

# Patrik Ernfors

## List of Publications by Citations

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**Version:** 2024-04-25

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85  
papers

10,439  
citations

42  
h-index

94  
g-index

94  
ext. papers

12,885  
ext. citations

16.2  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
85	Unbiased classification of sensory neuron types by large-scale single-cell RNA sequencing. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 145-53	25.5	1093
84	Molecular Architecture of the Mouse Nervous System. <i>Cell</i> , <b>2018</b> , 174, 999-1014.e22	56.2	1081
83	Mice lacking brain-derived neurotrophic factor develop with sensory deficits. <i>Nature</i> , <b>1994</b> , 368, 147-50	50.4	933
82	Lack of neurotrophin-3 leads to deficiencies in the peripheral nervous system and loss of limb proprioceptive afferents. <i>Cell</i> , <b>1994</b> , 77, 503-12	56.2	723
81	Oligodendrocyte heterogeneity in the mouse juvenile and adult central nervous system. <i>Science</i> , <b>2016</b> , 352, 1326-1329	33.3	497
80	Cells Expressing mRNA for Neurotrophins and their Receptors During Embryonic Rat Development. <i>European Journal of Neuroscience</i> , <b>1992</b> , 4, 1140-1158	3.5	450
79	Schwann cell precursors from nerve innervation are a cellular origin of melanocytes in skin. <i>Cell</i> , <b>2009</b> , 139, 366-79	56.2	366
78	Sensory but not motor neuron deficits in mice lacking NT4 and BDNF. <i>Nature</i> , <b>1995</b> , 375, 238-41	50.4	340
77	Specification and connectivity of neuronal subtypes in the sensory lineage. <i>Nature Reviews Neuroscience</i> , <b>2007</b> , 8, 114-27	13.5	279
76	Glial origin of mesenchymal stem cells in a tooth model system. <i>Nature</i> , <b>2014</b> , 513, 551-4	50.4	263
75	Normal feeding behavior, body weight and leptin response require the neuropeptide Y Y2 receptor. <i>Nature Medicine</i> , <b>1999</b> , 5, 1188-93	50.5	240
74	Protection of auditory neurons from aminoglycoside toxicity by neurotrophin-3. <i>Nature Medicine</i> , <b>1996</b> , 2, 463-7	50.5	230
73	Histone H2AX-dependent GABA(A) receptor regulation of stem cell proliferation. <i>Nature</i> , <b>2008</b> , 451, 460-4	50.4	218
72	Endocannabinoids regulate interneuron migration and morphogenesis by transactivating the TrkB receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 19115-20	11.5	215
71	Neuronal atlas of the dorsal horn defines its architecture and links sensory input to transcriptional cell types. <i>Nature Neuroscience</i> , <b>2018</b> , 21, 869-880	25.5	199
70	Spatiotemporal structure of cell fate decisions in murine neural crest. <i>Science</i> , <b>2019</b> , 364,	33.3	181
69	Molecular interactions underlying the specification of sensory neurons. <i>Trends in Neurosciences</i> , <b>2012</b> , 35, 373-81	13.3	166

68	Multipotent peripheral glial cells generate neuroendocrine cells of the adrenal medulla. <i>Science</i> , <b>2017</b> , 357,	33.3	154
67	Neurodevelopment. Parasympathetic neurons originate from nerve-associated peripheral glial progenitors. <i>Science</i> , <b>2014</b> , 345, 82-7	33.3	139
66	Developmentally Regulated Expression of HDNF/NT-3 mRNA in Rat Spinal Cord Motoneurons and Expression of BDNF mRNA in Embryonic Dorsal Root Ganglion. <i>European Journal of Neuroscience</i> , <b>1991</b> , 3, 953-961	3.5	134
65	An Atlas of Vagal Sensory Neurons and Their Molecular Specialization. <i>Cell Reports</i> , <b>2019</b> , 27, 2508-2523.e46	6.6	122
64	Specialized cutaneous Schwann cells initiate pain sensation. <i>Science</i> , <b>2019</b> , 365, 695-699	33.3	113
63	Septal cholinergic afferents regulate expression of brain-derived neurotrophic factor and beta-nerve growth factor mRNA in rat hippocampus. <i>Experimental Brain Research</i> , <b>1992</b> , 88, 78-90	2.3	113
62	Sox2 and Mitf cross-regulatory interactions consolidate progenitor and melanocyte lineages in the cranial neural crest. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 397-410	6.6	109
61	Cell cycle restriction by histone H2AX limits proliferation of adult neural stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 5837-42	11.5	105
60	The Runx1/AML1 transcription factor selectively regulates development and survival of TrkA nociceptive sensory neurons. <i>Nature Neuroscience</i> , <b>2006</b> , 9, 180-7	25.5	105
59	The boundary cap: a source of neural crest stem cells that generate multiple sensory neuron subtypes. <i>Development (Cambridge)</i> , <b>2005</b> , 132, 2623-32	6.6	99
58	Cell death in regenerating populations of neurons in BDNF mutant mice. <i>Molecular Brain Research</i> , <b>2000</b> , 75, 61-9		98
57	BDNF gene replacement reveals multiple mechanisms for establishing neurotrophin specificity during sensory nervous system development. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 1479-91	6.6	93
56	Dependence of developing group Ia afferents on neurotrophin-3. <i>Journal of Comparative Neurology</i> , <b>1995</b> , 363, 307-20	3.4	93
55	In vitro and in vivo differentiation of boundary cap neural crest stem cells into mature Schwann cells. <i>Experimental Neurology</i> , <b>2006</b> , 198, 438-49	5.7	89
54	Differential regulation of TRP channels in a rat model of neuropathic pain. <i>Pain</i> , <b>2009</b> , 144, 187-99	8	88
53	miR-183 cluster scales mechanical pain sensitivity by regulating basal and neuropathic pain genes. <i>Science</i> , <b>2017</b> , 356, 1168-1171	33.3	80
52	Brain-derived neurotrophic factor controls functional differentiation and microcircuit formation of selectively isolated fast-spiking GABAergic interneurons. <i>European Journal of Neuroscience</i> , <b>2004</b> , 20, 1290-306	3.5	77
51	Cellular subtype distribution and developmental regulation of TRPC channel members in the mouse dorsal root ganglion. <i>Journal of Comparative Neurology</i> , <b>2007</b> , 503, 35-46	3.4	64

50	Complementary distribution of type 1 cannabinoid receptors and vesicular glutamate transporter 3 in basal forebrain suggests input-specific retrograde signalling by cholinergic neurons. <i>European Journal of Neuroscience</i> , <b>2003</b> , 18, 1979-92	3.5	61
49	Visceral motor neuron diversity delineates a cellular basis for nipple- and pilo-erection muscle control. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 1331-40	25.5	58
48	Cellular origin and developmental mechanisms during the formation of skin melanocytes. <i>Experimental Cell Research</i> , <b>2010</b> , 316, 1397-407	4.2	56
47	Diversification of molecularly defined myenteric neuron classes revealed by single-cell RNA sequencing. <i>Nature Neuroscience</i> , <b>2021</b> , 24, 34-46	25.5	49
46	Neuropeptide Y alters sedation through a hypothalamic Y1-mediated mechanism. <i>European Journal of Neuroscience</i> , <b>2001</b> , 13, 2241-6	3.5	46
45	Dynamic expression of the TRPM subgroup of ion channels in developing mouse sensory neurons. <i>Gene Expression Patterns</i> , <b>2010</b> , 10, 65-74	1.5	43
44	Schwann Cell Precursors Generate the Majority of Chromaffin Cells in Zuckerkandl Organ and Some Sympathetic Neurons in Paraganglia. <i>Frontiers in Molecular Neuroscience</i> , <b>2019</b> , 12, 6	6.1	40
43	Brain-derived neurotrophic factor selectively regulates dendritogenesis of parvalbumin-containing interneurons in the main olfactory bulb through the PLCgamma pathway. <i>Journal of Neurobiology</i> , <b>2006</b> , 66, 1437-51		39
42	Distinct roles of the Y1 and Y2 receptors on neuropeptide Y-induced sensitization to sedation. <i>Journal of Neurochemistry</i> , <b>2001</b> , 78, 1201-7	6	39
41	Single cell transcriptomics of primate sensory neurons identifies cell types associated with chronic pain. <i>Nature Communications</i> , <b>2021</b> , 12, 1510	17.4	35
40	PAD2-Mediated Citrullination Contributes to Efficient Oligodendrocyte Differentiation and Myelination. <i>Cell Reports</i> , <b>2019</b> , 27, 1090-1102.e10	10.6	32
39	Identification of a large protein network involved in epigenetic transmission in replicating DNA of embryonic stem cells. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 6972-86	20.1	32
38	The transcription factor Hmx1 and growth factor receptor activities control sympathetic neurons diversification. <i>EMBO Journal</i> , <b>2013</b> , 32, 1613-25	13	32
37	Mutations in the endothelin receptor type A cause mandibulofacial dysostosis with alopecia. <i>American Journal of Human Genetics</i> , <b>2015</b> , 96, 519-31	11	28
36	Dependence on the transcription factor Shox2 for specification of sensory neurons conveying discriminative touch. <i>European Journal of Neuroscience</i> , <b>2011</b> , 34, 1529-41	3.5	25
35	Down regulation of TRPC1 by shRNA reduces mechanosensitivity in mouse dorsal root ganglion neurons in vitro. <i>Neuroscience Letters</i> , <b>2009</b> , 457, 3-7	3.3	24
34	Essential role of Ret for defining non-peptidergic nociceptor phenotypes and functions in the adult mouse. <i>European Journal of Neuroscience</i> , <b>2011</b> , 33, 1385-400	3.5	23
33	PRDM12 Is Required for Initiation of the Nociceptive Neuron Lineage during Neurogenesis. <i>Cell Reports</i> , <b>2019</b> , 26, 3484-3492.e4	10.6	22

32	Small molecule screening platform for assessment of cardiovascular toxicity on adult zebrafish heart. <i>BMC Physiology</i> , <b>2012</b> , 12, 3	0	22
31	Mouse embryonic stem cell-derived spheres with distinct neurogenic potentials. <i>Stem Cells and Development</i> , <b>2008</b> , 17, 233-43	4.4	22
30	Differential influence of BDNF and NT3 on the expression of calcium binding proteins and neuropeptide Y in vivo. <i>NeuroReport</i> , <b>2003</b> , 14, 2183-7	1.7	18
29	Optimized mouse ES cell culture system by suspension growth in a fully defined medium. <i>Nature Protocols</i> , <b>2008</b> , 3, 1013-7	18.8	17
28	Signals from the brain and olfactory epithelium control shaping of the mammalian nasal capsule cartilage. <i>ELife</i> , <b>2018</b> , 7,	8.9	16
27	Differential expression and dynamic changes of murine NEDD9 in progenitor cells of diverse tissues. <i>Gene Expression Patterns</i> , <b>2008</b> , 8, 217-26	1.5	14
26	Engineering the recruitment of phosphotyrosine binding domain-containing adaptor proteins reveals distinct roles for RET receptor-mediated cell survival. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 29886-96	5.4	13
25	Single-cell RNA sequencing reveals the mesangial identity and species diversity of glomerular cell transcriptomes. <i>Nature Communications</i> , <b>2021</b> , 12, 2141	17.4	13
24	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. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 8577-92	8.3	13
23	Striking parallels between carotid body glomus cell and adrenal chromaffin cell development. <i>Developmental Biology</i> , <b>2018</b> , 444 Suppl 1, S308-S324	3.1	13
22	NoRC Recruitment by H2A.X Deposition at rRNA Gene Promoter Limits Embryonic Stem Cell Proliferation. <i>Cell Reports</i> , <b>2018</b> , 23, 1853-1866	10.6	12
21	En masse in vitro functional profiling of the axonal mechanosensitivity of sensory neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 16336-41	11.5	12
20	New origin firing is inhibited by APC/CCdh1 activation in S-phase after severe replication stress. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 4745-62	20.1	10
19	UHRF1 Licensed Self-Renewal of Active Adult Neural Stem Cells. <i>Stem Cells</i> , <b>2018</b> , 36, 1736-1751	5.8	10
18	Nuclear factor-kappaB to the rescue of cytokine-induced neuronal survival. <i>Journal of Cell Biology</i> , <b>2000</b> , 148, 223-5	7.3	10
17	Molecular architecture of the mouse nervous system		10
16	Ca <sup>2+</sup> -binding protein NECAB2 facilitates inflammatory pain hypersensitivity. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 3757-3768	15.9	9
15	Dorsal Root Ganglion Neuron Types and Their Functional Specialization <b>2020</b> , 127-155		9

14	Evaluating vacquinol-1 in rats carrying glioblastoma models RG2 and NS1. <i>Oncotarget</i> , <b>2018</b> , 9, 8391-8399	3.3	8
13	Demise of nociceptive Schwann cells causes nerve retraction and pain hyperalgesia. <i>Pain</i> , <b>2021</b> , 162, 1816-1827		8 7
12	Termination of cell-type specification gene programs by the miR-183 cluster determines the population sizes of low-threshold mechanosensitive neurons. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	6
11	Muscle-selective RUNX3 dependence of sensorimotor circuit development. <i>Development (Cambridge)</i> , <b>2019</b> , 146,	6.6	5
10	Nerves Do It Again: Donation of Mesenchymal Cells for Tissue Regeneration. <i>Cell Stem Cell</i> , <b>2019</b> , 24, 195-197	18	4
9	Cell migration by a FRS2-adaptor dependent membrane relocation of ret receptors. <i>Journal of Cellular Biochemistry</i> , <b>2008</b> , 104, 879-94	4.7	4
8	Differential membrane compartmentalization of Ret by PTB-adaptor engagement. <i>FEBS Journal</i> , <b>2008</b> , 275, 2055-66	5.7	4
7	Human Labor Pain Is Influenced by the Voltage-Gated Potassium Channel K6.4 Subunit. <i>Cell Reports</i> , <b>2020</b> , 32, 107941	10.6	4
6	Neurotrophic factors as pharmacological agents for the treatment of injured auditory neurons. <i>Novartis Foundation Symposium</i> , <b>1996</b> , 196, 149-62; discussion 162-6		4
5	Single cell transcriptomics of primate sensory neurons identifies cell types associated with human chronic pain		3
4	Contribution of neural crest and GLAST Wnt1 bone marrow pericytes with liver fibrogenesis and/or regeneration. <i>Liver International</i> , <b>2020</b> , 40, 977-987	7.9	3
3	Diversification of molecularly defined myenteric neuron classes revealed by single cell RNA-sequencing		1
2	Pricking into Autonomic Reflex Pathways by Electrical Acupuncture. <i>Neuron</i> , <b>2020</b> , 108, 395-397	13.9	0
1	Glioblastoma cytotoxicity conferred through dual disruption of endolysosomal homeostasis by Vacquinol-1. <i>Neuro-Oncology Advances</i> , <b>2021</b> , 3, vda152	0.9	