

Joost Verhaagen

List of Publications by Year in descending order

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62
papers

3,978
citations

109321

35
h-index

128289

60
g-index

70
all docs

70
docs citations

70
times ranked

5010
citing authors

#	ARTICLE	IF	CITATIONS
1	ALS as a distal axonopathy: molecular mechanisms affecting neuromuscular junction stability in the presymptomatic stages of the disease. <i>Frontiers in Neuroscience</i> , 2014, 8, 252.	2.8	240
2	Evidence for a Role of the Chemorepellent Semaphorin III and Its Receptor Neuropilin-1 in the Regeneration of Primary Olfactory Axons. <i>Journal of Neuroscience</i> , 1998, 18, 9962-9976.	3.6	181
3	<i>Ex Vivo</i> Adenoviral Vector-Mediated Neurotrophin Gene Transfer to Olfactory Ensheathing Glia: Effects on Rubrospinal Tract Regeneration, Lesion Size, and Functional Recovery after Implantation in the Injured Rat Spinal Cord. <i>Journal of Neuroscience</i> , 2003, 23, 7045-7058.	3.6	168
4	Purification of Recombinant Adeno-Associated Virus by Iodixanol Gradient Ultracentrifugation Allows Rapid and Reproducible Preparation of Vector Stocks for Gene Transfer in the Nervous System. <i>Human Gene Therapy</i> , 1999, 10, 1885-1891.	2.7	162
5	Analysis of Gene Expression in Parkinson's Disease: Possible Involvement of Neurotrophic Support and Axon Guidance in Dopaminergic Cell Death. <i>Brain Pathology</i> , 2009, 19, 91-107.	4.1	159
6	The expression of the chemorepellent Semaphorin 3A is selectively induced in terminal Schwann cells of a subset of neuromuscular synapses that display limited anatomical plasticity and enhanced vulnerability in motor neuron disease. <i>Molecular and Cellular Neurosciences</i> , 2006, 32, 102-117.	2.2	154
7	Olfactory ensheathing glia: Their contribution to primary olfactory nervous system regeneration and their regenerative potential following transplantation into the injured spinal cord. <i>Brain Research Reviews</i> , 2007, 56, 236-258.	9.0	150
8	Peripheral nerve injury fails to induce growth of lesioned ascending dorsal column axons into spinal cord scar tissue expressing the axon repellent Semaphorin3A. <i>European Journal of Neuroscience</i> , 2001, 13, 457-471.	2.6	128
9	Role of semaphorins in the adult nervous system. <i>Progress in Neurobiology</i> , 2003, 71, 249-267.	5.7	125
10	Semaphorin 3A Binds to the Perineuronal Nets via Chondroitin Sulfate Type E Motifs in Rodent Brains. <i>Journal of Biological Chemistry</i> , 2013, 288, 27384-27395.	3.4	120
11	Identification of candidate transcriptional modulators involved in successful regeneration after nerve injury. <i>European Journal of Neuroscience</i> , 2007, 25, 3629-3637.	2.6	117
12	The chemorepulsive axon guidance protein semaphorin3A is a constituent of perineuronal nets in the adult rodent brain. <i>Molecular and Cellular Neurosciences</i> , 2013, 56, 186-200.	2.2	108
13	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons. <i>PLoS Biology</i> , 2020, 18, e3000665.	5.6	107
14	Regulation of Semaphorin III/Collapsin-1 Gene Expression during Peripheral Nerve Regeneration. <i>Experimental Neurology</i> , 1998, 153, 313-327.	4.1	96
15	Meningeal cell-derived semaphorin 3A inhibits neurite outgrowth. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 902-912.	2.2	96
16	Expression of an Activated Integrin Promotes Long-Distance Sensory Axon Regeneration in the Spinal Cord. <i>Journal of Neuroscience</i> , 2016, 36, 7283-7297.	3.6	84
17	A comparative morphological, electrophysiological and functional analysis of axon regeneration through peripheral nerve autografts genetically modified to overexpress BDNF, CNTF, GDNF, NGF, NT3 or VEGF. <i>Experimental Neurology</i> , 2014, 261, 578-593.	4.1	83
18	Understanding the neural repair-promoting properties of olfactory ensheathing cells. <i>Experimental Neurology</i> , 2014, 261, 594-609.	4.1	83

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19	Integrins promote axonal regeneration after injury of the nervous system. <i>Biological Reviews</i> , 2018, 93, 1339-1362.	10.4	81
20	Lentiviral vectors express chondroitinase ABC in cortical projections and promote sprouting of injured corticospinal axons. <i>Journal of Neuroscience Methods</i> , 2011, 201, 228-238.	2.5	80
21	Receptor complexes for each of the Class 3 Semaphorins. <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 28.	3.7	79
22	Overexpression of ATF3 or the combination of ATF3, c-Jun, STAT3 and Smad1 promotes regeneration of the central axon branch of sensory neurons but without synergistic effects. <i>Human Molecular Genetics</i> , 2015, 24, 6788-6800.	2.9	72
23	NFIL3 and cAMP Response Element-Binding Protein Form a Transcriptional Feedforward Loop that Controls Neuronal Regeneration-Associated Gene Expression. <i>Journal of Neuroscience</i> , 2009, 29, 15542-15550.	3.6	68
24	Cerebellar plasticity and associative memories are controlled by perineuronal nets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6855-6865.	7.1	65
25	A perspective on the role of class III semaphorin signaling in central nervous system trauma. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 328.	3.7	63
26	Optimization of adeno-associated viral vector-mediated transduction of the corticospinal tract: comparison of four promoters. <i>Gene Therapy</i> , 2021, 28, 56-74.	4.5	62
27	An Extracellular Perspective on CNS Maturation: Perineuronal Nets and the Control of Plasticity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2434.	4.1	62
28	Chondroitinase gene therapy improves upper limb function following cervical contusion injury. <i>Experimental Neurology</i> , 2015, 271, 131-135.	4.1	58
29	Comparative gene expression profiling of olfactory ensheathing glia and Schwann cells indicates distinct tissue repair characteristics of olfactory ensheathing glia. <i>Glia</i> , 2008, 56, 1285-1298.	4.9	56
30	A Gene Network Perspective on Axonal Regeneration. <i>Frontiers in Molecular Neuroscience</i> , 2011, 4, 46.	2.9	56
31	Brain Endothelial Cells Control Fertility through Ovarian-Steroid-Dependent Release of Semaphorin 3A. <i>PLoS Biology</i> , 2014, 12, e1001808.	5.6	56
32	Intrinsic Determinants of Axon Regeneration. <i>Developmental Neurobiology</i> , 2018, 78, 890-897.	3.0	54
33	Semaphorins in Adult Nervous System Plasticity and Disease. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 672891.	2.5	52
34	Lentiviral-mediated Expression of Polysialic Acid in Spinal Cord and Conditioning Lesion Promote Regeneration of Sensory Axons Into Spinal Cord. <i>Molecular Therapy</i> , 2007, 15, 1796-1804.	8.2	51
35	Genome-wide gene expression and promoter binding analysis identifies NFIL3 as a repressor of C/EBP target genes in neuronal outgrowth. <i>Molecular and Cellular Neurosciences</i> , 2011, 46, 460-468.	2.2	44
36	Axonal Localization of Integrins in the CNS Is Neuronal Type and Age Dependent. <i>ENeuro</i> , 2016, 3, ENEURO.0029-16.2016.	1.9	40

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37	Spinal Cord Injury and the Neuron-Intrinsic Regeneration-Associated Gene Program. <i>NeuroMolecular Medicine</i> , 2014, 16, 799-813.	3.4	39
38	Human Neuroma Contains Increased Levels of Semaphorin 3A, Which Surrounds Nerve Fibers and Reduces Neurite Extension <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 2007, 27, 14260-14264.	3.6	37
39	Chondroitin 6-sulphate is required for neuroplasticity and memory in ageing. <i>Molecular Psychiatry</i> , 2021, 26, 5658-5668.	7.9	36
40	A Multilevel Screening Strategy Defines a Molecular Fingerprint of Proregenerative Olfactory Ensheathing Cells and Identifies SCARB2, a Protein That Improves Regenerative Sprouting of Injured Sensory Spinal Axons. <i>Journal of Neuroscience</i> , 2013, 33, 11116-11135.	3.6	32
41	Differential myofiber-type transduction preference of adeno-associated virus serotypes 6 and 9. <i>Skeletal Muscle</i> , 2015, 5, 37.	4.2	31
42	Evaluation of Five Tests for Sensitivity to Functional Deficits following Cervical or Thoracic Dorsal Column Transection in the Rat. <i>PLoS ONE</i> , 2016, 11, e0150141.	2.5	31
43	Olfactory ensheathing glia and Schwann cells exhibit a distinct interaction behavior with meningeal cells. <i>Journal of Neuroscience Research</i> , 2009, 87, 1556-1564.	2.9	30
44	A meta-analysis of microarray-based gene expression studies of olfactory bulb-derived olfactory ensheathing cells. <i>Experimental Neurology</i> , 2011, 229, 10-45.	4.1	28
45	Chondroitin sulfate proteoglycans prevent immune cell phenotypic conversion and inflammation resolution via TLR4 in rodent models of spinal cord injury. <i>Nature Communications</i> , 2022, 13, .	12.8	27
46	Repulsive Guidance Molecule a (RGMa) Induces Neuropathological and Behavioral Changes That Closely Resemble Parkinson's Disease. <i>Journal of Neuroscience</i> , 2017, 37, 9361-9379.	3.6	26
47	Inhibition of Semaphorin3A Promotes Ocular Dominance Plasticity in the Adult Rat Visual Cortex. <i>Molecular Neurobiology</i> , 2019, 56, 5987-5997.	4.0	26
48	The Dorsal Column Lesion Model of Spinal Cord Injury and Its Use in Deciphering the Neuronâ€™s Intrinsic Injury Response. <i>Developmental Neurobiology</i> , 2018, 78, 926-951.	3.0	23
49	Manipulation of gene expression in the mammalian nervous system: application in the study of neurite outgrowth and neuroregeneration-related proteins. <i>Brain Research Reviews</i> , 1998, 26, 43-71.	9.0	21
50	LLM3D: a log-linear modeling-based method to predict functional gene regulatory interactions from genome-wide expression data. <i>Nucleic Acids Research</i> , 2011, 39, 5313-5327.	14.5	19
51	Wnt Signaling through the Ror Receptor in the Nervous System. <i>Molecular Neurobiology</i> , 2014, 49, 303-315.	4.0	19
52	Chondroitinase ABC promotes plasticity of spinal reflexes following peripheral nerve injury. <i>Experimental Neurology</i> , 2012, 238, 64-78.	4.1	15
53	Gene therapy approaches to enhance regeneration of the injured peripheral nerve. <i>European Journal of Pharmacology</i> , 2013, 719, 145-152.	3.5	14
54	Expression of a Mutant SEMA3A Protein with Diminished Signalling Capacity Does Not Alter ALS-Related Motor Decline, or Confer Changes in NMJ Plasticity after BotoxA-Induced Paralysis of Male Gastrocnemius Muscle. <i>PLoS ONE</i> , 2017, 12, e0170314.	2.5	13

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55	Noninvasive Bioluminescence Imaging of Olfactory Ensheathing Glia and Schwann Cells following Transplantation into the Lesioned Rat Spinal Cord. <i>Cell Transplantation</i> , 2012, 21, 1853-1865.	2.5	11
56	Small Scale Production of Recombinant Adeno-Associated Viral Vectors for Gene Delivery to the Nervous System. <i>Methods in Molecular Biology</i> , 2018, 1715, 3-17.	0.9	11
57	Molecular target discovery for neural repair in the functional genomics era. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2012, 109, 595-616.	1.8	9
58	The Effects of Sindbis Viral Vectors on Neuronal Function. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 362.	3.7	8
59	Enhanced regeneration and reinnervation following timed GDNF gene therapy in a cervical ventral root avulsion. <i>Experimental Neurology</i> , 2019, 321, 113037.	4.1	8
60	A Role for Neuropilins in the Interaction between Schwann Cells and Meningeal Cells. <i>PLoS ONE</i> , 2014, 9, e109401.	2.5	3
61	Gene Delivery to Neurons of the Dorsal Root Ganglia Using Adeno-Associated Viral Vectors. <i>Neuromethods</i> , 2015, , 175-189.	0.3	1
62	Resilience in Alzheimer's disease: Gene expression patterns in individuals with a discrepancy between ante-mortem cognition and post-mortem pathology. <i>Alzheimer's and Dementia</i> , 2021, 17, e050310.	0.8	0