

Martin Maurer

List of Publications by Year in descending order

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69
papers

3,310
citations

117625

34
h-index

144013

57
g-index

72
all docs

72
docs citations

72
times ranked

4645
citing authors

#	ARTICLE	IF	CITATIONS
1	The hematopoietic factor G-CSF is a neuronal ligand that counteracts programmed cell death and drives neurogenesis. <i>Journal of Clinical Investigation</i> , 2005, 115, 2083-2098.	8.2	630
2	Tolerance Against Ischemic Neuronal Injury Can Be Induced by Volatile Anesthetics and Is Inducible NO Synthase Dependent. <i>Stroke</i> , 2002, 33, 1889-1898.	2.0	266
3	The heterogeneity of human mesenchymal stem cell preparations—Evidence from simultaneous analysis of proteomes and transcriptomes. <i>Experimental Hematology</i> , 2006, 34, 536-548.	0.4	177
4	Tumor Necrosis Factor-Like Weak Inducer of Apoptosis-Induced Neurodegeneration. <i>Journal of Neuroscience</i> , 2004, 24, 8237-8244.	3.6	130
5	Expression of vascular endothelial growth factor and its receptors in rat neural stem cells. <i>Neuroscience Letters</i> , 2003, 344, 165-168.	2.1	125
6	Expression of Hemoglobin in Rodent Neurons. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 585-595.	4.3	124
7	Alterations in Rat Brain Proteins after Desflurane Anesthesia. <i>Anesthesiology</i> , 2004, 100, 302-308.	2.5	105
8	Stem cell proteomes: A profile of human mesenchymal stem cells derived from umbilical cord blood. <i>Electrophoresis</i> , 2005, 26, 2749-2758.	2.4	92
9	Increased cerebral glucose utilization and decreased glucose transporter Glut1 during chronic hyperglycemia in rat brain. <i>Brain Research</i> , 2000, 858, 338-347.	2.2	87
10	Oxidation of Cyclohexane by High-Valent Iron Bispidine Complexes: Tetradentate versus Pentadentate Ligands. <i>Inorganic Chemistry</i> , 2009, 48, 10389-10396.	4.0	83
11	Changes in the Serum Proteome of Patients with Sepsis and Septic Shock. <i>Anesthesia and Analgesia</i> , 2006, 103, 1522-1526.	2.2	73
12	Neuroprotection by pravastatin in acute ischemic stroke in rats. <i>Brain Research Reviews</i> , 2008, 58, 48-56.	9.0	67
13	Proteomics of brain extracellular fluid (ECF) and cerebrospinal fluid (CSF). <i>Mass Spectrometry Reviews</i> , 2010, 29, 17-28.	5.4	66
14	Comprehensive Proteome Expression Profiling of Undifferentiated versus Differentiated Neural Stem Cells from Adult Rat Hippocampus. <i>Neurochemical Research</i> , 2004, 29, 1129-1144.	3.3	60
15	The proteome of human brain microdialysate. <i>Proteome Science</i> , 2003, 1, 7.	1.7	56
16	Oxidation of Cyclohexane by a High-Valent Iron Bispidine Complex: A Combined Experimental and Computational Mechanistic Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13028-13036.	2.5	56
17	Comparison of Statistical Approaches for the Analysis of Proteome Expression Data of Differentiating Neural Stem Cells. <i>Journal of Proteome Research</i> , 2005, 4, 96-100.	3.7	52
18	The proteome of neural stem cells from adult rat hippocampus. <i>Proteome Science</i> , 2003, 1, 4.	1.7	50

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19	The Effects of Sevoflurane Anesthesia on Rat Brain Proteins: A Proteomic Time-Course Analysis. <i>Anesthesia and Analgesia</i> , 2007, 104, 1129-1135.	2.2	48
20	Correlation between local monocarboxylate transporter 1 (MCT1) and glucose transporter 1 (GLUT1) densities in the adult rat brain. <i>Neuroscience Letters</i> , 2004, 355, 105-108.	2.1	44
21	Glycogen Synthase Kinase 3 β (GSK3 β) Regulates Differentiation and Proliferation in Neural Stem Cells from the Rat Subventricular Zone. <i>Journal of Proteome Research</i> , 2007, 6, 1198-1208.	3.7	44
22	Proteomic Definitions of Mesenchymal Stem Cells. <i>Stem Cells International</i> , 2011, 2011, 1-9.	2.5	44
23	Adult neural stem cells express glucose transporters GLUT1 and GLUT3 and regulate GLUT3 expression. <i>FEBS Letters</i> , 2006, 580, 4430-4434.	2.8	42
24	Acute anoxia stimulates proliferation in adult neural stem cells from the rat brain. <i>Experimental Brain Research</i> , 2008, 188, 33-43.	1.5	42
25	The functional genome of CA1 and CA3 neurons under native conditions and in response to ischemia. <i>BMC Genomics</i> , 2007, 8, 370.	2.8	41
26	Identification of Early Markers for Symptomatic Vasospasm in Human Cerebral Microdialysate after Subarachnoid Hemorrhage: Preliminary Results of a Proteome-Wide Screening. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1675-1683.	4.3	39
27	Reduced Cerebral Blood Flow but Elevated Cerebral Glucose Metabolic Rate in Erythropoietin Overexpressing Transgenic Mice with Excessive Erythrocytosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 469-476.	4.3	38
28	Isoflurane Anesthesia Elicits Protein Pattern Changes in Rat Hippocampus. <i>Journal of Neurosurgical Anesthesiology</i> , 2010, 22, 144-154.	1.2	38
29	Old Friends in New Constellations - the Hematopoietic Growth Factors G-CSF, GM-CSF, and EPO for the Treatment of Neurological Diseases. <i>Current Medicinal Chemistry</i> , 2008, 15, 1407-1411.	2.4	37
30	FXTAS, SCA10, and SCA17 in American patients with movement disorders. <i>American Journal of Medical Genetics, Part A</i> , 2005, 136A, 87-89.	1.2	36
31	A combined experimental and computational study on the sulfoxidation by high-valent iron bispidine complexes. <i>Dalton Transactions</i> , 2011, 40, 11276.	3.3	36
32	Reduction in rat phosphatidylethanolamine binding protein-1 (PEBP1) after chronic corticosterone treatment may be paralleled by cognitive impairment: A first study. <i>Stress</i> , 2008, 11, 134-147.	1.8	35
33	Spatial learning induces predominant downregulation of cytosolic proteins in the rat hippocampus. <i>Genes, Brain and Behavior</i> , 2007, 6, 128-140.	2.2	34
34	Volatile anesthetics evoke prolonged changes in the proteome of the left ventricle myocardium: defining a molecular basis of cardioprotection?. <i>Acta Anaesthesiologica Scandinavica</i> , 2006, 50, 414-427.	1.6	32
35	Alterations in Cerebral Metabolomics and Proteomic Expression during Sepsis. <i>Current Neurovascular Research</i> , 2007, 4, 280-288.	1.1	30
36	Alterations of the podocyte proteome in response to high glucose concentrations. <i>Proteomics</i> , 2009, 9, 4519-4528.	2.2	29

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37	Activation of inwardly rectifying Kir2.x potassium channels by \hat{I}^{23} -adrenoceptors is mediated via different signaling pathways with a predominant role of PKC for Kir2.1 and of PKA for Kir2.2. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2007, 375, 311-322.	3.0	26
38	Neurons and Neuronal Stem Cells Survive in Glucose-Free Lactate and in High Glucose Cell Culture Medium During Normoxia and Anoxia. <i>Neurochemical Research</i> , 2010, 35, 1635-1642.	3.3	25
39	Increased densities of monocarboxylate transporter MCT1 after chronic hyperglycemia in rat brain. <i>Brain Research</i> , 2009, 1257, 32-39.	2.2	21
40	Software Analysis of Two-Dimensional Electrophoretic Gels in Proteomic Experiments. <i>Current Bioinformatics</i> , 2006, 1, 255-262.	1.5	19
41	Transplantation of adult neural progenitor cells transfected with Vascular Endothelial Growth Factor rescues grafted cells in the rat brain. <i>International Journal of Biological Sciences</i> , 2008, 4, 1-7.	6.4	19
42	Correlation between local glucose transporter densities and local 3-O-methylglucose transport in rat brain. <i>Neuroscience Letters</i> , 2001, 310, 101-104.	2.1	18
43	Proteomics of human cerebral microdialysate: From detection of biomarkers to clinical application. <i>Proteomics - Clinical Applications</i> , 2008, 2, 437-443.	1.6	16
44	Cerebral transcriptome analysis of transgenic mice overexpressing erythropoietin. <i>Neuroscience Letters</i> , 2002, 327, 181-184.	2.1	15
45	Cloning of a novel neuronally expressed orphan G-protein-coupled receptor which is up-regulated by erythropoietin, interacts with microtubule-associated protein 1b and colocalizes with the 5-hydroxytryptamine 2a receptor. <i>Journal of Neurochemistry</i> , 2004, 91, 1007-1017.	3.9	12
46	Anticholinergic antiparkinson drug orphenadrine inhibits HERG channels: block attenuation by mutations of the pore residues Y652 or F656. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2007, 376, 275-284.	3.0	12
47	Protein expression differs between neural progenitor cells from the adult rat brain subventricular zone and olfactory bulb. <i>BMC Neuroscience</i> , 2008, 9, 7.	1.9	12
48	Comparison of Large Proteomic Datasets. <i>Current Proteomics</i> , 2005, 2, 179-189.	0.3	11
49	Brain water content, glucose transporter densities and glucose utilization after 3 days of water deprivation in the rat. <i>Neuroscience Letters</i> , 1999, 271, 13-16.	2.1	10
50	Screening the Brain: Molecular Fingerprints of Neural Stem Cells. <i>Current Stem Cell Research and Therapy</i> , 2006, 1, 65-77.	1.3	10
51	Local transport kinetics of glucose during acute and chronic nicotine infusion in rat brains. <i>Journal of Neural Transmission</i> , 1998, 105, 1017-1028.	2.8	9
52	Alterations in Rat Serum Proteome and Metabolome as Putative Disease Markers in Sepsis. <i>Journal of Trauma</i> , 2009, 66, 1065-1075.	2.3	8
53	Genomic and proteomic advances in autism research. <i>Electrophoresis</i> , 2012, 33, 3653-3658.	2.4	8
54	Simple Method for Three-Dimensional Representation of 2-DE Spots Using a Spreadsheet Program. <i>Journal of Proteome Research</i> , 2004, 3, 665-666.	3.7	7

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55	The Path to Enlightenment: Making Sense of Genomic and Proteomic Information. <i>Genomics, Proteomics and Bioinformatics</i> , 2004, 2, 123-131.	6.9	7
56	Increased densities of monocarboxylate transport protein MCT1 after chronic administration of nicotine in rat brain. <i>Neuroscience Research</i> , 2009, 64, 429-435.	1.9	4
57	Two-Dimensional Gel Electrophoresis Image Analysis via Dedicated Software Packages. <i>Methods in Molecular Biology</i> , 2016, 1384, 55-65.	0.9	4
58	Web-Based Tools for the Interpretation of Chain-Like Protein Spot Patterns on Two-Dimensional Gels. <i>Current Proteomics</i> , 2012, 9, 18-25.	0.3	3
59	Two-Dimensional Protein Analysis of Neural Stem Cells. <i>Neuromethods</i> , 2012, , 101-117.	0.3	2
60	The Application of Clinical Genetics. <i>The Application of Clinical Genetics</i> , 2012, 5, 19.	3.0	1
61	The hematopoietic factor G-CSF is a neuronal ligand that drives neurogenesis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S235-S235.	4.3	1
62	Early proteomic markers of vasospasm can be identified in cerebral microdialysates of patients with subarachnoid hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S119-S119.	4.3	0
63	Functional relevance of the Wnt signaling pathway in adult neural stem cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S223-S223.	4.3	0
64	Genomic and Proteomic Signatures of Human Mesenchymal Stem Cells.. <i>Blood</i> , 2005, 106, 2300-2300.	1.4	0
65	Lithium Promotes Adult Neural Progenitor Differentiation Via GSK3 β -Dependent Signaling Pathways. <i>The Open Enzyme Inhibition Journal</i> , 2008, 1, 5-11.	2.0	0
66	Prevention Rather Than Therapy. <i>Deutsches A&#x0308;rzteblatt International</i> , 2012, 109, 14; author reply 14.	0.9	0
67	Phosphates and Behavioral Abnormalities. <i>Deutsches A&#x0308;rzteblatt International</i> , 2012, 109, 492; author reply 493.	0.9	0
68	Cooperation Between Schools and Hospitals. <i>Deutsches A&#x0308;rzteblatt International</i> , 2016, 113, 560.	0.9	0
69	Significant Data Available. <i>Deutsches A&#x0308;rzteblatt International</i> , 2017, 114, 720.	0.9	0