

Viktor Hamburger and Rita Levi-Montalcini: The Path to Factor

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Early Days of the Nerve Growth Factor Proteins. Annual Review of Neuroscience, 2001, 24, 601-629.	10.7	97
2	Cell and Developmental Biologyâ€”A Shared Past, an Intertwined Future. Developmental Cell, 2001, 1, 27-36.	7.0	10
3	Viktor Hamburger (1900â€”2001). Neuron, 2001, 31, 179-190.	8.1	13
4	Viktor Hamburger: A prepared, persistent, and deserving mind favored by many ?Fortuities?. Developmental Dynamics, 2001, 222, 545-551.	1.8	3
5	Localization and Globalization in Conscious Vision. Annual Review of Neuroscience, 2001, 24, 57-86.	10.7	207
6	Therapy of neurodegenerative diseases using neurotrophic factors: cell biological perspective. Expert Review of Neurotherapeutics, 2002, 2, 417-426.	2.8	9
7	Apoptosis, Axonal Growth Defects, and Degeneration of Peripheral Neurons in Mice Lacking CREB. Neuron, 2002, 34, 371-385.	8.1	311
8	Small Molecule Trk Receptor Agonists and Other Neurotrophic Factor Mimetics. CNS and Neurological Disorders, 2002, 1, 59-80.	4.3	40
9	Neurotrophic cross-talk between the nervous and immune systems: Implications for neurological diseases. Annals of Neurology, 2003, 53, 292-304.	5.3	260
10	Sympathetic neurons synthesize and secrete pro-nerve growth factor protein. Journal of Neurobiology, 2003, 57, 38-53.	3.6	59
11	Induction of neuropilins-1 and -2 and their ligands, Sema3A, Sema3F, and VEGF, during Wallerian degeneration in the peripheral nervous system. Experimental Neurology, 2003, 183, 489-498.	4.1	49
12	Nerve growth factor regulates human choroidal, but not retinal, endothelial cell migration and proliferation. Autonomic Neuroscience: Basic and Clinical, 2003, 108, 57-62.	2.8	46
13	Nerve Growth Factor (NGF). , 2003, , 1-8.		0
14	Cell Signaling: Yesterday, Today, and Tomorrow. , 2003, , 1-3.		5
15	NGF deprivation-induced gene expression: after ten years, where do we stand?. Progress in Brain Research, 2004, 146, 111-126.	1.4	81
16	Heterogeneous Requirement of NGF for Sympathetic Target Innervation<i> In Vivo</i>. Journal of Neuroscience, 2004, 24, 743-751.	3.6	204
17	A Pact with the Embryo: Viktor Hamburger, Holistic and Mechanistic Philosophy in the Development of Neuroembryology, 1927?1955. Journal of the History of Biology, 2004, 37, 421-475.	0.5	13
18	The generation and diversification of spinal motor neurons: signals and responses. Mechanisms of Development, 2004, 121, 1103-1115.	1.7	56

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19	The many functions of nerve growth factor: multiple actions on nociceptors. <i>Neuroscience Letters</i> , 2004, 361, 168-171.	2.1	98
20	Tyrosine phosphatase SHP-2 is a mediator of activity-dependent neuronal excitotoxicity. <i>EMBO Journal</i> , 2005, 24, 305-314.	7.8	33
21	Peripheral mechanisms. , 2005, , 7-16.		0
22	Is There A Role for Neurotrophin Treatment of the Ocular Surface Following Laser In Situ Keratomileusis (LASIK)?. <i>American Journal of Ophthalmology</i> , 2005, 139, 1090-1094.	3.3	9
23	GROWTH AND SURVIVAL SIGNALS CONTROLLING SYMPATHETIC NERVOUS SYSTEM DEVELOPMENT. <i>Annual Review of Neuroscience</i> , 2005, 28, 191-222.	10.7	244
24	Nerve Growth Factor and Related Proteins. , 2006, , 1-9.		2
25	ADAPTIVE ROLES OF PROGRAMMED CELL DEATH DURING NERVOUS SYSTEM DEVELOPMENT. <i>Annual Review of Neuroscience</i> , 2006, 29, 1-35.	10.7	352
26	Retrograde Control of Neural Circuit Formation. <i>Cell</i> , 2006, 127, 1306-1307.	28.9	2
27	Disease mechanisms in hereditary sensory and autonomic neuropathies. <i>Neurobiology of Disease</i> , 2006, 21, 247-255.	4.4	35
28	Effects of the neuropeptides substance P, calcitonin gene-related peptide, vasoactive intestinal polypeptide and galanin on the production of nerve growth factor and inflammatory cytokines in cultured human keratinocytes. <i>Neuropeptides</i> , 2006, 40, 251-263.	2.2	140
29	Axon Growth and Guidance. <i>Advances in Experimental Medicine and Biology</i> , 2007, , .	1.6	6
30	Cell cycle molecules define a pathway required for neuron death in development and disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2007, 1772, 392-401.	3.8	108
31	Chance, Creativity, and the Discovery of the Nerve Growth Factor. <i>Journal of the History of the Neurosciences</i> , 2007, 16, 268-287.	0.9	4
32	The Skin as a Neurotrophic Organ. <i>Neuroscientist</i> , 2007, 13, 371-382.	3.5	48
33	Repair of neural pathways by olfactory ensheathing cells. <i>Nature Reviews Neuroscience</i> , 2007, 8, 312-319.	10.2	173
34	Paracrinicity: The Story of 30 Years of Cellular Pituitary Crosstalk. <i>Journal of Neuroendocrinology</i> , 2008, 20, 1-70.	2.6	181
35	Feedback-mediated neuronal competition for survival cues regulates innervation of a target tissue. <i>BioEssays</i> , 2008, 30, 929-933.	2.5	2
36	Probing the binding mechanism and affinity of tanezumab, a recombinant humanized anti-NGF monoclonal antibody, using a repertoire of biosensors. <i>Protein Science</i> , 2008, 17, 1326-1335.	7.6	133

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37	Beyond neuropathy in hereditary sensory and autonomic neuropathy type V: cognitive evaluation. <i>European Journal of Neurology</i> , 2008, 15, 712-719.	3.3	20
38	Nerve sprouting suppresses myocardial Ito and IK1 channels and increases severity to ventricular fibrillation in rat. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008, 144, 22-29.	2.8	29
39	The Development of Developmental Neuroscience. <i>Journal of Neuroscience</i> , 2009, 29, 12735-12747.	3.6	9
40	Neuronal apoptosis by prolyl hydroxylation: implication in nervous system tumours and the Warburg conundrum. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 4104-4112.	3.6	27
41	Novel NGF-potentiating diterpenoids from a Brazilian medicinal plant, <i>Ptychopetalum olacoides</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 882-886.	2.2	34
42	Development of the autonomic nervous system: New perspectives and open questions. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2009, 151, 1-2.	2.8	5
43	Nerve Growth Factor. , 2009, , 71-78.		6
44	Topical administration of adrenergic receptor pharmaceuticals and nerve growth factor. <i>Clinical Ophthalmology</i> , 2010, 4, 605.	1.8	5
45	Guidance Molecules in Axon Pruning and Cell Death. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a001859-a001859.	5.5	106
46	Circulating levels of brain-derived neurotrophic factor: correlation with mood, cognition and motor function. <i>Biomarkers in Medicine</i> , 2010, 4, 871-887.	1.4	137
47	Chemistry and Biological Activities of Vibane-Type Diterpenoids. <i>Heterocycles</i> , 2010, 81, 1571.	0.7	49
48	Neurotrophins and acupuncture. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2010, 157, 9-17.	2.8	87
49	A Conversation with Rita Levi-Montalcini. <i>Annual Review of Physiology</i> , 2010, 72, 1-13.	13.1	21
50	Cell Signaling. , 2010, , 1-4.		32
51	Cell Death in Spinal Cord Injury – An Evolving Taxonomy with Therapeutic Promise. , 0, , 164-175.		0
52	Effect of Strychnine, a Glycine Inhibitor, on the Programmed Cell Death of Motoneurons during the Chick Development. <i>Experimental Neurobiology</i> , 2011, 20, 176-180.	1.6	0
53	Neuroprotection by Ulinastatin in Experimental Autoimmune Encephalomyelitis. <i>Neurochemical Research</i> , 2011, 36, 1969-1977.	3.3	23
54	Neuroinflammation and Neuroprotection: An Update on (Future) Neurotrophin-Related Strategies in Multiple Sclerosis Treatment. <i>Current Medicinal Chemistry</i> , 2011, 18, 1775-1784.	2.4	28

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55	Who Lives and Who Dies. <i>Communicative and Integrative Biology</i> , 2011, 4, 495-497.	1.4	4
56	Nerve Growth Factor-Potentiating Benzofuran Derivatives from the Medicinal Fungus <i>Phellinus ribis</i> . <i>Journal of Natural Products</i> , 2012, 75, 2152-2157.	3.0	56
57	Nerve growth factor: from the early discoveries to the potential clinical use. <i>Journal of Translational Medicine</i> , 2012, 10, 239.	4.4	352
58	Spirocyclic Nortriterpenoids with NGF-Potentiating Activity from the Fruits of <i>Leonurus heterophyllus</i> . <i>Journal of Natural Products</i> , 2012, 75, 1353-1358.	3.0	23
59	Rita Levi-Montalcini (1909–2012). <i>Journal of Neurology</i> , 2013, 260, 940-941.	3.6	0
60	Rita Levi-Montalcini: The story of an uncommon intellect and spirit. <i>Neuroscience</i> , 2013, 252, 431-437.	2.3	5
61	Glia cell line-derived neurotrophic factor mediates survival of murine sympathetic precursors. <i>Journal of Neuroscience Research</i> , 2013, 91, 780-785.	2.9	2
62	Drug Delivery Systems for the Treatment of Ischemic Stroke. <i>Pharmaceutical Research</i> , 2013, 30, 2429-2444.	3.5	46
63	Neurotrophic molecules in the treatment of neurodegenerative disease with focus on the retina: status and perspectives. <i>Cell and Tissue Research</i> , 2013, 353, 205-218.	2.9	23
64	Rita Levi-Montalcini, one of the most prominent Italian personalities of the twentieth century. <i>Neurological Sciences</i> , 2013, 34, 131-133.	1.9	2
65	Acupuncture and Neurotrophin Modulation. <i>International Review of Neurobiology</i> , 2013, 111, 91-124.	2.0	24
66	Programmed Cell Death and Neurotrophic Factors. , 2013, , 405-435.		9
67	Neurotrophins and spinal circuit function. <i>Frontiers in Neural Circuits</i> , 2014, 8, 59.	2.8	59
69	Neurotrophin repair of spinal cord damage. , 0, , 400-412.		1
70	The Nerve Growth Factor Signaling and Its Potential as Therapeutic Target for Glaucoma. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	64
71	The Effects of Neurotrophins and the Neuropeptides VIP and PACAP on HIV-1 Infection: Histories with Opposite Ends. <i>NeuroImmunoModulation</i> , 2014, 21, 268-282.	1.8	9
72	Chemical Diversity of Vibane-Type Diterpenoids and Neurotrophic Activity and Synthesis of Neovibsanin. <i>Studies in Natural Products Chemistry</i> , 2014, 43, 41-78.	1.8	5
73	Biasing Receptor Tyrosine Kinase Signaling Pathways. , 2014, , 137-172.		2

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74	Programmed Cell Death and Caspase Functions During Neural Development. Current Topics in Developmental Biology, 2015, 114, 159-184.	2.2	36
75	Role of Nerve Growth Factor in Development and Persistence of Experimental Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 342-355.	5.6	30
76	Polyphenols, Nerve Growth Factor, Brain-Derived Neurotrophic Factor, and the Brain. , 2015, , 65-71.		7
77	Simultaneous Inferior Alveolar Nerve Regeneration and Osseointegration With a Nerve Growth Factor-Supplying Implant: A Preliminary Study. Journal of Oral and Maxillofacial Surgery, 2015, 73, 410-423.	1.2	12
78	Molecular Control of the Neural Crest and Peripheral Nervous System Development. Current Topics in Developmental Biology, 2015, 111, 201-231.	2.2	36
79	Isolation, structural characterization and neurotrophic activity of a polysaccharide from Phellinus ribis. Carbohydrate Polymers, 2015, 127, 145-151.	10.2	43
80	Programmed Cell Death in Neurodevelopment. Developmental Cell, 2015, 32, 478-490.	7.0	199
81	Control of adult neurogenesis by programmed cell death in the mammalian brain. Molecular Brain, 2016, 9, 43.	2.6	96
82	Genomic control of neuronal demographics in the retina. Progress in Retinal and Eye Research, 2016, 55, 246-259.	15.5	21
83	Targeted delivery of growth factors in ischemic stroke animal models. Expert Opinion on Drug Delivery, 2016, 13, 709-723.	5.0	12
84	Treatment with platelet-derived growth factor (PDGF) and rock inhibitors is related to declined nerve growth factor (NGF) signaling in an experimental model of rat pulmonary hypertension. Pharmacological Reports, 2017, 69, 532-535.	3.3	3
86	TRPC Channels and Programmed Cell Death. Advances in Experimental Medicine and Biology, 2017, 976, 47-60.	1.6	5
87	Neurotrophins. Vitamins and Hormones, 2017, 104, 243-261.	1.7	30
88	Trophic Factor, Nutritional, and Hormonal Regulation of Brain Development. , 2017, , 1326-1333.e3.		3
89	Nerve Growth Factor α 1. , 2017, , .		0
90	Signaling Peptides: Hidden Molecular Messengers of Abiotic Stress Perception and Response in Plants. , 2018, , 95-125.		4
91	Cell death in neural precursor cells and neurons before neurite formation prevents the emergence of abnormal neural structures in the Drosophila optic lobe. Developmental Biology, 2018, 436, 28-41.	2.0	5
92	Mechanisms of neurotrophin trafficking via Trk receptors. Molecular and Cellular Neurosciences, 2018, 91, 25-33.	2.2	82

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93	Rita Levi-Montalcini and her major contribution to neurobiology. <i>Rendiconti Lincei</i> , 2018, 29, 737-753.	2.2	2
94	Chronic Increases in Daily Neuromuscular Activity Promote Changes in Gene Expression in Small and Large Dorsal Root Ganglion Neurons in Rat. <i>Neuroscience</i> , 2018, 388, 171-180.	2.3	14
95	BDNF and endocannabinoids in brain development: neuronal commitment, migration, and synaptogenesis. , 2019, , 133-147.		0
96	A cell fitness selection model for neuronal survival during development. <i>Nature Communications</i> , 2019, 10, 4137.	12.8	10
97	The Brain NGF Metabolic Pathway in Health and in Alzheimer's Pathology. <i>Frontiers in Neuroscience</i> , 2019, 13, 62.	2.8	73
98	Ectopic nerve growth factor prevents proliferation in glioma cells by senescence induction. <i>Journal of Cellular Physiology</i> , 2019, 234, 6820-6830.	4.1	6
100	The delicate balance between neurotoxicity and neuroprotection in the context of HIV infection. <i>Glia</i> , 2021, 69, 255-280.	4.9	8
101	Leukemia inhibitory factor regulates Schwann cell proliferation and migration and affects peripheral nerve regeneration. <i>Cell Death and Disease</i> , 2021, 12, 417.	6.3	19
102	The sympathetic nervous system in development and disease. <i>Nature Reviews Neuroscience</i> , 2021, 22, 685-702.	10.2	64
103	Neurotrophic Factors: Are They Axon Guidance Molecules?. <i>Advances in Experimental Medicine and Biology</i> , 2007, 621, 81-94.	1.6	13
104	Neurotrophic Factors in the Peripheral Nervous System. , 2005, , 377-386.		18
105	Neurotrophins and Pain. , 2008, , 259-278.		1
106	Frizzled3 controls axonal development in distinct populations of cranial and spinal motor neurons. <i>ELife</i> , 2013, 2, e01482.	6.0	47
107	Histoire des contributions neurologiques dans les Archives suisses de neurologie et de psychiatrie. <i>Swiss Archives of Neurology, Psychiatry and Psychotherapy</i> , 2006, 157, 62-76.	0.0	2
108	History of neurological contributions in the Swiss Archives of Neurology and Psychiatry. <i>Swiss Archives of Neurology, Psychiatry and Psychotherapy</i> , 2008, 159, 157-170.	0.0	0
109	Trophic Factor and Nutritional and Hormonal Regulation of Brain Development. , 2011, , 1862-1870.		0
111	NGF and Immune Regulation. , 2014, , 1849-1876.		1
112	Who lives and who dies: Role of apoptosis in quashing developmental errors. <i>Communicative and Integrative Biology</i> , 2011, 4, 495-7.	1.4	1

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113	Nerve Growth Factor (NGF) Inhibitors and Related Agents for Chronic Musculoskeletal Pain: A Comprehensive Review. <i>BioDrugs</i> , 2021, 35, 611-641.	4.6	13
114	The studies of Rita <sc>Levi&Montalcini</sc> on the effects of tumor transplantation on the chorioallantoic membrane. <i>Clinical Anatomy</i> , 2022, , .	2.7	0
116	Nerve Growth Factor Promotes Retinal Neurovascular Unit Repair: A Review. <i>Current Eye Research</i> , 2022, 47, 1095-1105.	1.5	5
117	Inflammation and Oxidative Stress Induce NGF Secretion by Pulmonary Arterial Cells through a TGF- β 1-Dependent Mechanism. <i>Cells</i> , 2022, 11, 2795.	4.1	3
118	Nerve growth factor and burn wound healing: Update of molecular interactions with skin cells. <i>Burns</i> , 2023, 49, 989-1002.	1.9	10
119	Neurotrophins and Cell Death. , 2023, , 55-75.		0
121	Acupuncture for neuropathic pain: focusing on the sympathetic nerve system. , 2023, 3, 139-148.		2
122	Pancreatic ductal adenocarcinoma induces neural injury that promotes a transcriptomic and functional repair signature by peripheral neuroglia. <i>Oncogene</i> , 2023, 42, 2536-2546.	5.9	2
123	Programmed Cell Death in Unicellular Versus Multicellular Organisms. <i>Annual Review of Genetics</i> , 2023, 57, .	7.6	0
124	An Integrative Approach to the Current Treatment of HIV-Associated Neurocognitive Disorders and the Implementation of Leukemia Inhibitor Factor as a Mediator of Neurocognitive Preservation. <i>Life</i> , 2023, 13, 2194.	2.4	0
125	The significance of Ethel Browne's research on Hydra for the organizer concept. <i>Cells and Development</i> , 2024, , 203907.	1.5	0