Herbert Zimmermann

List of Publications by Year
in descending order

65	7,663	81900 39	98798 67
papers	citations	h-index	g-index

70	70	70	6114
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	History of ectonucleotidases and their role in purinergic signaling. Biochemical Pharmacology, 2021, 187, 114322.	4.4	46
2	Ectonucleoside triphosphate diphosphohydrolases and ecto-5â€²-nucleotidase in purinergic signaling: how the field developed and where we are now. Purinergic Signalling, 2021, 17, 117-125.	2.2	41
3	Maria Teresa Miras Portugal (1948â€"2021): in memoriam. Purinergic Signalling, 2021, 17, 515-517.	2.2	1
4	2-Substituted Î±,Î²-Methylene-ADP Derivatives: Potent Competitive Ecto-5â€²-nucleotidase (CD73) Inhibitors with Variable Binding Modes. Journal of Medicinal Chemistry, 2020, 63, 2941-2957.	6.4	37
5	In Memoriam Geoffrey Burnstock: Creator of Purinergic Signaling. Function, 2020, 1, .	2.3	20
6	Fluorescent Probes for Ecto-5â€²-nucleotidase (CD73). ACS Medicinal Chemistry Letters, 2020, 11, 2253-2260.	2.8	10
7	Comments on Cui Qâ€Q etÂal : â€œHippocampal CD 39/ENTPD 1 promotes mouse depressionâ€like behavior â€¦â€. EMBO Reports, 2020, 21, e50737.	4.5	1
8	Xâ€Ray Coâ€Crystal Structure Guides the Way to Subnanomolar Competitive Ectoâ€5â€²â€Nucleotidase (CD73) Inhibitors for Cancer Immunotherapy. Advanced Therapeutics, 2019, 2, 1900075.	3.2	33
9	Identification of adenine-N9-(methoxy)ethyl-Î²-bisphosphonate as NPP1 inhibitor attenuates NPPase activity in human osteoarthritic chondrocytes. Purinergic Signalling, 2019, 15, 247-263.	2.2	6
10	Structureâ€"Activity Relationship of Purine and Pyrimidine Nucleotides as Ecto-5â€²-Nucleotidase (CD73) Inhibitors. Journal of Medicinal Chemistry, 2019, 62, 3677-3695.	6.4	53
11	Activation of Adenylyl Cyclase Causes Stimulation of Adenosine Receptors. Cellular Physiology and Biochemistry, 2018, 45, 2516-2528.	1.6	20
12	Disruption of the Microglial ADP Receptor P2Y13 Enhances Adult Hippocampal Neurogenesis. Frontiers in Cellular Neuroscience, 2018, 12, 134.	3.7	35
13	Victor P. Whittaker: The Discovery of the Synaptosome and Its Implications. Neuromethods, 2018, , 9-26.	0.3	1
14	Victor P. Whittaker (1919-2016). Journal of Neurochemistry, 2016, 139, 333-335.	3.9	4
15	Melatonin receptor deficiency decreases and temporally shifts ecto-5â€²-nucleotidase mRNA levels in mouse prosencephalon. Cell and Tissue Research, 2016, 365, 147-156.	2.9	7
16	Extracellular ATP and other nucleotidesâ€"ubiquitous triggers of intercellular messenger release. Purinergic Signalling, 2016, 12, 25-57.	2.2	78
17	Expression of ectonucleotidases in the prosencephalon of melatonin-proficient C3H and melatonin-deficient C57Bl mice: spatial distribution and time-dependent changes. Cell and Tissue Research, 2015, 362, 163-176.	2.9	11
18	Tissue-nonspecific Alkaline Phosphatase Regulates Purinergic Transmission in the Central Nervous System During Development and Disease. Computational and Structural Biotechnology Journal, 2015, 13, 95-100.	4.1	58

#	Article	IF	Citations
19	NTPDase2 and Purinergic Signaling Control Progenitor Cell Proliferation in Neurogenic Niches of the Adult Mouse Brain. Stem Cells, 2015, 33, 253-264.	3.2	45
20	Î±,Î²-Methylene-ADP (AOPCP) Derivatives and Analogues: Development of Potent and Selective <i>ecto</i>-5â€²-Nucleotidase (CD73) Inhibitors. Journal of Medicinal Chemistry, 2015, 58, 6248-6263.	6.4	110
21	NTPDase2 and the P2Y1 receptor are not required for mammalian eye formation. Purinergic Signalling, 2015, 11, 155-160.	2.2	15
22	Tissue-Nonspecific Alkaline Phosphatase in the Developing Brain and in Adult Neurogenesis. Sub-Cellular Biochemistry, 2015, 76, 61-84.	2.4	8
23	Polyoxometalatesâ€"Potent and selective ecto-nucleotidase inhibitors. Biochemical Pharmacology, 2015, 93, 171-181.	4.4	107
24	A new, sensitive ecto-5â€²-nucleotidase assay for compound screening. Analytical Biochemistry, 2014, 446, 53-58.	2.4	40
25	P2X7 receptors at adult neural progenitor cells of the mouse subventricular zone. Neuropharmacology, 2013, 73, 122-137.	4.1	67
26	Cellular function and molecular structure of ecto-nucleotidases. Purinergic Signalling, 2012, 8, 437-502.	2.2	850
27	The medial habenula contains a specific nonstellate subtype of astrocyte expressing the ectonucleotidase NTPDase2. Glia, 2012, 60, 1860-1870.	4.9	16
28	Purinergic signaling in neural development. Seminars in Cell and Developmental Biology, 2011, 22, 194-204.	5.0	70
29	Nucleotides affect neurogenesis and dopaminergic differentiation of mouse fetal midbrain-derived neural precursor cells. Purinergic Signalling, 2010, 6, 417-428.	2.2	28
30	Knockdown of tissue nonspecific alkaline phosphatase impairs neural stem cell proliferation and differentiation. Neuroscience Letters, 2010, 485, 208-211.	2.1	56
31	Coordinate pathways for nucleotide and EGF signaling in cultured adult neural progenitor cells. Journal of Cell Science, 2009, 122, 2524-2533.	2.0	66
32	Prostatic acid phosphatase, a neglected ectonucleotidase. Purinergic Signalling, 2009, 5, 273-275.	2.2	34
33	Nucleoside-5â€²-monophosphates as Prodrugs of Adenosine A_{2A} Receptor Agonists Activated by ecto-5â€²-Nucleotidaseâ€Contribution to celebrate the 100th anniversary of the Division of Medicinal Chemistry of the American Chemical Society.. Journal of Medicinal Chemistry, 2009, 52, 7669-7677.	6.4	63
34	Purinergic signalling in the nervous system: an overview. Trends in Neurosciences, 2009, 32, 19-29.	8.6	733
35	Trophic functions of nucleotides in the central nervous system. Trends in Neurosciences, 2009, 32, 189-198.	8.6	103
36	Distribution of ectonucleotidases in the rodent brain revisited. Cell and Tissue Research, 2008, 334, 199-217.	2.9	140

#	Article	IF	Citations
37	ATP and acetylcholine, equal brethren. Neurochemistry International, 2008, 52, 634-648.	3.8	70
38	Purinergic receptor activation inhibits osmotic glial cell swelling in the diabetic rat retina. Experimental Eye Research, 2008, 87, 385-393.	2.6	43
39	Ectonucleotidases in the Nervous System. Novartis Foundation Symposium, 2008, , 113-130.	1.1	157
40	Ectonucleotidases in MÃ¼ller glial cells of the rodent retina: Involvement in inhibition of osmotic cell swelling. Purinergic Signalling, 2007, 3, 423-433.	2.2	43
41	Extracellular nucleotide signaling in adult neural stem cells: synergism with growth factor-mediated cellular proliferation. Development (Cambridge), 2006, 133, 675-684.	2.5	193
42	Uracil nucleotides stimulate human neural precursor cell proliferation and dopaminergic differentiation: involvement of MEK/ERK signalling. Journal of Neurochemistry, 2006, 99, 913-923.	3.9	68
43	The E-NTPDase family of ectonucleotidases: Structure function relationships and pathophysiological significance. Purinergic Signalling, 2006, 2, 409-430.	2.2	795
44	Nucleotide signaling in nervous system development. Pflugers Archiv European Journal of Physiology, 2006, 452, 573-588.	2.8	147
45	Polyoxometalatesâ€"a new class of potent ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5943-5947.	2.2	167
46	Functional expression of the ecto-ATPase NTPDase2 and of nucleotide receptors by neuronal progenitor cells in the adult murine hippocampus. Journal of Neuroscience Research, 2005, 80, 600-610.	2.9	87
47	Targeted Disruption of<i>cd73</i>/Ecto-5â€²-Nucleotidase Alters Thromboregulation and Augments Vascular Inflammatory Response. Circulation Research, 2004, 95, 814-821.	4.5	220
48	Association of the ecto-ATPase NTPDase2 with glial cells of the peripheral nervous system. Glia, 2004, 45, 124-132.	4.9	100
49	Determination of native oligomeric state and substrate specificity of rat NTPDase1 and NTPDase2 after heterologous expression in Xenopus oocytes. FEBS Journal, 2003, 270, 1802-1809.	0.2	40
50	Hydrolysis of diadenosine polyphosphates by nucleotide pyrophosphatases/phosphodiesterases. FEBS Journal, 2003, 270, 2971-2978.	0.2	80
51	Expression of the ecto-ATPase NTPDase2 in the germinal zones of the developing and adult rat brain. European Journal of Neuroscience, 2003, 17, 1355-1364.	2.6	159
52	ATP Inhibits NMDA Receptors after Heterologous Expression and in Cultured Hippocampal Neurons and Attenuates NMDA-Mediated Neurotoxicity. Journal of Neuroscience, 2003, 23, 4996-5003.	3.6	35
53	Ectonucleotidases: Some recent developments and a note on nomenclature. Drug Development Research, 2001, 52, 44-56.	2.9	367
54	Sequencing, functional expression and characterization of rat NTPDase6, a nucleoside diphosphatase and novel member of the ecto-nucleoside triphosphate diphosphohydrolase family. Biochemical Journal, 2000, 351, 639.	3.7	24

#	Article	IF	Citations
55	Sequencing, functional expression and characterization of rat NTPDase6, a nucleoside diphosphatase and novel member of the ecto-nucleoside triphosphate diphosphohydrolase family. Biochemical Journal, 2000, 351, 639-647.	3.7	61
56	Assignment of ectoâ€nucleoside triphosphate diphosphohydrolaseâ€1/cd39 expression to microglia and vasculature of the brain. European Journal of Neuroscience, 2000, 12, 4357-4366.	2.6	55
57	Extracellular metabolism of ATP and other nucleotides. Naunyn-Schmiedeberg's Archives of Pharmacology, 2000, 362, 299-309.	3.0	844
58	Assignment of ecto-nucleoside triphosphate diphosphohydrolase-1/cd39 expression to microglia and vasculature of the brain. European Journal of Neuroscience, 2000, 12, 4357-4366.	2.6	27
59	Chapter 30 Ecto-nucleotidasesâ€"molecular structures, catalytic properties, and functional roles in the nervous system. Progress in Brain Research, 1999, 120, 371-385.	1.4	179
60	Functional characterization of rat ecto-ATPase and ecto-ATP diphosphohydrolase after heterologous expression in CHO cells. FEBS Journal, 1999, 262, 102-107.	0.2	139
61	Association of ecto-5?-nucleotidase with specific cell types in the adult and developing rat olfactory organ. , 1998, 393, 528-537.		17
62	5â€²-Nucleotidase Activates and an Inhibitory Antibody Prevents Neuritic Differentiation of PC12 Cells. European Journal of Neuroscience, 1995, 7, 1172-1179.	2.6	32
63	Signalling via ATP in the nervous system. Trends in Neurosciences, 1994, 17, 420-426.	8.6	418
64	Putative Synaptic Vesicle Nucleotide Transporter Identified as Glyceraldehydeâ€3â€Phosphate Dehydrogenase. Journal of Neurochemistry, 1994, 63, 1924-1931.	3.9	24
65	5'-Nucleotidase from the electric ray electric lobe. Primary structure and relation to mammalian and procaryotic enzymes. FEBS Journal, 1991, 202, 855-861.	0.2	48