

# Patrik Ernfors

## List of Publications by Year in Descending Order

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

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 | Glioblastoma cytotoxicity conferred through dual disruption of endolysosomal homeostasis by Vacquinol-1. <i>Neuro-Oncology Advances</i> , <b>2021</b> , 3, vdab152                                   | 0.9  |           |
| 84 | 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        |
| 83 | 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        |
| 82 | 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        |
| 81 | Demise of nociceptive Schwann cells causes nerve retraction and pain hyperalgesia. <i>Pain</i> , <b>2021</b> , 162, 1816-1827  | 8    | 7         |
| 80 | Pricking into Autonomic Reflex Pathways by Electrical Acupuncture. <i>Neuron</i> , <b>2020</b> , 108, 395-397  | 13.9 | 0         |
| 79 | 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         |
| 78 | 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         |
| 77 | Dorsal Root Ganglion Neuron Types and Their Functional Specialization <b>2020</b> , 127-155  |      | 9         |
| 76 | 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        |
| 75 | Spatiotemporal structure of cell fate decisions in murine neural crest. <i>Science</i> , <b>2019</b> , 364,  | 33.3 | 181       |
| 74 | An Atlas of Vagal Sensory Neurons and Their Molecular Specialization. <i>Cell Reports</i> , <b>2019</b> , 27, 2508-2523.e46  | 10.6 | 122       |
| 73 | PAD2-Mediated Citrullination Contributes to Efficient Oligodendrocyte Differentiation and Myelination. <i>Cell Reports</i> , <b>2019</b> , 27, 1090-1102.e10   | 10.6 | 32        |
| 72 | 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        |
| 71 | Nerves Do It Again: Donation of Mesenchymal Cells for Tissue Regeneration. <i>Cell Stem Cell</i> , <b>2019</b> , 24, 195-197   | 18   | 4         |
| 70 | Specialized cutaneous Schwann cells initiate pain sensation. <i>Science</i> , <b>2019</b> , 365, 695-699   | 33.3 | 113       |
| 69 | Muscle-selective RUNX3 dependence of sensorimotor circuit development. <i>Development (Cambridge)</i> , <b>2019</b> , 146,   | 6.6  | 5         |

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|----|---|------|------|
| 68 | 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  |
| 67 | Molecular Architecture of the Mouse Nervous System. <i>Cell</i> , <b>2018</b> , 174, 999-1014.e22   | 56.2 | 1081 |
| 66 | UHRF1 Licensed Self-Renewal of Active Adult Neural Stem Cells. <i>Stem Cells</i> , <b>2018</b> , 36, 1736-1751  | 5.8  | 10   |
| 65 | 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    |
| 64 | 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   |
| 63 | 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    |
| 62 | Evaluating vacquinol-1 in rats carrying glioblastoma models RG2 and NS1. <i>Oncotarget</i> , <b>2018</b> , 9, 8391-8399.  | 9.3  | 8    |
| 61 | 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   |
| 60 | 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   |
| 59 | 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   |
| 58 | Multipotent peripheral glial cells generate neuroendocrine cells of the adrenal medulla. <i>Science</i> , <b>2017</b> , 357,  | 33.3 | 154  |
| 57 | 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   |
| 56 | Oligodendrocyte heterogeneity in the mouse juvenile and adult central nervous system. <i>Science</i> , <b>2016</b> , 352, 1326-1329   | 33.3 | 497  |
| 55 | 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   |
| 54 | 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   |
| 53 | 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   |
| 52 | 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 |
| 51 | Glial origin of mesenchymal stem cells in a tooth model system. <i>Nature</i> , <b>2014</b> , 513, 551-4  | 50.4 | 263  |

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|----|--|------|-----|
| 50 | Neurodevelopment. Parasympathetic neurons originate from nerve-associated peripheral glial progenitors. <i>Science</i> , <b>2014</b> , 345, 82-7   | 33.3 | 139 |
| 49 | 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  |
| 48 | 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  |
| 47 | Small molecule screening platform for assessment of cardiovascular toxicity on adult zebrafish heart. <i>BMC Physiology</i> , <b>2012</b> , 12, 3  | 0    | 22  |
| 46 | Molecular interactions underlying the specification of sensory neurons. <i>Trends in Neurosciences</i> , <b>2012</b> , 35, 373-81  | 13.3 | 166 |
| 45 | 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 |
| 44 | 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  |
| 43 | 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  |
| 42 | 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 |
| 41 | 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  |
| 40 | 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  |
| 39 | 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  |
| 38 | 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 |
| 37 | Differential regulation of TRP channels in a rat model of neuropathic pain. <i>Pain</i> , <b>2009</b> , 144, 187-99  | 8    | 88  |
| 36 | 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  |
| 35 | Histone H2AX-dependent GABA(A) receptor regulation of stem cell proliferation. <i>Nature</i> , <b>2008</b> , 451, 460-4  | 50.4 | 218 |
| 34 | 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  |
| 33 | 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  |

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|----|---|------|-----|
| 32 | 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  |
| 31 | 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   |
| 30 | Differential membrane compartmentalization of Ret by PTB-adaptor engagement. <i>FEBS Journal</i> , <b>2008</b> , 275, 2055-66   | 5.7  | 4   |
| 29 | 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  |
| 28 | Specification and connectivity of neuronal subtypes in the sensory lineage. <i>Nature Reviews Neuroscience</i> , <b>2007</b> , 8, 114-27  | 13.5 | 279 |
| 27 | 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  |
| 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 | 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  |
| 24 | 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 |
| 23 | 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  |
| 22 | 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 |
| 21 | 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  |
| 20 | 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  |
| 19 | 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  |
| 18 | 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  |
| 17 | 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  |
| 16 | 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  |
| 15 | 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  |

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|----|---|------|-----|
| 14 | Cell death in regenerating populations of neurons in BDNF mutant mice. <i>Molecular Brain Research</i> , <b>2000</b> , 75, 61-9   |      | 98  |
| 13 | 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 |
| 12 | Protection of auditory neurons from aminoglycoside toxicity by neurotrophin-3. <i>Nature Medicine</i> , <b>1996</b> , 2, 463-7  | 50.5 | 230 |
| 11 | 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   |
| 10 | Sensory but not motor neuron deficits in mice lacking NT4 and BDNF. <i>Nature</i> , <b>1995</b> , 375, 238-41   | 50.4 | 340 |
| 9  | Dependence of developing group Ia afferents on neurotrophin-3. <i>Journal of Comparative Neurology</i> , <b>1995</b> , 363, 307-20  | 3.4  | 93  |
| 8  | Mice lacking brain-derived neurotrophic factor develop with sensory deficits. <i>Nature</i> , <b>1994</b> , 368, 147-50   | 50.4 | 933 |
| 7  | 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 |
| 6  | 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 |
| 5  | 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 |
| 4  | 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 |
| 3  | Diversification of molecularly defined myenteric neuron classes revealed by single cell RNA-sequencing  |      | 1   |
| 2  | Single cell transcriptomics of primate sensory neurons identifies cell types associated with human chronic pain   |      | 3   |
| 1  | Molecular architecture of the mouse nervous system  |      | 10  |