

Herbert Zimmermann

List of Publications by Year in Descending Order

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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.

65
papers

6,465
citations

35
h-index

70
g-index

70
ext. papers

7,020
ext. citations

5.3
avg. IF

6.36
L-index

#	Paper	IF	Citations
65	History of ectonucleotidases and their role in purinergic signaling. <i>Biochemical Pharmacology</i> , 2021 , 187, 114322	6	17
64	Ectonucleoside triphosphate diphosphohydrolases and ecto-5'Nucleotidase in purinergic signaling: how the field developed and where we are now. <i>Purinergic Signalling</i> , 2021 , 17, 117-125	3.8	19
63	Maria Teresa Miras Portugal (1948-2021): in memoriam. <i>Purinergic Signalling</i> , 2021 , 17, 515-517	3.8	
62	Comments on Cui Q-Q et al: "Hippocampal CD 39/ENTPD 1 promotes mouse depression-like behavior". <i>EMBO Reports</i> , 2020 , 21, e50737	6.5	1
61	2-Substituted β -Methylene-ADP Derivatives: Potent Competitive Ecto-5'Nucleotidase (CD73) Inhibitors with Variable Binding Modes. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 2941-2957	8.3	26
60	In Memoriam Geoffrey Burnstock: Creator of Purinergic Signaling. <i>Function</i> , 2020 , 1,	6.1	15
59	Fluorescent Probes for Ecto-5'Nucleotidase (CD73). <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 2253-2260.	4.3	6
58	Identification of adenine-N9-(methoxy)ethyl-bisphosphonate as NPP1 inhibitor attenuates NPPase activity in human osteoarthritic chondrocytes. <i>Purinergic Signalling</i> , 2019 , 15, 247-263	3.8	3
57	Structure-Activity Relationship of Purine and Pyrimidine Nucleotides as Ecto-5'Nucleotidase (CD73) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 3677-3695	8.3	33
56	X-Ray Co-Crystal Structure Guides the Way to Subnanomolar Competitive Ecto-5'-Nucleotidase (CD73) Inhibitors for Cancer Immunotherapy. <i>Advanced Therapeutics</i> , 2019 , 2, 1900075	4.9	22
55	Activation of Adenylyl Cyclase Causes Stimulation of Adenosine Receptors. <i>Cellular Physiology and Biochemistry</i> , 2018 , 45, 2516-2528	3.9	14
54	Disruption of the Microglial ADP Receptor P2Y Enhances Adult Hippocampal Neurogenesis. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 134	6.1	21
53	Victor P. Whittaker: The Discovery of the Synaptosome and Its Implications. <i>Neuromethods</i> , 2018 , 9-26	0.4	1
52	Victor P. Whittaker (1919-2016). <i>Journal of Neurochemistry</i> , 2016 , 139, 333-335	6	4
51	Melatonin receptor deficiency decreases and temporally shifts ecto-5'Nucleotidase mRNA levels in mouse prosencephalon. <i>Cell and Tissue Research</i> , 2016 , 365, 147-56	4.2	4
50	Extracellular ATP and other nucleotides-ubiquitous triggers of intercellular messenger release. <i>Purinergic Signalling</i> , 2016 , 12, 25-57	3.8	57
49	β -Methylene-ADP (AOPCP) Derivatives and Analogues: Development of Potent and Selective ecto-5'Nucleotidase (CD73) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 6248-63	8.3	78

48	NTPDase2 and the P2Y1 receptor are not required for mammalian eye formation. <i>Purinergic Signalling</i> , 2015 , 11, 155-60	3.8	10
47	Tissue-Nonspecific Alkaline Phosphatase in the Developing Brain and in Adult Neurogenesis. <i>Sub-Cellular Biochemistry</i> , 2015 , 76, 61-84	5.5	8
46	Polyoxometalates--potent and selective ecto-nucleotidase inhibitors. <i>Biochemical Pharmacology</i> , 2015 , 93, 171-81	6	89
45	Expression of ectonucleotidases in the prosencephalon of melatonin-proficient C3H and melatonin-deficient C57Bl mice: spatial distribution and time-dependent changes. <i>Cell and Tissue Research</i> , 2015 , 362, 163-76	4.2	8
44	Tissue-nonspecific Alkaline Phosphatase Regulates Purinergic Transmission in the Central Nervous System During Development and Disease. <i>Computational and Structural Biotechnology Journal</i> , 2015 , 13, 95-100	6.8	39
43	NTPDase2 and purinergic signaling control progenitor cell proliferation in neurogenic niches of the adult mouse brain. <i>Stem Cells</i> , 2015 , 33, 253-64	5.8	39
42	A new, sensitive ecto-5Tnucleotidase assay for compound screening. <i>Analytical Biochemistry</i> , 2014 , 446, 53-8	3.1	28
41	P2X7 receptors at adult neural progenitor cells of the mouse subventricular zone. <i>Neuropharmacology</i> , 2013 , 73, 122-37	5.5	46
40	Cellular function and molecular structure of ecto-nucleotidases. <i>Purinergic Signalling</i> , 2012 , 8, 437-502	3.8	672
39	The medial habenula contains a specific nonstellate subtype of astrocyte expressing the ectonucleotidase NTPDase2. <i>Glia</i> , 2012 , 60, 1860-70	9	13
38	Purinergic signaling in neural development. <i>Seminars in Cell and Developmental Biology</i> , 2011 , 22, 194-204	4.5	63
37	Knockdown of tissue nonspecific alkaline phosphatase impairs neural stem cell proliferation and differentiation. <i>Neuroscience Letters</i> , 2010 , 485, 208-11	3.3	50
36	Nucleotides affect neurogenesis and dopaminergic differentiation of mouse fetal midbrain-derived neural precursor cells. <i>Purinergic Signalling</i> , 2010 , 6, 417-28	3.8	25
35	Coordinate pathways for nucleotide and EGF signaling in cultured adult neural progenitor cells. <i>Journal of Cell Science</i> , 2009 , 122, 2524-33	5.3	59
34	Prostatic acid phosphatase, a neglected ectonucleotidase. <i>Purinergic Signalling</i> , 2009 , 5, 273-5	3.8	24
33	Nucleoside-5Tmonophosphates as prodrugs of adenosine A2A receptor agonists activated by ecto-5Tnucleotidase. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 7669-77	8.3	56
32	Purinergic signalling in the nervous system: an overview. <i>Trends in Neurosciences</i> , 2009 , 32, 19-29	13.3	630
31	Trophic functions of nucleotides in the central nervous system. <i>Trends in Neurosciences</i> , 2009 , 32, 189-98	13.3	94

30	ATP and acetylcholine, equal brethren. <i>Neurochemistry International</i> , 2008 , 52, 634-48	4.4	64
29	Purinergic receptor activation inhibits osmotic glial cell swelling in the diabetic rat retina. <i>Experimental Eye Research</i> , 2008 , 87, 385-93	3.7	37
28	Ectonucleotidases in the Nervous System. <i>Novartis Foundation Symposium</i> , 2008 , 113-130		111
27	Distribution of ectonucleotidases in the rodent brain revisited. <i>Cell and Tissue Research</i> , 2008 , 334, 199-217	4.7	121
26	Ectonucleotidases in Müller glial cells of the rodent retina: Involvement in inhibition of osmotic cell swelling. <i>Purinergic Signalling</i> , 2007 , 3, 423-33	3.8	40
25	Polyoxometalates--a new class of potent ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 5943-7	2.9	151
24	Extracellular nucleotide signaling in adult neural stem cells: synergism with growth factor-mediated cellular proliferation. <i>Development (Cambridge)</i> , 2006 , 133, 675-84	6.6	174
23	Uracil nucleotides stimulate human neural precursor cell proliferation and dopaminergic differentiation: involvement of MEK/ERK signalling. <i>Journal of Neurochemistry</i> , 2006 , 99, 913-23	6	62
22	The E-NTPDase family of ectonucleotidases: Structure function relationships and pathophysiological significance. <i>Purinergic Signalling</i> , 2006 , 2, 409-30	3.8	680
21	Nucleotide signaling in nervous system development. <i>Pflugers Archiv European Journal of Physiology</i> , 2006 , 452, 573-88	4.6	133
20	Functional expression of the ecto-ATPase NTPDase2 and of nucleotide receptors by neuronal progenitor cells in the adult murine hippocampus. <i>Journal of Neuroscience Research</i> , 2005 , 80, 600-10	4.4	76
19	Targeted disruption of cd73/ecto-5'Nucleotidase alters thromboregulation and augments vascular inflammatory response. <i>Circulation Research</i> , 2004 , 95, 814-21	15.7	203
18	Association of the ecto-ATPase NTPDase2 with glial cells of the peripheral nervous system. <i>Glia</i> , 2004 , 45, 124-32	9	85
17	ATP inhibits NMDA receptors after heterologous expression and in cultured hippocampal neurons and attenuates NMDA-mediated neurotoxicity. <i>Journal of Neuroscience</i> , 2003 , 23, 4996-5003	6.6	32
16	Determination of native oligomeric state and substrate specificity of rat NTPDase1 and NTPDase2 after heterologous expression in <i>Xenopus</i> oocytes. <i>FEBS Journal</i> , 2003 , 270, 1802-9		34
15	Hydrolysis of diadenosine polyphosphates by nucleotide pyrophosphatases/phosphodiesterases. <i>FEBS Journal</i> , 2003 , 270, 2971-8		68
14	Expression of the ecto-ATPase NTPDase2 in the germinal zones of the developing and adult rat brain. <i>European Journal of Neuroscience</i> , 2003 , 17, 1355-64	3.5	137
13	Ectonucleotidases: Some recent developments and a note on nomenclature. <i>Drug Development Research</i> , 2001 , 52, 44-56	5.1	331

12	Sequencing, functional expression and characterization of rat NTPDase6, a nucleoside diphosphatase and novel member of the ecto-nucleoside triphosphate diphosphohydrolase family. <i>Biochemical Journal</i> , 2000 , 351, 639	3.8	22
11	Sequencing, functional expression and characterization of rat NTPDase6, a nucleoside diphosphatase and novel member of the ecto-nucleoside triphosphate diphosphohydrolase family. <i>Biochemical Journal</i> , 2000 , 351, 639-647	3.8	53
10	Assignment of ecto-nucleoside triphosphate diphosphohydrolase-1/cd39 expression to microglia and vasculature of the brain. <i>European Journal of Neuroscience</i> , 2000 , 12, 4357-4366	3.5	9
9	Extracellular metabolism of ATP and other nucleotides. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2000 , 362, 299-309	3.4	756
8	Assignment of ecto-nucleoside triphosphate diphosphohydrolase-1/cd39 expression to microglia and vasculature of the brain. <i>European Journal of Neuroscience</i> , 2000 , 12, 4357-4366	3.5	22
7	Chapter 30 Ecto-nucleotidases—molecular structures, catalytic properties, and functional roles in the nervous system. <i>Progress in Brain Research</i> , 1999 , 120, 371-385	2.9	151
6	Functional characterization of rat ecto-ATPase and ecto-ATP diphosphohydrolase after heterologous expression in CHO cells. <i>FEBS Journal</i> , 1999 , 262, 102-7		124
5	Association of ecto-5'nucleotidase with specific cell types in the adult and developing rat olfactory organ. <i>Journal of Comparative Neurology</i> , 1998 , 393, 528-37	3.4	17
4	5'nucleotidase activates and an inhibitory antibody prevents neuritic differentiation of PC12 cells. <i>European Journal of Neuroscience</i> , 1995 , 7, 1172-9	3.5	31
3	Putative synaptic vesicle nucleotide transporter identified as glyceraldehyde-3-phosphate dehydrogenase. <i>Journal of Neurochemistry</i> , 1994 , 63, 1924-31	6	22
2	Signalling via ATP in the nervous system. <i>Trends in Neurosciences</i> , 1994 , 17, 420-6	13.3	394
1	5'nucleotidase from the electric ray electric lobe. Primary structure and relation to mammalian and procaryotic enzymes. <i>FEBS Journal</i> , 1991 , 202, 855-61		43