Joost Verhaagen

List of Publications by Year
in descending order

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62	3,978	109321	128289
papers	citations	35 h-index	60 g-index

70	70	70	5010
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chondroitin sulfate proteoglycans prevent immune cell phenotypic conversion and inflammation resolution via TLR4 in rodent models of spinal cord injury. Nature Communications, 2022, 13, .	12.8	27
2	Optimization of adeno-associated viral vector-mediated transduction of the corticospinal tract: comparison of four promoters. Gene Therapy, 2021, 28, 56-74.	4.5	62
3	An Extracellular Perspective on CNS Maturation: Perineuronal Nets and the Control of Plasticity. International Journal of Molecular Sciences, 2021, 22, 2434.	4.1	62
4	Semaphorins in Adult Nervous System Plasticity and Disease. Frontiers in Synaptic Neuroscience, 2021, 13, 672891.	2.5	52
5	Chondroitin 6-sulphate is required for neuroplasticity and memory in ageing. Molecular Psychiatry, 2021, 26, 5658-5668.	7.9	36
6	Resilience in Alzheimer's disease: Gene expression patterns in individuals with a discrepancy between anteâ€mortem cognition and postâ€mortem pathology. Alzheimer's and Dementia, 2021, 17, e050310.	0.8	0
7	Cerebellar plasticity and associative memories are controlled by perineuronal nets. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6855-6865.	7.1	65
8	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons. PLoS Biology, 2020, 18, e3000665.	5.6	107
9	The Effects of Sindbis Viral Vectors on Neuronal Function. Frontiers in Cellular Neuroscience, 2019, 13, 362.	3.7	8
10	Enhanced regeneration and reinnervation following timed GDNF gene therapy in a cervical ventral root avulsion. Experimental Neurology, 2019, 321, 113037.	4.1	8
11	Inhibition of Semaphorin3A Promotes Ocular Dominance Plasticity in the Adult Rat Visual Cortex. Molecular Neurobiology, 2019, 56, 5987-5997.	4.0	26
12	Integrins promote axonal regeneration after injury of the nervous system. Biological Reviews, 2018, 93, 1339-1362.	10.4	81
13	The Dorsal Column Lesion Model of Spinal Cord Injury and Its Use in Deciphering the Neuronâ€intrinsic Injury Response. Developmental Neurobiology, 2018, 78, 926-951.	3.0	23
14	Small Scale Production of Recombinant Adeno-Associated Viral Vectors for Gene Delivery to the Nervous System. Methods in Molecular Biology, 2018, 1715, 3-17.	0.9	11
15	Intrinsic Determinants of Axon Regeneration. Developmental Neurobiology, 2018, 78, 890-897.	3.0	54
16	Repulsive Guidance Molecule a (RGMa) Induces Neuropathological and Behavioral Changes That Closely Resemble Parkinson's Disease. Journal of Neuroscience, 2017, 37, 9361-9379.	3.6	26
17	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 Gastrocnemic Muscle. PLoS ONE, 2017, 12, e0170314.	2.5	13
18	Evaluation of Five Tests for Sensitivity to Functional Deficits following Cervical or Thoracic Dorsal Column Transection in the Rat. PLoS ONE, 2016, 11, e0150141.	2.5	31

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19	Expression of an Activated Integrin Promotes Long-Distance Sensory Axon Regeneration in the Spinal Cord. Journal of Neuroscience, 2016, 36, 7283-7297.	3.6	84
20	Axonal Localization of Integrins in the CNS Is Neuronal Type and Age Dependent. ENeuro, 2016, 3, ENEURO.0029-16.2016.	1.9	40
21	Differential myofiber-type transduction preference of adeno-associated virus serotypes 6 and 9. Skeletal Muscle, 2015, 5, 37.	4.2	31
22	Chondroitinase gene therapy improves upper limb function following cervical contusion injury. Experimental Neurology, 2015, 271, 131-135.	4.1	58
23	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. Human Molecular Genetics, 2015, 24, 6788-6800.	2.9	72
24	Gene Delivery to Neurons of the Dorsal Root Ganglia Using Adeno-Associated Viral Vectors. Neuromethods, 2015, , 175-189.	0.3	1
25	A Role for Neuropilins in the Interaction between Schwann Cells and Meningeal Cells. PLoS ONE, 2014, 9, e109401.	2.5	3
26	A perspective on the role of class III semaphorin signaling in central nervous system trauma. Frontiers in Cellular Neuroscience, 2014, 8, 328.	3.7	63
27	Spinal Cord Injury and the Neuron-Intrinsic Regeneration-Associated Gene Program. NeuroMolecular Medicine, 2014, 16, 799-813.	3.4	39
28	Brain Endothelial Cells Control Fertility through Ovarian-Steroidâ€“Dependent Release of Semaphorin 3A. PLoS Biology, 2014, 12, e1001808.	5.6	56
29	ALS as a distal axonopathy: molecular mechanisms affecting neuromuscular junction stability in the presymptomatic stages of the disease. Frontiers in Neuroscience, 2014, 8, 252.	2.8	240
30	Wnt Signaling through the Ror Receptor in the Nervous System. Molecular Neurobiology, 2014, 49, 303-315.	4.0	19
31	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. Experimental Neurology, 2014, 261, 578-593.	4.1	83
32	Understanding the neural repair-promoting properties of olfactory ensheathing cells. Experimental Neurology, 2014, 261, 594-609.	4.1	83
33	Gene therapy approaches to enhance regeneration of the injured peripheral nerve. European Journal of Pharmacology, 2013, 719, 145-152.	3.5	14
34	The chemorepulsive axon guidance protein semaphorin3A is a constituent of perineuronal nets in the adult rodent brain. Molecular and Cellular Neurosciences, 2013, 56, 186-200.	2.2	108
35	Semaphorin 3A Binds to the Perineuronal Nets via Chondroitin Sulfate Type E Motifs in Rodent Brains. Journal of Biological Chemistry, 2013, 288, 27384-27395.	3.4	120
36	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. Journal of Neuroscience, 2013, 33, 11116-11135.	3.6	32

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37	Noninvasive Bioluminescence Imaging of Olfactory Ensheathing Glia and Schwann Cells following Transplantation into the Lesioned Rat Spinal Cord. Cell Transplantation, 2012, 21, 1853-1865.	2.5	11
38	Chondroitinase ABC promotes plasticity of spinal reflexes following peripheral nerve injury. Experimental Neurology, 2012, 238, 64-78.	4.1	15
39	Molecular target discovery for neural repair in the functional genomics era. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2012, 109, 595-616.	1.8	9
40	Receptor complexes for each of the Class 3 Semaphorins. Frontiers in Cellular Neuroscience, 2012, 6, 28.	3.7	79
41	A Gene Network Perspective on Axonal Regeneration. Frontiers in Molecular Neuroscience, 2011, 4, 46.	2.9	56
42	Genome-wide gene expression and promoter binding analysis identifies NFIL3 as a repressor of C/EBP target genes in neuronal outgrowth. Molecular and Cellular Neurosciences, 2011, 46, 460-468.	2.2	44
43	A meta-analysis of microarray-based gene expression studies of olfactory bulb-derived olfactory ensheathing cells. Experimental Neurology, 2011, 229, 10-45.	4.1	28
44	Lentiviral vectors express chondroitinase ABC in cortical projections and promote sprouting of injured corticospinal axons. Journal of Neuroscience Methods, 2011, 201, 228-238.	2.5	80
45	LLM3D: a log-linear modeling-based method to predict functional gene regulatory interactions from genome-wide expression data. Nucleic Acids Research, 2011, 39, 5313-5327.	14.5	19
46	NFIL3 and cAMP Response Element-Binding Protein Form a Transcriptional Feedforward Loop that Controls Neuronal Regeneration-Associated Gene Expression. Journal of Neuroscience, 2009, 29, 15542-15550.	3.6	68
47	Olfactory ensheathing glia and Schwann cells exhibit a distinct interaction behavior with meningeal cells. Journal of Neuroscience Research, 2009, 87, 1556-1564.	2.9	30
48	Analysis of Gene Expression in Parkinson's Disease: Possible Involvement of Neurotrophic Support and Axon Guidance in Dopaminergic Cell Death. Brain Pathology, 2009, 19, 91-107.	4.1	159
49	Comparative gene expression profiling of olfactory ensheathing glia and Schwann cells indicates distinct tissue repair characteristics of olfactory ensheathing glia. Glia, 2008, 56, 1285-1298.	4.9	56
50	Lentiviral-mediated Expression of Polysialic Acid in Spinal Cord and Conditioning Lesion Promote Regeneration of Sensory Axons Into Spinal Cord. Molecular Therapy, 2007, 15, 1796-1804.	8.2	51
51	Human Neuroma Contains Increased Levels of Semaphorin 3A, Which Surrounds Nerve Fibers and Reduces Neurite ExtensionIn Vitro. Journal of Neuroscience, 2007, 27, 14260-14264.	3.6	37
52	Identification of candidate transcriptional modulators involved in successful regeneration after nerve injury. European Journal of Neuroscience, 2007, 25, 3629-3637.	2.6	117
53	Olfactory ensheathing glia: Their contribution to primary olfactory nervous system regeneration and their regenerative potential following transplantation into the injured spinal cord. Brain Research Reviews, 2007, 56, 236-258.	9.0	150
54	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. Molecular and Cellular Neurosciences, 2006, 32, 102-117.	2.2	154

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55	Role of semaphorins in the adult nervous system. Progress in Neurobiology, 2003, 71, 249-267.	5.7	125
56	Meningeal cell-derived semaphorin 3A inhibits neurite outgrowth. Molecular and Cellular Neurosciences, 2003, 24, 902-912.	2.2	96
57	Ex Vivo 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. Journal of Neuroscience, 2003, 23, 7045-7058.	3.6	168
58	Peripheral nerve injury fails to induce growth of lesioned ascending dorsal column axons into spinal cord scar tissue expressing the axon repellent Semaphorin3A. European Journal of Neuroscience, 2001, 13, 457-471.	2.6	128
59	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. Human Gene Therapy, 1999, 10, 1885-1891.	2.7	162
60	Manipulation of gene expression in the mammalian nervous system: application in the study of neurite outgrowth and neuroregeneration-related proteins. Brain Research Reviews, 1998, 26, 43-71.	9.0	21
61	Regulation of Semaphorin III/Collapsin-1 Gene Expression during Peripheral Nerve Regeneration. Experimental Neurology, 1998, 153, 313-327.	4.1	96
62	Evidence for a Role of the Chemorepellent Semaphorin III and Its Receptor Neuropilin-1 in the Regeneration of Primary Olfactory Axons. Journal of Neuroscience, 1998, 18, 9962-9976.	3.6	181