Christian Horst R Wetzel

List of Publications by Year
in descending order

76 papers	4,389 citations	136740 32 h-index	110170 64 g-index
83 all docs	83 docs citations	83 times ranked	5179 citing authors

#	Article	IF	Citations
1	Identification of a Testicular Odorant Receptor Mediating Human Sperm Chemotaxis. Science, 2003, 299, 2054-2058.	6.0	711
2	Progesterone receptor-mediated effects of neuroactive steroids. Neuron, 1993, 11, 523-530.	3.8	293
3	Transient Receptor Potential Channel A1 Is Directly Gated by Calcium Ions. Journal of Biological Chemistry, 2007, 282, 13180-13189.	1.6	274
4	Specificity and Sensitivity of a Human Olfactory Receptor Functionally Expressed in Human Embryonic Kidney 293 Cells andXenopus LaevisOocytes. Journal of Neuroscience, 1999, 19, 7426-7433.	1.7	268
5	Functional expression and characterization of a Drosophila odorant receptor in a heterologous cell system. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 9377-9380.	3.3	174
6	Functional Antagonism of Gonadal Steroids at the 5-Hydroxytryptamine Type 3 Receptor. Molecular Endocrinology, 1998, 12, 1441-1451.	3.7	121
7	Primary Hippocampal Neurons, Which Lack Four Crucial Extracellular Matrix Molecules, Display Abnormalities of Synaptic Structure and Function and Severe Deficits in Perineuronal Net Formation. Journal of Neuroscience, 2013, 33, 7742-7755.	1.7	114
8	Chondroitin sulfate proteoglycans regulate astrocyteâ€dependent synaptogenesis and modulate synaptic activity in primary embryonic hippocampal neurons. European Journal of Neuroscience, 2011, 33, 2187-2202.	1.2	112
9	3-Phosphoinositides Modulate Cyclic Nucleotide Signaling in Olfactory Receptor Neurons. Neuron, 2002, 33, 731-739.	3.8	109
10	Bestrophin 1 is indispensable for volume regulation in human retinal pigment epithelium cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2630-9.	3.3	108
11	Astringency Is a Trigeminal Sensation That Involves the Activation of G Protein-Coupled Signaling by Phenolic Compounds. Chemical Senses, 2014, 39, 471-487.	1.1	105
12	Molecular Cloning, Functional Expression, and Pharmacological Characterization of 5-Hydroxytryptamine3 Receptor cDNA and Its Splice Variants from Guinea Pig. Molecular Pharmacology, 1998, 53, 202-212.	1.0	98
13	The Role of Chemokines in the Pathophysiology of Major Depressive Disorder. International Journal of Molecular Sciences, 2019, 20, 2283.	1.8	94
14	TSPO PET for glioma imaging using the novel ligand 18F-GE-180: first results in patients with glioblastoma. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 2230-2238.	3.3	91
15	Deep Sequencing of the Murine Olfactory Receptor Neuron Transcriptome. PLoS ONE, 2015, 10, e0113170.	1.1	74
16	Loss of CNGB1 Protein Leads to Olfactory Dysfunction and Subciliary Cyclic Nucleotide-gated Channel Trapping. Journal of Biological Chemistry, 2006, 281, 35156-35166.	1.6	73
17	In-Depth Characterisation of Retinal Pigment Epithelium (RPE) Cells Derived from Human Induced Pluripotent Stem Cells (hiPSC). NeuroMolecular Medicine, 2014, 16, 551-564.	1.8	67
18	Arachidonic Acid Plays a Role in Rat Vomeronasal Signal Transduction. Journal of Neuroscience, 2002, 22, 8429-8437.	1.7	66

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19	Extracellular Citrate Affects Critical Elements of Cancer Cell Metabolism and Supports Cancer Development In Vivo. Cancer Research, 2018, 78, 2513-2523.	0.4	59
20	Differential effects of TSPO ligands on mitochondrial function in mouse microglia cells. Psychoneuroendocrinology, 2019, 106, 65-76.	1.3	57
21	Modulation of the Olfactory CNG Channel by Ptdlns(3,4,5)P3. Journal of Membrane Biology, 2004, 201, 51-57.	1.0	56
22	Microglial Pro-Inflammatory and Anti-Inflammatory Phenotypes Are Modulated by Translocator Protein Activation. International Journal of Molecular Sciences, 2019, 20, 4467.	1.8	54
23	A Novel Chloride Channel in Drosophila melanogaster Is Inhibited by Protons. Journal of Biological Chemistry, 2005, 280, 16254-16262.	1.6	52
24	Comparison of 18F-GE-180 and dynamic 18F-FET PET in high grade glioma: a double-tracer pilot study. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 580-590.	3.3	52
25	Pirt functions as an endogenous regulator of TRPM8. Nature Communications, 2013, 4, 2179.	5.8	49
26	Enhancing Neurosteroid Synthesis â€“ Relationship to the Pharmacology of Translocator Protein (18â€‰kDa) (TSPO) Ligands and Benzodiazepines. Pharmacopsychiatry, 2015, 48, 72-77.	1.7	49
27	CRISPR-Cas9 Mediated TSPO Gene Knockout alters Respiration and Cellular Metabolism in Human Primary Microglia Cells. International Journal of Molecular Sciences, 2019, 20, 3359.	1.8	45
28	Chemosensory properties of murine nasal and cutaneous trigeminal neurons identified by viral tracing. BMC Neuroscience, 2006, 7, 46.	0.8	40
29	Extracellular Citrate in Health and Disease. Current Molecular Medicine, 2015, 15, 884-891.	0.6	40
30	The Role of Translocator Protein TSPO in Hallmarks of Glioblastoma. Cancers, 2020, 12, 2973.	1.7	39
31	Subunit-specific P2X-receptor expression defines chemosensory properties of trigeminal neurons. European Journal of Neuroscience, 2004, 19, 2497-2510.	1.2	37
32	In Vivo Assessment of Neuroinflammation in <scp>4â€Repeat</scp> Tauopathies. Movement Disorders, 2021, 36, 883-894.	2.2	37
33	The metabolite 5â€²-methylthioadenosine signals through the adenosine receptor A2B in melanoma. European Journal of Cancer, 2014, 50, 2714-2724.	1.3	36
34	Transient Receptor Potential Channels Encode Volatile Chemicals Sensed by Rat Trigeminal Ganglion Neurons. PLoS ONE, 2013, 8, e77998.	1.1	33
35	BEST1 protein stability and degradation pathways differ between autosomal dominant Best disease and autosomal recessive bestrophinopathy accounting for the distinct retinal phenotypes. Human Molecular Genetics, 2018, 27, 1630-1641.	1.4	32
36	Phosphorylation of voltage-gated ion channels in rat olfactory receptor neurons. European Journal of Neuroscience, 2001, 14, 1056-1064.	1.2	31

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37	The TRPM8 ion channel comprises direct Gq protein-activating capacity. Pflugers Archiv European Journal of Physiology, 2012, 463, 779-797.	1.3	29
38	Major Depressive Disorder is Associated with Impaired Mitochondrial Function in Skin Fibroblasts. Cells, 2020, 9, 884.	1.8	28
39	TRPV1 function is modulated by Cdk5-mediated phosphorylation: insights into the molecular mechanism of nociception. Scientific Reports, 2016, 6, 22007.	1.6	27
40	Functional Antagonistic Properties of Clozapine at the 5-HT3Receptor. Biochemical and Biophysical Research Communications, 1996, 225, 957-960.	1.0	26
41	Odorant-stimulated phosphoinositide signaling in mammalian olfactory receptor neurons. Cellular Signalling, 2010, 22, 150-157.	1.7	26
42	Trigeminal Ganglion Neurons of Mice Show Intracellular Chloride Accumulation and Chloride-Dependent Amplification of Capsaicin-Induced Responses. PLoS ONE, 2012, 7, e48005.	1.1	26
43	The Translocator Protein 18 kDa (TSPO) and Its Role in Mitochondrial Biology and Psychiatric Disorders. Mini-Reviews in Medicinal Chemistry, 2015, 15, 366-372.	1.1	25
44	Direct activation of transient receptor potential V1 by nickel ions. Pflugers Archiv European Journal of Physiology, 2010, 459, 737-750.	1.3	24
45	The cytokine ILâ€17A as a marker of treatment resistance in major depressive disorder?. European Journal of Neuroscience, 2021, 53, 172-182.	1.2	24
46	Cancer-associated cells release citrate to support tumour metastatic progression. Life Science Alliance, 2021, 4, e202000903.	1.3	21
47	Odorant-Dependent Generation of Nitric Oxide in Mammalian Olfactory Sensory Neurons. PLoS ONE, 2009, 4, e5499.	1.1	21
48	Translocator protein (18kDa) TSPO: a new diagnostic or therapeutic target for stress-related disorders?. Molecular Psychiatry, 2022, 27, 2918-2926.	4.1	21
49	Allopregnanolone Acts as an Inhibitory Modulator on Î±1- and Î±6-Containing GABAAReceptors. Biochemical and Biophysical Research Communications, 1996, 219, 531-536.	1.0	20
50	Flunitrazepam Has an Inverse Agonistic Effect on Recombinant Î±6Î²2Î³2-GABAAReceptors via a Flunitrazepam-binding Site. Journal of Biological Chemistry, 1997, 272, 11723-11727.	1.6	20
51	Effects of genetic variants in the TSPO gene on protein structure and stability. PLoS ONE, 2018, 13, e0195627.	1.1	19
52	Characterization of recombinant and native Ih-channels from Apis mellifera. Insect Biochemistry and Molecular Biology, 2003, 33, 1123-1134.	1.2	18
53	Variants of the Drosophila melanogaster Ih-channel are generated by different splicing. Insect Biochemistry and Molecular Biology, 2005, 35, 505-514.	1.2	18
54	A Single Amino-Acid in the TM1 Domain Is an Important Determinant of the Desensitization Kinetics of Recombinant Human and Guinea Pig Î±-Homomeric 5-Hydroxytryptamine Type 3 Receptors. Molecular Pharmacology, 2001, 59, 844-851.	1.0	17

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55	Macrophage-Derived Chemokine: A Putative Marker of Pharmacological Therapy Response in Major Depression?. NeuroImmunoModulation, 2017, 24, 106-112.	0.9	17
56	CAMK1D Triggers Immune Resistance of Human Tumor Cells Refractory to Antiâ€“PD-L1 Treatment. Cancer Immunology Research, 2020, 8, 1163-1179.	1.6	17
57	Structure-function relationships of the disease-linked A218T oxytocin receptor variant. Molecular Psychiatry, 2022, 27, 907-917.	4.1	17
58	Molecular and functional characterization of an I_hâ€channel from lobster olfactory receptor neurons. European Journal of Neuroscience, 2005, 21, 1635-1647.	1.2	16
59	De novo Neurosteroidogenesis in Human Microglia: Involvement of the 18 kDa Translocator Protein. International Journal of Molecular Sciences, 2021, 22, 3115.	1.8	15
60	Bidirectional effects of the neuroactive steroid tetrahydrodeoxycorticosterone on GABA-activated Clâ¯ currents in cultured rat hypothalamic neurons. British Journal of Pharmacology, 1999, 127, 863-868.	2.7	14
61	Myocyte Enhancer Factor 2A (MEF2A) Defines Oxytocin-Induced Morphological Effects and Regulates Mitochondrial Function in Neurons. International Journal of Molecular Sciences, 2020, 21, 2200.	1.8	14
62	Association of Chemokine (C-C Motif) Receptor 5 and Ligand 5 with Recovery from Major Depressive Disorder and Related Neurocognitive Impairment. NeuroImmunoModulation, 2020, 27, 152-162.	0.9	13
63	Differential Spatial Distribution of TSPO or Amino Acid PET Signal and MRI Contrast Enhancement in Gliomas. Cancers, 2022, 14, 53.	1.7	12
64	Translocator Protein (TSPO) Expression in Platelets of Depressed Patients Decreases during Antidepressant Therapy. Pharmacopsychiatry, 2016, 49, 204-209.	1.7	11
65	Impact of TSPO Receptor Polymorphism on [18F]GE-180 Binding in Healthy Brain and Pseudo-Reference Regions of Neurooncological and Neurodegenerative Disorders. Life, 2021, 11, 484.	1.1	11
66	Anterograde transsynaptic tracing in the murine somatosensory system using Pseudorabies virus (PrV): A â€œlive-cellâ€•tracing tool for analysis of identified neurons in vitro. Journal of NeuroVirology, 2007, 13, 579-585.	1.0	10
67	Reliable quantification of 18F-GE-180 PET neuroinflammation studies using an individually scaled population-based input function or late tissue-to-blood ratio. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2887-2900.	3.3	10
68	Functional characterization oflh-channel splice variants fromApis mellifera. FEBS Letters, 2004, 575, 99-104.	1.3	9
69	Cellular Mechanisms of Olfactory Signal Transduction. Chemical Senses, 2005, 30, i321-i322.	1.1	8
70	Neuronal pathways of viral invasion in mice after intranasal inoculation of pseudorabies virus PrV-9112C2 expressing bovine herpesvirus 1 glycoprotein B. Journal of NeuroVirology, 2006, 12, 60-64.	1.0	6
71	Dissociation of endocrine responses to the Trier Social Stress Test in Virtual Reality (VR-TSST) by the benzodiazepine alprazolam and the translocator protein 18ÂkDa (TSPO) ligand etifoxine. Psychoneuroendocrinology, 2021, 124, 105100.	1.3	5
72	Induced neural progenitor cells and iPS-neurons from major depressive disorder patients show altered bioenergetics and electrophysiological properties. Molecular Psychiatry, 0, , .	4.1	5

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73	Prediction of Functional Consequences of Missense Mutations in ANO4 Gene. International Journal of Molecular Sciences, 2021, 22, 2732.	1.8	3
74	In vivo monitoring of chemically evoked activity patterns in the rat trigeminal ganglion. Frontiers in Systems Neuroscience, 2013, 7, 64.	1.2	2
75	Reduced microglia activity in patients with long-term immunosuppressive therapy after liver transplantation. European Journal of Nuclear Medicine and Molecular Imaging, 2021, , 1.	3.3	2
76	Impact of Partial Volume Correction on [18F]GE-180 PET Quantification in Subcortical Brain Regions of Patients with Corticobasal Syndrome. Brain Sciences, 2022, 12, 204.	1.1	2