Hans Werner MÃ¼ller

List of Publications by Year
in descending order

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87 papers	4,633 citations	94433 37 h-index	106344 65 g-index
112 all docs	112 docs citations	112 times ranked	4711 citing authors

#	Article	IF	Citations
1	Nerve Injury, Axonal Degeneration and Neural Regeneration: Basic Insights. Brain Pathology, 1999, 9, 313-325.	4.1	474
2	The CNS lesion scar: new vistas on an old regeneration barrier. Cell and Tissue Research, 1998, 294, 1-9.	2.9	223
3	Inhibition of collagen IV deposition promotes regeneration of injured CNS axons. European Journal of Neuroscience, 1999, 11, 632-646.	2.6	153
4	Collagen Matrix in Spinal Cord Injury. Journal of Neurotrauma, 2006, 23, 422-436.	3.4	151
5	Suppression of fibrous scarring in spinal cord injury of rat promotes long-distance regeneration of corticospinal tract axons, rescue of primary motoneurons in somatosensory cortex and significant functional recovery. European Journal of Neuroscience, 2005, 22, 3047-3058.	2.6	146
6	Peripheral Myelin Protein 22 and Protein Zero: a Novel Association in Peripheral Nervous System Myelin. Journal of Neuroscience, 1999, 19, 3396-3403.	3.6	143
7	A neurotrophic factor (NTF) released from primary glial cultures supports survival and fiber outgrowth of cultured hippocampal neurons. Journal of Neuroscience Research, 1982, 8, 195-204.	2.9	137
8	Chemokines in CNS injury and repair. Cell and Tissue Research, 2012, 349, 229-248.	2.9	132
9	Experimental strategies to promote axonal regeneration after traumatic central nervous system injury. Progress in Neurobiology, 1998, 56, 119-148.	5.7	131
10	Cloning and characterization of SDF-1Î³, a novel SDF-1 chemokine transcript with developmentally regulated expression in the nervous system. European Journal of Neuroscience, 2000, 12, 1857-1866.	2.6	125
11	Overloaded Endoplasmic Reticulumâ€“Golgi Compartments, a Possible Pathomechanism of Peripheral Neuropathies Caused by Mutations of the Peripheral Myelin Protein PMP22. Journal of Neuroscience, 1998, 18, 731-740.	3.6	118
12	MicroRNAs MiR-17, MiR-20a, and MiR-106b Act in Concert to Modulate E2F Activity on Cell Cycle Arrest during Neuronal Lineage Differentiation of USSC. PLoS ONE, 2011, 6, e16138.	2.5	114
13	Macrophages in the peripheral nervous system and astroglia in the central nervous system of rat commonly express apolipoprotein E during development but differ in their response to injury. Neuroscience Letters, 1986, 72, 233-238.	2.1	109
14	Gene expression profiling reveals that peripheral nerve regeneration is a consequence of both novel injury-dependent and reactivated developmental processes. Journal of Neurochemistry, 2006, 96, 1441-1457.	3.9	107
15	Defeating inhibition of regeneration by scar and myelin components. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2012, 109, 503-522.	1.8	104
16	Significant clinical, neuropathological and behavioural recovery from acute spinal cord trauma by transplantation of a well-defined somatic stem cell from human umbilical cord blood. Brain, 2012, 135, 431-446.	7.6	95
17	Astroglia-released neurite growth-inducing activity for embryonic hippocampal neurons is associated with laminin bound in a sulfated complex and free fibronectin. Glia, 1989, 2, 177-188.	4.9	87
18	Unrestricted Somatic Stem Cells from Human Umbilical Cord Blood Can be Differentiated into Neurons with a Dopaminergic Phenotype. Stem Cells and Development, 2008, 17, 221-232.	2.1	73

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19	A reliable method to reduce collagen scar formation in the lesioned rat spinal cord. Journal of Neuroscience Methods, 2001, 110, 141-146.	2.5	71
20	Long-lasting significant functional improvement in chronic severe spinal cord injury following scar resection and polyethylene glycol implantation. Neurobiology of Disease, 2014, 67, 165-179.	4.4	71
21	Oligodendrocytes but not astrocytes express apolipoprotein E after injury of rat optic nerve. Glia, 1989, 2, 170-176.	4.9	70
22	Rho-dependent Regulation of Cell Spreading by the Tetraspan Membrane Protein Gas3/PMP22. Molecular Biology of the Cell, 1999, 10, 2441-2459.	2.1	69
23	Ammoniaâ€induced heme oxygenaseâ€1 expression in cultured rat astrocytes and rat brain in vivo. Glia, 2002, 40, 324-336.	4.9	68
24	SDF-1 stimulates neurite growth on inhibitory CNS myelin. Molecular and Cellular Neurosciences, 2009, 40, 293-300.	2.2	66
25	Pathogenesis of Charcotâ€“Marieâ€“Tooth 1A (CMT1A) neuropathy. Trends in Neurosciences, 1998, 21, 282-286.	8.6	63
26	Molecular mechanisms of cellular interactions in peripheral nerve regeneration. Current Opinion in Neurology, 2001, 14, 635-639.	3.6	63
27	Astrogliaâ€”Neuron interactions that promote long-term neuronal survival. Journal of Chemical Neuroanatomy, 1993, 6, 229-237.	2.1	52
28	Mammalian Achaete Scute Homolog 2 Is Expressed in the Adult Sciatic Nerve and Regulates the Expression of Krox24, Mob-1, CXCR4, and p57kip2 in Schwann Cells. Journal of Neuroscience, 2002, 22, 7586-7595.	3.6	50
29	Purification of a Meningeal Cell-derived Chondroitin Sulphate Proteoglycan with Neurotrophic Activity for Brain Neurons and its Identification as Biglycan. European Journal of Neuroscience, 1995, 7, 2341-2350.	2.6	48
30	â– REVIEW : Gene Expression in Nerve Regeneration. Neuroscientist, 1997, 3, 112-122.	3.5	48
31	Improved culture methods to expand schwann cells with altered growth behaviour from CMT1A patients. , 1998, 23, 89-98.		48
32	Nerve injury and regeneration: basic insights and therapeutic interventions. Current Opinion in Neurology, 1998, 11, 557-562.	3.6	48
33	Chondroitin/Dermatan Sulphate Promotes the Survival of Neurons from Rat Embryonic Neocortex. European Journal of Neuroscience, 1997, 9, 306-318.	2.6	46
34	Long-term culture and characterization of human neurofibroma-derived Schwann cells. Journal of Neuroscience Research, 2000, 61, 524-532.	2.9	46
35	Evidence for macrophageâ€mediated myelin disruption in an animal model for Charcotâ€Marieâ€Tooth neuropathy type 1A. Journal of Neuroscience Research, 2005, 81, 857-864.	2.9	46
36	Enhanced regenerative axon growth of multiple fibre populations in traumatic spinal cord injury following scarâ€suppressing treatment. European Journal of Neuroscience, 2009, 30, 1544-1553.	2.6	42

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37	Spontaneous activity and recurrent inhibition in cultured hippocampal networks. Synapse, 1993, 14, 206-213.	1.2	41
38	Cultured astrocytes express biglycan, a chondroitin/dermatan sulfate proteoglycan supporting the survival of neocortical neurons. Molecular Brain Research, 1996, 41, 65-73.	2.3	40
39	Studies on the effects of altered PMP22 expression during myelination in vitro. , 1997, 48, 31-42.		39
40	Glucoseâ€dependent insulinotropic polypeptide (GIP) and its receptor (GIPR): Cellular localization, lesionâ€affected expression, and impaired regenerative axonal growth. Journal of Neuroscience Research, 2009, 87, 1858-1870.	2.9	38
41	Ins and outs of peripheral myelin protein-22: Mapping transmembrane topology and intracellular sorting. , 1997, 49, 551-562.		37
42	Pharmacological modification of the extracellular matrix to promote regeneration of the injured brain and spinal cord. Progress in Brain Research, 2009, 175, 269-281.	1.4	37
43	Dissociated cell culture of rat cerebral cortical neurons in serum-free, conditioned media: GABA-immunopositive neurons. Developmental Brain Research, 1991, 64, 145-154.	1.7	35
44	Peripheral myelin protein 22 kDa and protein zero: domain specific trans-interactions. Molecular and Cellular Neurosciences, 2004, 27, 370-378.	2.2	35
45	Chondroitin sulfates expressed on oligodendrocyte-derived tenascin-R are involved in neural cell recognition. Functional implications during CNS development and regeneration. , 2000, 60, 21-36.		33
46	Concise Review: The Potential of Stromal Cell-Derived Factor 1 and Its Receptors to Promote Stem Cell Functions in Spinal Cord Repair. Stem Cells Translational Medicine, 2012, 1, 732-739.	3.3	33
47	Gene expression profiling reveals multiple novel intrinsic and extrinsic factors associated with axonal regeneration failure. European Journal of Neuroscience, 2004, 19, 32-42.	2.6	32
48	SDF-1/CXCL12: Its role in spinal cord injury. International Journal of Biochemistry and Cell Biology, 2012, 44, 452-456.	2.8	32
49	Characterization of Regenerative Phenotype of Unrestricted Somatic Stem Cells (USSC) from Human Umbilical Cord Blood (hUCB) by Functional Secretome Analysis. Molecular and Cellular Proteomics, 2015, 14, 2630-2643.	3.8	32
50	Clearance of Myelin Constituents and Axonal Sprouting in the Transected Postcommissural Fornix of the Adult Rat. European Journal of Neuroscience, 1995, 7, 401-411.	2.6	31
51	Identification of osmosensitive and ammonia-regulated genes in rat astrocytes by Northern blotting and differential display reverse transcriptase-polymerase chain reaction. Journal of Hepatology, 2001, 35, 358-366.	3.7	29
52	The Collagenous Wound Healing Scar in the Injured Central Nervous System Inhibits Axonal Regeneration. , 2006, 557, 177-190.		29
53	Identification of Meningeal Cell Released Neurite Promoting Activities for Embryonic Hippocampal Neurons. Journal of Neurochemistry, 1991, 56, 759-768.	3.9	28
54	Reconstruction of Transected Postcommissural Fornix in Adult Rat by Schwann Cell Suspension Grafts. Experimental Neurology, 1996, 140, 21-36.	4.1	28

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55	Expression of inherent neuronal shape characteristics after transient sensitivity to epigenetic factors. Developmental Brain Research, 1992, 68, 149-162.	1.7	27
56	Pharmacological Suppression of CNS Scarring by Deferoxamine Reduces Lesion Volume and Increases Regeneration in an In Vitro Model for Astroglial-Fibrotic Scarring and in Rat Spinal Cord Injury In Vivo. PLoS ONE, 2015, 10, e0134371.	2.5	27
57	Cyclic AMP and tumor necrosis factor-Î± regulate CXCR4 gene expression in Schwann cells. Molecular and Cellular Neurosciences, 2003, 24, 1-9.	2.2	24
58	Identification and Characterization of ZFP-57, a Novel Zinc Finger Transcription Factor in the Mammalian Peripheral Nervous System. Journal of Biological Chemistry, 2004, 279, 25653-25664.	3.4	21
59	Plasmolipin: genomic structure, chromosomal localization, protein expression pattern, and putative association with Bardet-Biedl syndrome. Mammalian Genome, 2001, 12, 933-937.	2.2	20
60	The Î±-chemokine CXCL14 is up-regulated in the sciatic nerve of a mouse model of Charcotâ€“Marieâ€“Tooth disease type 1A and alters myelin gene expression in cultured Schwann cells. Neurobiology of Disease, 2009, 33, 448-458.	4.4	20
61	Network-Like Impact of MicroRNAs on Neuronal Lineage Differentiation of Unrestricted Somatic Stem Cells from Human Cord Blood. Stem Cells and Development, 2011, 20, 1383-1394.	2.1	20
62	Developmental regulation of decorin expression in postnatal rat brain. Brain Research, 1998, 793, 328-332.	2.2	19
63	Neural ECM mimetics. Progress in Brain Research, 2014, 214, 391-413.	1.4	19
64	Dynamic Changes in Gene Expression Profiles Following Axotomy of Projection Fibres in the Mammalian CNS. Molecular and Cellular Neurosciences, 2002, 21, 421-435.	2.2	18
65	Secretome Analysis of Mesenchymal Stem Cell Factors Fostering Oligodendroglial Differentiation of Neural Stem Cells In Vivo. International Journal of Molecular Sciences, 2020, 21, 4350.	4.1	16
66	Age-Dependent Modulation of Cortical Transcriptomes in Spinal Cord Injury and Repair. PLoS ONE, 2012, 7, e49812.	2.5	16
67	Preservation and detection of lesion-induced collagenous scar in the CNS depend on the method of tissue processing. Brain Research Protocols, 2001, 7, 162-167.	1.6	14
68	Experimental Strategies to Bridge Large Tissue Gaps in the Injured Spinal Cord after Acute and Chronic Lesion. Journal of Visualized Experiments, 2016, , e53331.	0.3	13
69	Scar modulation in subacute and chronic CNS lesions: Effects on axonal regeneration. Restorative Neurology and Neuroscience, 1999, 15, 1-15.	0.7	13
70	Electrophysiological properties of rat septal region neurons during development in culture. Brain Research, 1990, 509, 85-90.	2.2	12
71	Spinal cord injury â€“ there is not just one way of treating it. F1000prime Reports, 2014, 6, 84.	5.9	11
72	AAVâ€mediated expression of BAG1 and ROCK2â€shRNA promote neuronal survival and axonal sprouting in a rat model of rubrospinal tract injury. Journal of Neurochemistry, 2015, 134, 261-275.	3.9	11

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73	Effects of Schwann cell suspension grafts on axon regeneration in subacute and chronic CNS traumatic injuries. , 1999, 28, 156-165.		10
74	Functional omics analyses reveal only minor effects of microRNAs on human somatic stem cell differentiation. Scientific Reports, 2020, 10, 3284.	3.3	9
75	Neurotrophic and Neurite Promoting Activities in Astroglial Conditioned Medium. , 1987, , 385-406.		7
76	AAV-mediated inhibition of ULK1 promotes axonal regeneration in the central nervous system in vitro and in vivo. Cell Death and Disease, 2021, 12, 213.	6.3	6
77	HSF1-deficiency affects gait coordination and cerebellar calbindin levels. Behavioural Brain Research, 2016, 310, 103-108.	2.2	5
78	Paroxysmal long-lasting depolarizations in cultured hippocampal neurons are generated by activation of NMDA and non-NMDA receptors. Synapse, 1993, 14, 214-220.	1.2	4
79	Transcription factors in nerve regeneration. Progress in Brain Research, 2001, 132, 569-585.	1.4	4
80	Heterogeneous fate choice of genetically modulated adult neural stem cells in gray and white matter of the central nervous system. Glia, 2020, 68, 393-406.	4.9	4
81	A monoclonal antibody against a neuron-specific 65-kDa protein with laminar expression in the developing cerebral cortex. Histochemistry and Cell Biology, 2002, 117, 317-325.	1.7	3
82	Low-pressure micro-mechanical re-adaptation device sustainably and effectively improves locomotor recovery from complete spinal cord injury. Communications Biology, 2018, 1, 205.	4.4	3
83	Bridging large gaps in the injured spinal cord: mechanical and biochemical tissue adaptation. Neural Regeneration Research, 2016, 11, 1572.	3.0	3
84	Assessment of Gadolinium Leakage Into Traumatic Spinal Cord Lesion Using Magnet Resonance Imaging. Spine, 2010, 35, E1604-E1609.	2.0	2
85	Schwann Cell Suspension Grafts Promote Reconstruction of Transected Postcommissural Fornix in the Adult Rat. , 1997, , 357-366.		2
86	Micromechanical adaptation as a treatment for spinal cord injury. Neural Regeneration Research, 2019, 14, 1909.	3.0	1
87	Genetik neurologischer Erbkrankheiten â€" eine Ãœbersicht. , 1999, , 321-344.		0