

Peter Claus

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

2,073
citations

28
h-index

41
g-index

84
ext. papers

2,393
ext. citations

5.1
avg. IF

4.81
L-index

#	Paper	IF	Citations
80	In vitro and ex vivo evaluation of second-generation histone deacetylase inhibitors for the treatment of spinal muscular atrophy. <i>Journal of Neurochemistry</i> , 2006 , 98, 193-202	6	128
79	The spinal muscular atrophy disease protein SMN is linked to the Rho-kinase pathway via profilin. <i>Human Molecular Genetics</i> , 2011 , 20, 4865-78	5.6	101
78	Differential intranuclear localization of fibroblast growth factor-2 isoforms and specific interaction with the survival of motoneuron protein. <i>Journal of Biological Chemistry</i> , 2003 , 278, 479-85	5.4	90
77	In vivo expression and localization of the fibroblast growth factor system in the intact and lesioned rat peripheral nerve and spinal ganglia. <i>Journal of Comparative Neurology</i> , 2001 , 434, 342-57	3.4	84
76	CBMT-12. FOCAD LOSS IMPACTS MICROTUBULE ASSEMBLY, G2/M PROGRESSION AND PATIENT SURVIVAL IN ASTROCYTIC GLIOMAS. <i>Neuro-Oncology</i> , 2019 , 21, vi35-vi35	1	78
75	In vitro expression and regulation of ciliary neurotrophic factor and its alpha receptor subunit in neonatal rat olfactory ensheathing cells. <i>Neuroscience Letters</i> , 2001 , 306, 165-8	3.3	62
74	Fibroblast growth factor receptor-1 (FGFR1) nuclear dynamics reveal a novel mechanism in transcription control. <i>Molecular Biology of the Cell</i> , 2009 , 20, 2401-12	3.5	58
73	Conformational changes of DNA induced by binding of Chironomus high mobility group protein 1a (cHMG1a). Regions flanking an HMG1 box domain do not influence the bend angle of the DNA. <i>Journal of Biological Chemistry</i> , 1997 , 272, 19763-70	5.4	57
72	The Actin Cytoskeleton in SMA and ALS: How Does It Contribute to Motoneuron Degeneration?. <i>Neuroscientist</i> , 2018 , 24, 54-72	7.6	52
71	The spinal muscular atrophy gene product regulates neurite outgrowth: importance of the C terminus. <i>FASEB Journal</i> , 2007 , 21, 1492-502	0.9	50
70	Rat embryonic motoneurons in long-term co-culture with Schwann cells--a system to investigate motoneuron diseases on a cellular level in vitro. <i>Journal of Neuroscience Methods</i> , 2005 , 142, 275-84	3	49
69	Distinct functional interactions between actin isoforms and nonsarcomeric myosins. <i>PLoS ONE</i> , 2013 , 8, e70636	3.7	47
68	Therapeutic potential of mesenchymal stromal cells and MSC conditioned medium in Amyotrophic Lateral Sclerosis (ALS)--in vitro evidence from primary motor neuron cultures, NSC-34 cells, astrocytes and microglia. <i>PLoS ONE</i> , 2013 , 8, e72926	3.7	43
67	Complement upregulation and activation on motor neurons and neuromuscular junction in the SOD1 G93A mouse model of familial amyotrophic lateral sclerosis. <i>Journal of Neuroimmunology</i> , 2011 , 235, 104-9	3.5	43
66	Chatting with the neighbors: crosstalk between Rho-kinase (ROCK) and other signaling pathways for treatment of neurological disorders. <i>Frontiers in Neuroscience</i> , 2015 , 9, 198	5.1	42
65	Fibroblast growth factor 23 signaling in hippocampal cells: impact on neuronal morphology and synaptic density. <i>Journal of Neurochemistry</i> , 2016 , 137, 756-69	6	41
64	Cooperation of nuclear fibroblast growth factor receptor 1 and Nurr1 offers new interactive mechanism in postmitotic development of mesencephalic dopaminergic neurons. <i>Journal of Biological Chemistry</i> , 2012 , 287, 19827-40	5.4	40

63	Fibroblast growth factor-20 promotes the differentiation of Nurr1-overexpressing neural stem cells into tyrosine hydroxylase-positive neurons. <i>Neurobiology of Disease</i> , 2004 , 17, 163-70	7.5	40
62	Abnormal fatty acid metabolism is a core component of spinal muscular atrophy. <i>Annals of Clinical and Translational Neurology</i> , 2019 , 6, 1519-1532	5.3	39
61	Valproic acid promotes neurite outgrowth in PC12 cells independent from regulation of the survival of motoneuron protein. <i>Chemical Biology and Drug Design</i> , 2006 , 67, 244-7	2.9	38
60	Targeted disruption of the FGF-2 gene affects the response to peripheral nerve injury. <i>Molecular and Cellular Neurosciences</i> , 2004 , 25, 444-52	4.8	38
59	Local production of secretory IgA in the eye-associated lymphoid tissue (EALT) of the normal human ocular surface. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 2322-9		37
58	FGF-1 and FGF-2 require the cytosolic chaperone Hsp90 for translocation into the cytosol and the cell nucleus. <i>Journal of Biological Chemistry</i> , 2006 , 281, 11405-12	5.4	34
57	High mobility group proteins cHMG1a, cHMG1b, and cHMG1 are distinctly distributed in chromosomes and differentially expressed during ecdysone dependent cell differentiation. <i>Chromosoma</i> , 1997 , 105, 369-79	2.8	33
56	Neuronal Dysfunction in iPSC-Derived Medium Spiny Neurons from Chorea-Acanthocytosis Patients Is Reversed by Src Kinase Inhibition and F-Actin Stabilization. <i>Journal of Neuroscience</i> , 2016 , 36, 12027-12043	6.6	32
55	Axonopathy is associated with complex axonal transport defects in a model of multiple sclerosis. <i>Brain Pathology</i> , 2012 , 22, 454-71	6	29
54	A novel nuclear FGF Receptor-1 partnership with retinoid and Nur receptors during developmental gene programming of embryonic stem cells. <i>Journal of Cellular Biochemistry</i> , 2012 , 113, 2920-36	4.7	28
53	Expression of the fibroblast growth factor-2 isoforms and the FGF receptor 1-4 transcripts in the rat model system of Parkinson's disease. <i>Neuroscience Letters</i> , 2004 , 360, 117-20	3.3	28
52	Chromatin compaction and cell death by high molecular weight FGF-2 depend on its nuclear localization, intracrine ERK activation, and engagement of mitochondria. <i>Journal of Cellular Physiology</i> , 2007 , 213, 690-8	7	26
51	Distinctive effects of rat fibroblast growth factor-2 isoforms on PC12 and Schwann cells. <i>Growth Factors</i> , 2001 , 19, 175-91	1.6	26
50	Analysis of the fibroblast growth factor system reveals alterations in a mouse model of spinal muscular atrophy. <i>PLoS ONE</i> , 2012 , 7, e31202	3.7	25
49	Fibroblast growth factor-2(23) binds directly to the survival of motoneuron protein and is associated with small nuclear RNAs. <i>Biochemical Journal</i> , 2004 , 384, 559-65	3.8	25
48	Interventions Targeting Glucocorticoid-Inducible Kinase-like Factor 15-Branched-Chain Amino Acid Signaling Improve Disease Phenotypes in Spinal Muscular Atrophy Mice. <i>EBioMedicine</i> , 2018 , 31, 226-242	8.8	24
47	Nuclear basic fibroblast growth factor regulates triple-negative breast cancer chemo-resistance. <i>Breast Cancer Research</i> , 2015 , 17, 91	8.3	23
46	Fibroblast growth factor-2 regulates the stability of nuclear bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 12747-52	11.5	23

45	The Need for SMN-Independent Treatments of Spinal Muscular Atrophy (SMA) to Complement SMN-Enhancing Drugs. <i>Frontiers in Neurology</i> , 2020 , 11, 45	4.1	22
44	Bilateral crosstalk of rho- and extracellular-signal-regulated-kinase (ERK) pathways is confined to an unidirectional mode in spinal muscular atrophy (SMA). <i>Cellular Signalling</i> , 2014 , 26, 540-8	4.9	22
43	Expression of basic fibroblast growth factor isoforms in postmitotic sympathetic neurons: synthesis, intracellular localization and involvement in karyokinesis. <i>Neuroscience</i> , 2004 , 124, 561-72	3.9	21
42	Molecular cloning and developmental expression of rat fibroblast growth factor receptor 3. <i>Histochemistry and Cell Biology</i> , 2001 , 115, 147-55	2.4	21
41	NGF-induced cell differentiation and gene activation is mediated by integrative nuclear FGFR1 signaling (INFS). <i>PLoS ONE</i> , 2013 , 8, e68931	3.7	20
40	Structural and functional consequences of mutations within the hydrophobic cores of the HMG1-box domain of the Chironomus high-mobility-group protein 1a. <i>FEBS Journal</i> , 1997 , 243, 151-9		20
39	Up-regulation of platelet-derived growth factor by peripheral-blood leukocytes during experimental allergic encephalomyelitis. <i>Journal of Neuroscience Research</i> , 2008 , 86, 392-402	4.4	19
38	Nuclear fibroblast growth factor-2 interacts specifically with splicing factor SF3a66. <i>Biological Chemistry</i> , 2004 , 385, 1203-8	4.5	18
37	Fibroblast growth factor 2 (FGF-2) is a novel substrate for arginine methylation by PRMT5. <i>Biological Chemistry</i> , 2009 , 390, 59-65	4.5	16
36	Polysialyltransferase overexpression in Schwann cells mediates different effects during peripheral nerve regeneration. <i>Glycobiology</i> , 2012 , 22, 107-15	5.8	16
35	Sorting of the FGF receptor 1 in a human glioma cell line. <i>Histochemistry and Cell Biology</i> , 2013 , 139, 135-44	4.4	15
34	Mice lacking basic fibroblast growth factor showed faster sensory recovery. <i>Experimental Neurology</i> , 2010 , 223, 166-72	5.7	15
33	Fibroblast Growth Factor Signalling in the Diseased Nervous System. <i>Molecular Neurobiology</i> , 2021 , 58, 3884-3902	6.2	15
32	Nanodiamonds as "artificial proteins": Regulation of a cell signalling system using low nanomolar solutions of inorganic nanocrystals. <i>Biomaterials</i> , 2018 , 176, 106-121	15.6	15
31	A nuclear odyssey: fibroblast growth factor-2 (FGF-2) as a regulator of nuclear homeostasis in the nervous system. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 1651-62	10.3	14
30	Vitamin D improves endothelial barrier integrity and counteracts inflammatory effects on endothelial progenitor cells. <i>FASEB Journal</i> , 2019 , 33, 9142-9153	0.9	13
29	A novel linker histone-like protein is associated with cytoplasmic filaments in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Science</i> , 2002 , 115, 2881-2891	5.3	13
28	PPP4R2 regulates neuronal cell differentiation and survival, functionally cooperating with SMN. <i>European Journal of Cell Biology</i> , 2012 , 91, 662-74	6.1	12

27	ERK and ROCK functionally interact in a signaling network that is compensationally upregulated in Spinal Muscular Atrophy. <i>Neurobiology of Disease</i> , 2017 , 108, 352-361	7.5	12
26	Expression and regulation of Sef, a novel signaling inhibitor of receptor tyrosine kinases-mediated signaling in the nervous system. <i>Acta Histochemica</i> , 2008 , 110, 155-62	2	11
25	Metalloprotease-mediated cleavage of PlexinD1 and its sequestration to actin rods in the motoneuron disease spinal muscular atrophy (SMA). <i>Human Molecular Genetics</i> , 2017 , 26, 3946-3959	5.6	10
24	Intact interleukin-10 receptor signaling protects from hippocampal damage elicited by experimental neurotropic virus infection of SJL mice. <i>Scientific Reports</i> , 2018 , 8, 6106	4.9	10
23	Coalition of Nuclear Receptors in the Nervous System. <i>Journal of Cellular Physiology</i> , 2015 , 230, 2875-807		10
22	Renal pathology in a mouse model of severe Spinal Muscular Atrophy is associated with downregulation of Glial Cell-Line Derived Neurotrophic Factor (GDNF). <i>Human Molecular Genetics</i> , 2020 , 29, 2365-2378	5.6	9
21	Immobile survival of motoneuron (SMN) protein stored in Cajal bodies can be mobilized by protein interactions. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 2555-68	10.3	9
20	Profilin2a-phosphorylation as a regulatory mechanism for actin dynamics. <i>FASEB Journal</i> , 2020 , 34, 2147-2160	21.60	8
19	Increased innervation of forebrain targets by midbrain dopaminergic neurons in the absence of FGF-2. <i>Neuroscience</i> , 2016 , 314, 134-44	3.9	8
18	Gene expression profiles in neurological tissues during West Nile virus infection: a critical meta-analysis. <i>BMC Genomics</i> , 2018 , 19, 530	4.5	8
17	Characterization and differentiation potential of rat ventral mesencephalic neuronal progenitor cells immortalized with SV40 large T antigen. <i>Cell and Tissue Research</i> , 2010 , 340, 29-43	4.2	7
16	HSV-1 triggers paracrine fibroblast growth factor response from cortical brain cells via immediate-early protein ICP0. <i>Journal of Neuroinflammation</i> , 2019 , 16, 248	10.1	7
15	Altered bone development with impaired cartilage formation precedes neuromuscular symptoms in spinal muscular atrophy. <i>Human Molecular Genetics</i> , 2020 , 29, 2662-2673	5.6	6
14	Regulation of neuronal differentiation by proteins associated with nuclear bodies. <i>PLoS ONE</i> , 2013 , 8, e82871	3.7	5
13	The Proteome and Secretome of Cortical Brain Cells Infected With Herpes Simplex Virus. <i>Frontiers in Neurology</i> , 2020 , 11, 844	4.1	5
12	Light modulation ameliorates expression of circadian genes and disease progression in spinal muscular atrophy mice. <i>Human Molecular Genetics</i> , 2018 , 27, 3582-3597	5.6	5
11	Microtubule-associated protein 1B dysregulates microtubule dynamics and neuronal mitochondrial transport in spinal muscular atrophy. <i>Human Molecular Genetics</i> , 2021 , 29, 3935-3944	5.6	4
10	FOCAD loss impacts microtubule assembly, G2/M progression and patient survival in astrocytic gliomas. <i>Acta Neuropathologica</i> , 2020 , 139, 175-192	14.3	4

9	Muscle overexpression of Klf15 via an AAV8-Spc5-12 construct does not provide benefits in spinal muscular atrophy mice. <i>Gene Therapy</i> , 2019 , 27, 505-515	4	4
8	Impairment of the neurotrophic signaling hub B-Raf contributes to motoneuron degeneration in spinal muscular atrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
7	Profilin2 regulates actin rod assembly in neuronal cells. <i>Scientific Reports</i> , 2021 , 11, 10287	4.9	3
6	Investigations of Microtubule-associated Protein 2 Gene Expression in Spinal Muscular Atrophy. <i>Journal of Pediatric Research</i> , 2019 , 6, 148-154	1.6	2
5	High mobility group proteins cHMG 1a, cHMG 1b, and cHMGI are distinctly distributed in chromosomes and differentially expressed during ecdysone dependent cell differentiation 1997 , 105, 369		2
4	A Single Amino Acid Residue Regulates PTEN-Binding and Stability of the Spinal Muscular Atrophy Protein SMN. <i>Cells</i> , 2020 , 9,	7.9	1
3	Resolution of pathogenic R-loops rescues motor neuron degeneration in spinal muscular atrophy. <i>Brain</i> , 2020 , 143, 2-5	11.2	0
2	Protein Network Analysis Reveals a Functional Connectivity of Dysregulated Processes in ALS and SMA.. <i>Neuroscience Insights</i> , 2022 , 17, 26331055221087740	3	0
1	Pathogenese der Spinalen Muskelatrophie. <i>Klinische Neurophysiologie</i> , 2012 , 43, 203-205	0.2	