Patrik Ernfors

List of Publications by Year
in descending order

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87	14,478	53660 45	51492 86
papers	citations	h-index	g-index

94	94	94	17765
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Architecture of the Mouse Nervous System. Cell, 2018, 174, 999-1014.e22.	13.5	2,002
2	Unbiased classification of sensory neuron types by large-scale single-cell RNA sequencing. Nature Neuroscience, 2015, 18, 145-153.	7.1	1,710
3	Mice lacking brain-derived neurotrophic factor develop with sensory deficits. Nature, 1994, 368, 147-150.	13.7	1,023
4	Oligodendrocyte heterogeneity in the mouse juvenile and adult central nervous system. Science, 2016, 352, 1326-1329.	6.0	817
5	Lack of neurotrophin-3 leads to deficiencies in the peripheral nervous system and loss of limb proprioceptive afferents. Cell, 1994, 77, 503-512.	13.5	767
6	Cells Expressing mRNA for Neurotrophins and their Receptors During Embryonic Rat Development. European Journal of Neuroscience, 1992, 4, 1140-1158.	1.2	479
7	Schwann Cell Precursors from Nerve Innervation Are a Cellular Origin of Melanocytes in Skin. Cell, 2009, 139, 366-379.	13.5	477
8	Sensory but not motor neuron deficits in mice lacking NT4 and BDNF. Nature, 1995, 375, 238-241.	13.7	357
9	Glial origin of mesenchymal stem cells in a tooth model system. Nature, 2014, 513, 551-554.	13.7	347
10	Spatiotemporal structure of cell fate decisions in murine neural crest. Science, 2019, 364, .	6.0	345
11	Specification and connectivity of neuronal subtypes in the sensory lineage. Nature Reviews Neuroscience, 2007, 8, 114-127.	4.9	330
12	Neuronal atlas of the dorsal horn defines its architecture and links sensory input to transcriptional cell types. Nature Neuroscience, 2018, 21, 869-880.	7.1	327
13	Normal feeding behavior, body weight and leptin response require the neuropeptide Y Y2 receptor. Nature Medicine, 1999, 5, 1188-1193.	15.2	261
14	An Atlas of Vagal Sensory Neurons and Their Molecular Specialization. Cell Reports, 2019, 27, 2508-2523.e4.	2.9	259
15	Histone H2AX-dependent GABAA receptor regulation of stem cell proliferation. Nature, 2008, 451, 460-464.	13.7	255
16	Protection of auditory neurons from aminoglycoside toxicity by neurotrophin-3. Nature Medicine, 1996, 2, 463-467.	15.2	251
17	Endocannabinoids regulate interneuron migration and morphogenesis by transactivating the TrkB receptor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 19115-19120.	3.3	251
18	Multipotent peripheral glial cells generate neuroendocrine cells of the adrenal medulla. Science, 2017, 357, .	6.0	251

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19	Specialized cutaneous Schwann cells initiate pain sensation. Science, 2019, 365, 695-699.	6.0	231
20	Molecular interactions underlying the specification of sensory neurons. Trends in Neurosciences, 2012, 35, 373-381.	4.2	226
21	Parasympathetic neurons originate from nerve-associated peripheral glial progenitors. Science, 2014, 345, 82-87.	6.0	181
22	Sox2 and Mitf cross-regulatory interactions consolidate progenitor and melanocyte lineages in the cranial neural crest. Development (Cambridge), 2012, 139, 397-410.	1.2	154
23	Diversification of molecularly defined myenteric neuron classes revealed by single-cell RNA sequencing. Nature Neuroscience, 2021, 24, 34-46.	7.1	151
24	Developmentally Regulated Expression of HDNF/NT-3 mRNA in Rat Spinal Cord Motoneurons and Expression of BDNF mRNA in Embryonic Dorsal Root Ganglion. European Journal of Neuroscience, 1991, 3, 953-961.	1.2	145
25	Cell cycle restriction by histone H2AX limits proliferation of adult neural stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5837-5842.	3.3	127
26	miR-183 cluster scales mechanical pain sensitivity by regulating basal and neuropathic pain genes. Science, 2017, 356, 1168-1171.	6.0	124
27	Septal cholinergic afferents regulate expression of brain-derived neurotrophic factor andÎ²-nerve growth factor mRNA in rat hippocampus. Experimental Brain Research, 1992, 88, 78-90.	0.7	123
28	Single cell transcriptomics of primate sensory neurons identifies cell types associated with chronic pain. Nature Communications, 2021, 12, 1510.	5.8	121
29	The Runx1/AML1 transcription factor selectively regulates development and survival of TrkA nociceptive sensory neurons. Nature Neuroscience, 2006, 9, 180-187.	7.1	117
30	Cell death in regenerating populations of neurons in BDNF mutant mice. Molecular Brain Research, 2000, 75, 61-69.	2.5	112
31	The boundary cap: a source of neural crest stem cells that generate multiple sensory neuron subtypes. Development (Cambridge), 2005, 132, 2623-2632.	1.2	112
32	Differential regulation of TRP channels in a rat model of neuropathic pain. Pain, 2009, 144, 187-199.	2.0	105
33	BDNF gene replacement reveals multiple mechanisms for establishing neurotrophin specificity during sensory nervous system development. Development (Cambridge), 2003, 130, 1479-1491.	1.2	103
34	In vitro and in vivo differentiation of boundary cap neural crest stem cells into mature Schwann cells. Experimental Neurology, 2006, 198, 438-449.	2.0	100
35	Dependence of developing group Ia afferents on neurotrophin-3. Journal of Comparative Neurology, 1995, 363, 307-320.	0.9	98
36	Visceral motor neuron diversity delineates a cellular basis for nipple- and pilo-erection muscle control. Nature Neuroscience, 2016, 19, 1331-1340.	7.1	91

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37	Brain-derived neurotrophic factor controls functional differentiation and microcircuit formation of selectively isolated fast-spiking GABAergic interneurons. European Journal of Neuroscience, 2004, 20, 1290-1306.	1.2	88
38	Cellular subtype distribution and developmental regulation of TRPC channel members in the mouse dorsal root ganglion. Journal of Comparative Neurology, 2007, 503, 35-46.	0.9	77
39	Complementary distribution of type 1 cannabinoid receptors and vesicular glutamate transporter 3 in basal forebrain suggests input-specific retrograde signalling by cholinergic neurons. European Journal of Neuroscience, 2003, 18, 1979-1992.	1.2	69
40	Cellular origin and developmental mechanisms during the formation of skin melanocytes. Experimental Cell Research, 2010, 316, 1397-1407.	1.2	67
41	Schwann Cell Precursors Generate the Majority of Chromaffin Cells in Zuckerkandl Organ and Some Sympathetic Neurons in Paraganglia. Frontiers in Molecular Neuroscience, 2019, 12, 6.	1.4	65
42	PAD2-Mediated Citrullination Contributes to Efficient Oligodendrocyte Differentiation and Myelination. Cell Reports, 2019, 27, 1090-1102.e10.	2.9	59
43	Single-cell RNA sequencing reveals the mesangial identity and species diversity of glomerular cell transcriptomes. Nature Communications, 2021, 12, 2141.	5.8	55
44	Neuropeptide Y alters sedation through a hypothalamic Y1-mediated mechanism. European Journal of Neuroscience, 2001, 13, 2241-2246.	1.2	52
45	Dynamic expression of the TRPM subgroup of ion channels in developing mouse sensory neurons. Gene Expression Patterns, 2010, 10, 65-74.	0.3	49
46	Mutations in the Endothelin Receptor Type A Cause Mandibulofacial Dysostosis with Alopecia. American Journal of Human Genetics, 2015, 96, 519-531.	2.6	47
47	The transcription factor Hmx1 and growth factor receptor activities control sympathetic neurons diversification. EMBO Journal, 2013, 32, 1613-1625.	3.5	45
48	Brain-derived neurotrophic factor selectively regulates dendritogenesis of parvalbumin-containing interneurons in the main olfactory bulb through the PLCÎ³ pathway. Journal of Neurobiology, 2006, 66, 1437-1451.	3.7	44
49	Identification of a large protein network involved in epigenetic transmission in replicating DNA of embryonic stem cells. Nucleic Acids Research, 2014, 42, 6972-6986.	6.5	42
50	The SARS-CoV-2 receptor ACE2 is expressed in mouse pericytes but not endothelial cells: Implications for COVID-19 vascular research. Stem Cell Reports, 2022, 17, 1089-1104.	2.3	41
51	Distinct roles of the Y1 and Y2 receptors on neuropeptide Y-induced sensitization to sedation. Journal of Neurochemistry, 2001, 78, 1201-1207.	2.1	40
52	PRDM12 Is Required for Initiation of the Nociceptive Neuron Lineage during Neurogenesis. Cell Reports, 2019, 26, 3484-3492.e4.	2.9	40
53	Demise of nociceptive Schwann cells causes nerve retraction and pain hyperalgesia. Pain, 2021, 162, 1816-1827.	2.0	40
54	Dependence on the transcription factor Shox2 for specification of sensory neurons conveying discriminative touch. European Journal of Neuroscience, 2011, 34, 1529-1541.	1.2	33

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55	Mouse Embryonic Stem Cell-Derived Spheres with Distinct Neurogenic Potentials. Stem Cells and Development, 2008, 17, 233-243.	1.1	29
56	Down regulation of TRPC1 by shRNA reduces mechanosensitivity in mouse dorsal root ganglion neurons in vitro. Neuroscience Letters, 2009, 457, 3-7.	1.0	29
57	Essential role of Ret for defining non-peptidergic nociceptor phenotypes and functions in the adult mouse. European Journal of Neuroscience, 2011, 33, 1385-1400.	1.2	28
58	Signals from the brain and olfactory epithelium control shaping of the mammalian nasal capsule cartilage. ELife, 2018, 7, .	2.8	28
59	Small molecule screening platform for assessment of cardiovascular toxicity on adult zebrafish heart. BMC Physiology, 2012, 12, 3.	3.6	27
60	Dorsal Root Ganglion Neuron Types and Their Functional Specialization. , 0, , 128-155.		24
61	Striking parallels between carotid body glomus cell and adrenal chromaffin cell development. Developmental Biology, 2018, 444, S308-S324.	0.9	22
62	Differential influence of BDNF and NT3 on the expression of calcium binding proteins and neuropeptide Y in vivo. NeuroReport, 2003, 14, 2183-2187.	0.6	20
63	Optimized mouse ES cell culture system by suspension growth in a fully defined medium. Nature Protocols, 2008, 3, 1013-1017.	5.5	19
64	NoRC Recruitment by H2A.X Deposition at rRNA Gene Promoter Limits Embryonic Stem Cell Proliferation. Cell Reports, 2018, 23, 1853-1866.	2.9	19
65	Human Labor Pain Is Influenced by the Voltage-Gated Potassium Channel KV6.4 Subunit. Cell Reports, 2020, 32, 107941.	2.9	18
66	Differential expression and dynamic changes of murine NEDD9 in progenitor cells of diverse tissues. Gene Expression Patterns, 2008, 8, 217-226.	0.3	17
67	Aminoglycoside excitement silences hearing. Nature Medicine, 1996, 2, 1313-1314.	15.2	16
68	The Oncolytic Efficacy and in Vivo Pharmacokinetics of [2-(4-Chlorophenyl)quinolin-4-yl](piperidine-2-yl)methanol (Vacquinol-1) Are Governed by Distinct Stereochemical Features. Journal of Medicinal Chemistry, 2016, 59, 8577-8592.	2.9	16
69	Engineering the Recruitment of Phosphotyrosine Binding Domain-containing Adaptor Proteins Reveals Distinct Roles for RET Receptor-mediated Cell Survival. Journal of Biological Chemistry, 2006, 281, 29886-29896.	1.6	15
70	New origin firing is inhibited by APC/C^{Cdh1}activation in S-phase after severe replication stress. Nucleic Acids Research, 2016, 44, 4745-4762.	6.5	15
71	Muscle-selective RUNX3 dependence of sensorimotor circuit development. Development (Cambridge), 2019, 146, .	1.2	15
72	Ca2+-binding protein NECAB2 facilitates inflammatory pain hypersensitivity. Journal of Clinical Investigation, 2018, 128, 3757-3768.	3.9	15

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73	En masse in vitro functional profiling of the axonal mechanosensitivity of sensory neurons. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16336-16341.	3.3	14
74	UHRF1 Licensed Self-Renewal of Active Adult Neural Stem Cells. Stem Cells, 2018, 36, 1736-1751.	1.4	14
75	Neural network learning defines glioblastoma features to be of neural crest perivascular or radial glia lineages. Science Advances, 2022, 8, .	4.7	11
76	Nuclear Factor-Îºb to the Rescue of Cytokine-Induced Neuronal Survival. Journal of Cell Biology, 2000, 148, 223-226.	2.3	10
77	Evaluating vacquinol-1 in rats carrying glioblastoma models RG2 and NS1. Oncotarget, 2018, 9, 8391-8399.	0.8	9
78	Termination of cell-type specification gene programs by miR-183 cluster determines the population sizes of low threshold mechanosensitive neurons. Development (Cambridge), 2018, 145, .	1.2	8
79	Nerves Do It Again: Donation of Mesenchymal Cells for Tissue Regeneration. Cell Stem Cell, 2019, 24, 195-197.	5.2	7
80	Contribution of neural crest and GLAST⁺ Wnt1⁺ bone marrow pericytes with liver fibrogenesis and/or regeneration. Liver International, 2020, 40, 977-987.	1.9	7
81	Differential membrane compartmentalization of Ret by PTBâ€adaptor engagement. FEBS Journal, 2008, 275, 2055-2066.	2.2	5
82	Cell migration by a FRS2â€adaptor dependent membrane relocation of ret receptors. Journal of Cellular Biochemistry, 2008, 104, 879-894.	1.2	4
83	Neurotrophic Factors as Pharmacological Agents for the Treatment of Injured Auditory Neurons. Novartis Foundation Symposium, 1996, 196, 149-166.	1.2	4
84	Pricking into Autonomic Reflex Pathways by Electrical Acupuncture. Neuron, 2020, 108, 395-397.	3.8	3
85	Identification and quantification of nociceptive Schwann cells in mice with and without Streptozotocin-induced diabetes. Journal of Chemical Neuroanatomy, 2022, 123, 102118.	1.0	3
86	Nerves transport stem-like cells generating parasympathetic neurons. Cell Cycle, 2014, 13, 2805-2806.	1.3	2
87	Glioblastoma cytotoxicity conferred through dual disruption of endolysosomal homeostasis by Vacquinol-1. Neuro-Oncology Advances, 2021, 3, vdab152.	0.4	1