

# Peter Claus

## List of Publications by Year in descending order

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80  
papers

2,537  
citations

172457

29  
h-index

233421

45  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3244  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.9	140
2	The spinal muscular atrophy disease protein SMN is linked to the rho-kinase pathway via profilin. <i>Human Molecular Genetics</i> , 2011, 20, 4865-4878.	2.9	120
3	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, 479-485.	3.4	97
4	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, 342-357.	1.6	90
5	The Actin Cytoskeleton in SMA and ALS: How Does It Contribute to Motoneuron Degeneration?. <i>Neuroscientist</i> , 2018, 24, 54-72.	3.5	78
6	Distinct Functional Interactions between Actin Isoforms and Nonsarcomeric Myosins. <i>PLoS ONE</i> , 2013, 8, e70636.	2.5	74
7	Abnormal fatty acid metabolism is a core component of spinal muscular atrophy. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 1519-1532.	3.7	72
8	In vitro expression and regulation of ciliary neurotrophic factor and its $\beta$ receptor subunit in neonatal rat olfactory ensheathing cells. <i>Neuroscience Letters</i> , 2001, 306, 165-168.	2.1	65
9	Fibroblast Growth Factor Receptor-1 (FGFR1) Nuclear Dynamics Reveal a Novel Mechanism in Transcription Control. <i>Molecular Biology of the Cell</i> , 2009, 20, 2401-2412.	2.1	65
10	Conformational Changes of DNA Induced by Binding of Chironomus High Mobility Group Protein 1a (cHMG1a). <i>Journal of Biological Chemistry</i> , 1997, 272, 19763-19770.	3.4	61
11	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.	2.5	60
12	The spinal muscular atrophy gene product regulates neurite outgrowth: importance of the C terminus. <i>FASEB Journal</i> , 2007, 21, 1492-1502.	0.5	58
13	Fibroblast growth factor 23 signaling in hippocampal cells: impact on neuronal morphology and synaptic density. <i>Journal of Neurochemistry</i> , 2016, 137, 756-769.	3.9	58
14	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, 275-284.	2.5	57
15	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, 104-109.	2.3	53
16	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.	2.8	52
17	Fibroblast Growth Factor Signalling in the Diseased Nervous System. <i>Molecular Neurobiology</i> , 2021, 58, 3884-3902.	4.0	50
18	Local Production of Secretory IgA in the Eye-Associated Lymphoid Tissue (EALT) of the Normal Human Ocular Surface. , 2008, 49, 2322.		49

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19	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, 244-247.	3.2	45
20	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, 163-170.	4.4	44
21	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, 19827-19840.	3.4	44
22	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, 11405-11412.	3.4	42
23	Targeted disruption of the FGF-2 gene affects the response to peripheral nerve injury. <i>Molecular and Cellular Neurosciences</i> , 2004, 25, 444-452.	2.2	41
24	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, 540-548.	3.6	41
25	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.	3.6	40
26	Interventions Targeting Glucocorticoid-Induced Lipocortin-like Factor 15-Branched-Chain Amino Acid Signaling Improve Disease Phenotypes in Spinal Muscular Atrophy Mice. <i>EBioMedicine</i> , 2018, 31, 226-242.	6.1	37
27	Axonopathy Is Associated with Complex Axonal Transport Defects in a Model of Multiple Sclerosis. <i>Brain Pathology</i> , 2012, 22, 454-471.	4.1	35
28	The Need for SMN-Independent Treatments of Spinal Muscular Atrophy (SMA) to Complement SMN-Enhancing Drugs. <i>Frontiers in Neurology</i> , 2020, 11, 45.	2.4	34
29	High mobility group proteins cHMG 1a, cHMG 1b, and cHMG1 are distinctly distributed in chromosomes and differentially expressed during ecdysone dependent cell differentiation. <i>Chromosoma</i> , 1997, 105, 369-379.	2.2	33
30	Expression of the fibroblast growth factor-2 isoforms and the FGF receptor 1 transcripts in the rat model system of Parkinson's disease. <i>Neuroscience Letters</i> , 2004, 360, 117-120.	2.1	33
31	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, 690-698.	4.1	29
32	Analysis of the Fibroblast Growth Factor System Reveals Alterations in a Mouse Model of Spinal Muscular Atrophy. <i>PLoS ONE</i> , 2012, 7, e31202.	2.5	29
33	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, 2920-2936.	2.6	28
34	Distinctive Effects of Rat Fibroblast Growth Factor-2 Isoforms on PC12 and Schwann Cells. <i>Growth Factors</i> , 2001, 19, 175-191.	1.7	27
35	Nanodiamonds as "artificial proteins": Regulation of a cell signalling system using low nanomolar solutions of inorganic nanocrystals. <i>Biomaterials</i> , 2018, 176, 106-121.	11.4	27
36	Vitamin D improves endothelial barrier integrity and counteracts inflammatory effects on endothelial progenitor cells. <i>FASEB Journal</i> , 2019, 33, 9142-9153.	0.5	27

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37	Fibroblast growth factor-223 binds directly to the survival of motoneuron protein and is associated with small nuclear RNAs. <i>Biochemical Journal</i> , 2004, 384, 559-565.	3.7	26
38	Nuclear basic fibroblast growth factor regulates triple-negative breast cancer chemo-resistance. <i>Breast Cancer Research</i> , 2015, 17, 91.	5.0	26
39	Molecular cloning and developmental expression of rat fibroblast growth factor receptor <sup>3</sup> . <i>Histochemistry and Cell Biology</i> , 2001, 115, 147-155.	1.7	24
40	Fibroblast growth factor <sup>2</sup> regulates the stability of nuclear bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12747-12752.	7.1	24
41	Up <sup>2</sup> regulation of platelet <sup>2</sup> derived growth factor by peripheral <sup>2</sup> blood leukocytes during experimental allergic encephalomyelitis. <i>Journal of Neuroscience Research</i> , 2008, 86, 392-402.	2.9	23
42	Expression of basic fibroblast growth factor isoforms in postmitotic sympathetic neurons: synthesis, intracellular localization and involvement in karyokinesis. <i>Neuroscience</i> , 2004, 124, 561-572.	2.3	22
43	NGF-Induced Cell Differentiation and Gene Activation Is Mediated by Integrative Nuclear FGFR1 Signaling (INFS). <i>PLoS ONE</i> , 2013, 8, e68931.	2.5	22
44	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, 151-159.	0.2	20
45	Fibroblast growth factor 2 (FGF-2) is a novel substrate for arginine methylation by PRMT5. <i>Biological Chemistry</i> , 2009, 390, 59-65.	2.5	20
46	Altered bone development with impaired cartilage formation precedes neuromuscular symptoms in spinal muscular atrophy. <i>Human Molecular Genetics</i> , 2020, 29, 2662-2673.	2.9	20
47	PPP4R2 regulates neuronal cell differentiation and survival, functionally cooperating with SMN. <i>European Journal of Cell Biology</i> , 2012, 91, 662-674.	3.6	19
48	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.	4.4	19
49	Nuclear fibroblast growth factor-2 interacts specifically with splicing factor SF3a66. <i>Biological Chemistry</i> , 2004, 385, 1203-1208.	2.5	18
50	Polysialyltransferase overexpression in Schwann cells mediates different effects during peripheral nerve regeneration. <i>Glycobiology</i> , 2012, 22, 107-115.	2.5	17
51	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, 1651-1662.	5.4	17
52	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.	2.9	17
53	Mice lacking basic fibroblast growth factor showed faster sensory recovery. <i>Experimental Neurology</i> , 2010, 223, 166-172.	4.1	16
54	Sorting of the FGF receptor 1 in a human glioma cell line. <i>Histochemistry and Cell Biology</i> , 2013, 139, 135-148.	1.7	16

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55	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.	7.2	16
56	FOCAD loss impacts microtubule assembly, G2/M progression and patient survival in astrocytic gliomas. <i>Acta Neuropathologica</i> , 2020, 139, 175-192.	7.7	15
57	Profilin2â€phosphorylation as a regulatory mechanism for actin dynamics. <i>FASEB Journal</i> , 2020, 34, 2147-2160.	0.5	14
58	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.	2.0	14
59	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.	3.3	13
60	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.	2.9	13
61	Microtubule-associated protein 1B dysregulates microtubule dynamics and neuronal mitochondrial transport in spinal muscular atrophy. <i>Human Molecular Genetics</i> , 2021, 29, 3935-3944.	2.9	13
62	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, 155-162.	1.8	12
63	Coalition of Nuclear Receptors in the Nervous System. <i>Journal of Cellular Physiology</i> , 2015, 230, 2875-2880.	4.1	11
64	Resolution of pathogenic R-loops rescues motor neuron degeneration in spinal muscular atrophy. <i>Brain</i> , 2020, 143, 2-5.	7.6	11
65	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, e2007785118.	7.1	11
66	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.	2.9	10
67	Light modulation ameliorates expression of circadian genes and disease progression in spinal muscular atrophy mice. <i>Human Molecular Genetics</i> , 2018, 27, 3582-3597.	2.9	10
68	Gene expression profiles in neurological tissues during West Nile virus infection: a critical meta-analysis. <i>BMC Genomics</i> , 2018, 19, 530.	2.8	10
69	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, 2555-2568.	5.4	9
70	Increased innervation of forebrain targets by midbrain dopaminergic neurons in the absence of FGF-2. <i>Neuroscience</i> , 2016, 314, 134-144.	2.3	9
71	The Proteome and Secretome of Cortical Brain Cells Infected With Herpes Simplex Virus. <i>Frontiers in Neurology</i> , 2020, 11, 844.	2.4	7
72	Profilin2 regulates actin rod assembly in neuronal cells. <i>Scientific Reports</i> , 2021, 11, 10287.	3.3	7

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73	Regulation of Neuronal Differentiation by Proteins Associated with Nuclear Bodies. PLoS ONE, 2013, 8, e82871.	2.5	6
74	IRE1-Mediated Unfolded Protein Response Promotes the Replication of Tick-Borne Flaviviruses in a Virus and Cell-Type Dependent Manner. Viruses, 2021, 13, 2164.	3.3	6
75	Muscle overexpression of Klf15 via an AAV8-Spc5-12 construct does not provide benefits in spinal muscular atrophy mice. Gene Therapy, 2020, 27, 505-515.	4.5	5
76	A Single Amino Acid Residue Regulates PTEN-Binding and Stability of the Spinal Muscular Atrophy Protein SMN. Cells, 2020, 9, 2405.	4.1	4
77	Protein Network Analysis Reveals a Functional Connectivity of Dysregulated Processes in ALS and SMA. Neuroscience Insights, 2022, 17, 263310552210877.	1.6	4
78	High mobility group proteins cHMG1a, cHMG1b, and cHMG1 are distinctly distributed in chromosomes and differentially expressed during ecdysone dependent cell differentiation. Chromosoma, 1997, 105, 369-379.	2.2	3
79	Investigations of Microtubule-associated Protein 2 Gene Expression in Spinal Muscular Atrophy. Journal of Pediatric Research, 2019, 6, 148-154.	0.2	3
80	CBMT-12. FOCAD LOSS IMPACTS MICROTUBULE ASSEMBLY, G2/M PROGRESSION AND PATIENT SURVIVAL IN ASTROCYTIC GLIOMAS. Neuro-Oncology, 2019, 21, vi35-vi35.	1.2	0