult mouse hippocampus. *Journal of Neuroscience*, **2002**, 22, 7502-8	6.6	79
91	Progressive postnatal motoneuron loss in mice lacking GDF-15. *Journal of Neuroscience*, **2009**, 29, 13640-8	6.6	76
90	Human trk oncogenes activated by point mutation, in-frame deletion, and duplication of the tyrosine kinase domain. *Molecular and Cellular Biology*, **1990**, 10, 4202-10	4.8	76
89	Integration of guidance cues: parallel signaling and crosstalk. *Trends in Neurosciences*, **2013**, 36, 295-304	13.3	75
88	Pitx3 is a critical mediator of GDNF-induced BDNF expression in nigrostriatal dopaminergic neurons. *Journal of Neuroscience*, **2011**, 31, 12802-15	6.6	74

87	Telling axons where to grow: a role for Eph receptor tyrosine kinases in guidance. *Molecular and Cellular Neurosciences*, **1995**, 6, 487-95	4.8	74
86	Exosomes mediate cell contact-independent ephrin-Eph signaling during axon guidance. *Journal of Cell Biology*, **2016**, 214, 35-44	7.3	73
85	Regulation of Cerebral Cortex Folding by Controlling Neuronal Migration via FLRT Adhesion Molecules. *Cell*, **2017**, 169, 621-635.e16	56.2	72
84	Spatiotemporal Proteomic Profiling of Huntington's Disease Inclusions Reveals Widespread Loss of Protein Function. *Cell Reports*, **2017**, 21, 2291-2303	10.6	71
83	FLRT structure: balancing repulsion and cell adhesion in cortical and vascular development. *Neuron*, **2014**, 84, 370-85	13.9	70
82	Structurally encoded intraclass differences in EphA clusters drive distinct cell responses. *Nature Structural and Molecular Biology*, **2013**, 20, 958-64	17.6	69
81	Axon guidance: receptor complexes and signaling mechanisms. *Current Opinion in Neurobiology*, **2002**, 12, 250-9	7.6	69
80	Distinct requirements for TrkB and TrkC signaling in target innervation by sensory neurons. *Genes and Development*, **2002**, 16, 633-45	12.6	69
79	Neuron-astrocyte communication and synaptic plasticity. *Current Opinion in Neurobiology*, **2010**, 20, 466-73	7.6	68
78	Neocortical and cerebellar developmental abnormalities in conditions of selective elimination of peroxisomes from brain or from liver. *Journal of Neuroscience Research*, **2007**, 85, 58-72	4.4	67
77	The N-terminal globular domain of Eph receptors is sufficient for ligand binding and receptor signaling. *EMBO Journal*, **1997**, 16, 3889-97	13	64
76	Ephrin-B3, a ligand for the receptor EphB3, expressed at the midline of the developing neural tube. *Oncogene*, **1998**, 16, 471-80	9.2	64
75	Ephrin signalling in the developing nervous system. *Current Opinion in Neurobiology*, **2014**, 27, 16-24	7.6	62
74	Serine phosphorylation of ephrinB2 regulates trafficking of synaptic AMPA receptors. *Nature Neuroscience*, **2008**, 11, 1035-43	25.5	62
73	Mitogen-inducible gene 6 is an endogenous inhibitor of HGF/Met-induced cell migration and neurite growth. *Journal of Cell Biology*, **2005**, 171, 337-48	7.3	62
72	Structural Perspectives on Axon Guidance. *Annual Review of Cell and Developmental Biology*, **2016**, 32, 577-608	12.6	62
71	The composition of EphB2 clusters determines the strength in the cellular repulsion response. *Journal of Cell Biology*, **2014**, 204, 409-22	7.3	59
70	FLRT3 is a Robo1-interacting protein that determines Netrin-1 attraction in developing axons. *Current Biology*, **2014**, 24, 494-508	6.3	59

69	Met signaling is required for recruitment of motor neurons to PEA3-positive motor pools. *Neuron*, **2003**, 39, 767-77	13.9	59
68	Similarities and differences in the way transmembrane-type ligands interact with the Elk subclass of Eph receptors. *Molecular and Cellular Neurosciences*, **1996**, 8, 199-209	4.8	59
67	Inactivation of VCP/ter94 suppresses retinal pathology caused by misfolded rhodopsin in Drosophila. *PLoS Genetics*, **2010**, 6, e1001075	6	58
66	The trk family of tyrosine protein kinase receptors. *Biochimica Et Biophysica Acta: Reviews on Cancer* , **1991**, 1072, 115-27	11.2	58
65	Long-term monitoring of hippocampus-dependent behavior in naturalistic settings: mutant mice lacking neurotrophin receptor TrkB in the forebrain show spatial learning but impaired behavioral flexibility. *Hippocampus*, **2002**, 12, 27-38	3.5	55
64	GDNF acts as a chemoattractant to support ephrinA-induced repulsion of limb motor axons. *Current Biology*, **2010**, 20, 2150-6	6.3	54
63	The Rab5 guanylate exchange factor Rin1 regulates endocytosis of the EphA4 receptor in mature excitatory neurons. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12539-44	11.5	54
62	Super-complexes of adhesion GPCRs and neural guidance receptors. *Nature Communications*, **2016**, 7, 11184	17.4	53
61	Ret rescues mitochondrial morphology and muscle degeneration of Drosophila Pink1 mutants. *EMBO Journal*, **2014**, 33, 341-55	13	52
60	Genetic ablation of FLRT3 reveals a novel morphogenetic function for the anterior visceral endoderm in suppressing mesoderm differentiation. *Genes and Development*, **2008**, 22, 3349-62	12.6	51
59	RET signaling does not modulate MPTP toxicity but is required for regeneration of dopaminergic axon terminals. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 20049-54	11.5	49
58	Ephrin-B1 controls the columnar distribution of cortical pyramidal neurons by restricting their tangential migration. *Neuron*, **2013**, 79, 1123-35	13.9	46
57	Pro-survival role for Parkinson's associated gene DJ-1 revealed in trophically impaired dopaminergic neurons. *PLoS Biology*, **2010**, 8, e1000349	9.7	46
56	Structural basis of latrophilin-FLRT interaction. *Structure*, **2015**, 23, 774-81	5.2	45
55	EphrinB3/EphA4-mediated guidance of ascending and descending spinal tracts. *Neuron*, **2013**, 80, 1407-20	13.9	45
54	Anatomical coupling of sensory and motor nerve trajectory via axon tracking. *Neuron*, **2011**, 71, 263-77	13.9	45
53	EphB receptors and ephrin-B3 regulate axon guidance at the ventral midline of the embryonic mouse spinal cord. *Journal of Neuroscience*, **2006**, 26, 8909-14	6.6	43
52	Tyrosine phosphorylation sites in ephrinB2 are required for hippocampal long-term potentiation but not long-term depression. *Journal of Neuroscience*, **2007**, 27, 11279-88	6.6	41

51	TrkB and neurotrophin-4 are important for development and maintenance of sympathetic preganglionic neurons innervating the adrenal medulla. *Journal of Neuroscience*, **1998**, 18, 7272-84	6.6	41
50	The neuregulin receptor, ErbB4, is not required for normal development and adult maintenance of the substantia nigra pars compacta. *Journal of Neurochemistry*, **2004**, 91, 1302-11	6	38
49	Structural Basis of Teneurin-Latrophilin Interaction in Repulsive Guidance of Migrating Neurons. *Cell*, **2020**, 180, 323-339.e19	56.2	37
48	Genetic evidence for a contribution of EphA:ephrinA reverse signaling to motor axon guidance. *Journal of Neuroscience*, **2012**, 32, 5209-15	6.6	36
47	TEF-1 and C/EBPbeta are major p38alpha MAPK-regulated transcription factors in proliferating cardiomyocytes. *Biochemical Journal*, **2006**, 396, 163-72	3.8	34
46	Release of full-length EphB2 receptors from hippocampal neurons to cocultured glial cells. *Journal of Neuroscience*, **2006**, 26, 11575-81	6.6	32
45	Bidirectional signals establish boundaries. *Current Biology*, **1999**, 9, R691-4	6.3	32
44	Altered expression patterns of EphrinB2 and EphB2 in human umbilical vessels and congenital venous malformations. *Pediatric Research*, **2005**, 57, 537-44	3.2	31
43	Role for ephrinB2 in postnatal lung alveolar development and elastic matrix integrity. *Developmental Dynamics*, **2008**, 237, 2220-34	2.9	30
42	Shc-binding site in the TrkB receptor is not required for hippocampal long-term potentiation. *Neuropharmacology*, **2000**, 39, 717-24	5.5	30
41	EphA4-mediated ipsilateral corticospinal tract misprojections are necessary for bilateral voluntary movements but not bilateral stereotypic locomotion. *Journal of Neuroscience*, **2014**, 34, 5211-21	6.6	29
40	Intrinsic Circuits in the Lateral Central Amygdala. *ENeuro*, **2017**, 4,	3.9	29
39	Reduced acetylcholinesterase (AChE) activity in adrenal medulla and loss of sympathetic preganglionic neurons in TrkA-deficient, but not TrkB-deficient, mice. *Journal of Neuroscience*, **1997**, 17, 891-903	6.6	27
38	Survival of inner ear sensory neurons in trk mutant mice. *Mechanisms of Development*, **1997**, 64, 77-85	1.7	25
37	Genetic analysis of EphA-dependent signaling mechanisms controlling topographic mapping in vivo. *Development (Cambridge)*, **2006**, 133, 4415-20	6.6	25
36	EphA4 receptor shedding regulates spinal motor axon guidance. *Current Biology*, **2014**, 24, 2355-65	6.3	24
35	Cortical circuit alterations precede motor impairments in Huntington's disease mice. *Scientific Reports*, **2019**, 9, 6634	4.9	22
34	Genetic evidence for the adhesion protein IgSF9/Dasm1 to regulate inhibitory synapse development independent of its intracellular domain. *Journal of Neuroscience*, **2014**, 34, 4187-99	6.6	20

33	Cis and trans RET signaling control the survival and central projection growth of rapidly adapting mechanoreceptors. *ELife*, **2015**, 4, e06828	8.9	20
32	Tiam-Rac signaling mediates trans-endocytosis of ephrin receptor EphB2 and is important for cell repulsion. *Journal of Cell Biology*, **2016**, 214, 735-52	7.3	19
31	The protein dendrite arborization and synapse maturation 1 (Dasm-1) is dispensable for dendrite arborization. *Molecular and Cellular Biology*, **2008**, 28, 2782-91	4.8	18
30	Protein tyrosine phosphatase receptor type O inhibits trigeminal axon growth and branching by repressing TrkB and Ret signaling. *Journal of Neuroscience*, **2013**, 33, 5399-410	6.6	17
29	The in vivo contribution of motor neuron TrkB receptors to mutant SOD1 motor neuron disease. *Human Molecular Genetics*, **2011**, 20, 4116-31	5.6	17
28	The axonS balancing act: cis- and trans-interactions between Ephs and ephrins. *Neuron*, **2011**, 71, 1-3	13.9	16
27	The 89,000-Mr murine cytomegalovirus immediate-early protein stimulates c-fos expression and cellular DNA synthesis. *Journal of Virology*, **1988**, 62, 3341-7	6.6	16
26	The neurotrophin receptors TrkA and TrkB are inhibitory for neurite outgrowth. *European Journal of Neuroscience*, **1995**, 7, 1424-8	3.5	15
25	Placental labyrinth formation in mice requires endothelial FLRT2/UNC5B signaling. *Development (Cambridge)*, **2017**, 144, 2392-2401	6.6	14
24	Identification of Spinal Neurons Contributing to the Dorsal Column Projection Mediating Fine Touch and Corrective Motor Movements. *Neuron*, **2019**, 104, 749-764.e6	13.9	13
23	Gulp1 controls Eph/ephrin trogocytosis and is important for cell rearrangements during development. *Journal of Cell Biology*, **2019**, 218, 3455-3471	7.3	10
22	Diurnal variation of several blood parameters in the owl monkey, Aotus trivirgatus griseimembra. *Folia Primatologica*, **1985**, 45, 195-203	1.2	9
21	Cell sorting during regenerative tissue formation. *Cell*, **2010**, 143, 32-4	56.2	8
20	Multimodal Eph/Ephrin signaling controls several phases of urogenital development. *Kidney International*, **2016**, 90, 373-388	9.9	6
19	Fluc-EGFP reporter mice reveal differential alterations of neuronal proteostasis in aging and disease. *EMBO Journal*, **2021**, 40, e107260	13	5
18	Amyloid-like aggregates cause lysosomal defects in neurons via gain-of-function toxicity		4
17	The Insula Cortex Contacts Distinct Output Streams of the Central Amygdala. *Journal of Neuroscience*, **2020**, 40, 8870-8882	6.6	4
16	Spinal Inhibitory Ptf1a-Derived Neurons Prevent Self-Generated Itch. *Cell Reports*, **2020**, 33, 108422	10.6	4

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15	Amyloid-like aggregating proteins cause lysosomal defects in neurons via gain-of-function toxicity.. *Life Science Alliance*, **2022**, 5,	5.8	4
14	Axon guidance: opposing EPHects in the growth cone. *Cell*, **2005**, 121, 4-6	56.2	3
13	Long-term monitoring of hippocampus-dependent behavior in naturalistic settings: Mutant mice lacking neurotrophin receptor TrkB in the forebrain show spatial learning but impaired behavioral flexibility **2002**, 12, 27		3
12	The Eph Receptor Family **2015**, 165-264		2
11	Highly glycosylated PDGF-like molecule secreted by simian sarcoma virus-transformed cells. *Virology*, **1988**, 164, 403-10	3.6	2
10	Recent advances in inter-cellular interactions during neural circuit assembly. *Current Opinion in Neurobiology*, **2021**, 69, 25-32	7.6	2
9	Topography in hippocampal mossy fiber plasticity. *Neuron*, **2010**, 65, 580-2	13.9	1
8	Central amygdala circuits modulate food consumption through a positive valence mechanism		1
7	Natural loss of function of ephrin-B3 shapes spinal flight circuitry in birds. *Science Advances*, **2021**, 7,	14.3	1
6	FLRT2 and FLRT3 Cooperate in Maintaining the Tangential Migratory Streams of Cortical Interneurons during Development. *Journal of Neuroscience*, **2021**, 41, 7350-7362	6.6	1
5	Natural loss of function of ephrin-B3 shapes spinal flight circuitry in birds		1
4	FLRT3 Marks Direction-Selective Retinal Ganglion Cells That Project to the Medial Terminal Nucleus.. *Frontiers in Molecular Neuroscience*, **2021**, 14, 790466	6.1	1
3	Ephrins and Eph Receptors Synaptogenesis and Synaptic Function **2013**, 659-670		
2	Rüdiger Klein: reading the guideposts for axon guidance. Interview by Caitlin Sedwick. *Journal of Cell Biology*, **2011**, 194, 162-3	7.3	
1	Eph Receptors **2003**, 421-425		