

Arnd Baumann

List of Publications by Year in descending order

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67
papers

2,983
citations

218592

26
h-index

168321

53
g-index

69
all docs

69
docs citations

69
times ranked

2515
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular and pharmacological properties of insect biogenic amine receptors: Lessons from <i>Drosophila melanogaster</i> and <i>Apis mellifera</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 2001, 48, 13-38.	0.6	336
2	Molecular Determinants of Dofetilide Block of HERG K ⁺ Channels. <i>Circulation Research</i> , 1998, 82, 386-395.	2.0	286
3	Potassium channels expressed from rat brain cDNA have delayed rectifier properties. <i>FEBS Letters</i> , 1988, 242, 199-206.	1.3	168
4	Molecular and functional characterization of an octopamine receptor from honeybee (<i>Apis mellifera</i>) brain. <i>Journal of Neurochemistry</i> , 2003, 86, 725-735.	2.1	162
5	A family of octopamine receptors that specifically induce cyclic AMP production or Ca ²⁺ release in <i>Drosophila melanogaster</i> . <i>Journal of Neurochemistry</i> , 2005, 93, 440-451.	2.1	155
6	Amyr1. <i>Journal of Neurochemistry</i> , 2000, 74, 900-908.	2.1	154
7	Aminergic Control and Modulation of Honeybee Behaviour. <i>Current Neuropharmacology</i> , 2006, 4, 259-276.	1.4	137
8	Characterization of a Dopamine D1 Receptor from <i>Apis mellifera</i> : Cloning, Functional Expression, Pharmacology, and mRNA Localization in the Brain. <i>Journal of Neurochemistry</i> , 1998, 70, 15-23.	2.1	136
9	Characterization of the 5-HT1A receptor of the honeybee (<i>Apis mellifera</i>) and involvement of serotonin in phototactic behavior. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 2467-2479.	2.4	90
10	Plant essential oils and formamidines as insecticides/acaricides: what are the molecular targets?. <i>Apidologie</i> , 2012, 43, 334-347.	0.9	85
11	Characterization of Ether-Å-go-go Channels Present in Photoreceptors Reveals Similarity to IK _x , a K ⁺ Current in Rod Inner Segments. <i>Journal of General Physiology</i> , 1998, 111, 583-599.	0.9	79
12	Postnatal Expression Pattern of HCN Channel Isoforms in Thalamic Neurons: Relationship to Maturation of Thalamocortical Oscillations. <i>Journal of Neuroscience</i> , 2009, 29, 8847-8857.	1.7	79
13	Cell-Transistor Coupling: Investigation of Potassium Currents Recorded with p- and n-Channel FETs. <i>Biophysical Journal</i> , 2005, 89, 3628-3638.	0.2	63
14	Am5-HT7: molecular and pharmacological characterization of the first serotonin receptor of the honeybee (<i>Apis mellifera</i>). <i>Journal of Neurochemistry</i> , 2006, 98, 1985-1998.	2.1	63
15	Transiently Increasing cAMP Levels Selectively in Hippocampal Excitatory Neurons during Sleep Deprivation Prevents Memory Deficits Caused by Sleep Loss. <i>Journal of Neuroscience</i> , 2014, 34, 15715-15721.	1.7	62
16	Molecular, pharmacological, and signaling properties of octopamine receptors from honeybee (<i>Apis mellifera</i>) brain. <i>Journal of Neurochemistry</i> , 2014, 129, 284-296.	2.1	62
17	The aminergic control of cockroach salivary glands. <i>Archives of Insect Biochemistry and Physiology</i> , 2006, 62, 141-152.	0.6	55
18	Molecular and Pharmacological Characterization of Serotonin 5-HT _{2A} and 5-HT ₇ Receptors in the Salivary Glands of the Blowfly <i>Calliphora vicina</i> . <i>PLoS ONE</i> , 2012, 7, e49459.	1.1	38

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19	Molecular identification and functional characterization of an adenylyl cyclase from the honeybee. <i>Journal of Neurochemistry</i> , 2006, 96, 1580-1590.	2.1	36
20	Modulation of thalamocortical oscillations by TRIP8b, an auxiliary subunit for HCN channels. <i>Brain Structure and Function</i> , 2018, 223, 1537-1564.	1.2	36
21	Function and Distribution of 5-HT ₂ Receptors in the Honeybee (<i>Apis mellifera</i>). <i>PLoS ONE</i> , 2013, 8, e82407.	1.1	35
22	Structure and developmental expression of the $\hat{D}\hat{1}\hat{2}$ gene encoding a novel nicotinic acetylcholine receptor protein of <i>Drosophila melanogaster</i> . <i>FEBS Letters</i> , 1990, 269, 264-268.	1.3	34
23	AmTAR2: Functional characterization of a honeybee tyramine receptor stimulating adenylyl cyclase activity. <i>Insect Biochemistry and Molecular Biology</i> , 2017, 80, 91-100.	1.2	34
24	Pharmacological Characterization of a 5-HT ₁ -Type Serotonin Receptor in the Red Flour Beetle, <i>Tribolium castaneum</i> . <i>PLoS ONE</i> , 2013, 8, e65052.	1.1	33
25	Expression of voltage-gated K ⁺ channels in insulin-producing cells. <i>FEBS Letters</i> , 1990, 263, 121-126.	1.3	31
26	Dorsal BNST $\hat{1}\hat{2}$ -Adrenergic Receptors Produce HCN-Dependent Excitatory Actions That Initiate Anxiogenic Behaviors. <i>Journal of Neuroscience</i> , 2018, 38, 8922-8942.	1.7	31
27	SNSMIL, a real-time single molecule identification and localization algorithm for super-resolution fluorescence microscopy. <i>Scientific Reports</i> , 2015, 5, 11073.	1.6	29
28	Individual Subunits Contribute Independently to Slow Gating of Bovine EAG Potassium Channels. <i>Journal of Biological Chemistry</i> , 1999, 274, 5362-5369.	1.6	27
29	Functional characterization of transmembrane adenylyl cyclases from the honeybee brain. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 435-445.	1.2	24
30	Direct electrochemistry of novel affinity-tag immobilized recombinant horse heart cytochrome c. <i>Biosensors and Bioelectronics</i> , 2012, 34, 171-177.	5.3	24
31	Sequence of $\hat{D}\hat{1}\hat{2}$, a novel $\hat{1}\hat{2}$ -like subunit of <i>Drosophila</i> nicotinic acetylcholine receptors. <i>Nucleic Acids Research</i> , 1990, 18, 3640-3640.	6.5	23
32	Dm5-HT _{2B} : Pharmacological Characterization of the Fifth Serotonin Receptor Subtype of <i>Drosophila melanogaster</i> . <i>Frontiers in Systems Neuroscience</i> , 2017, 11, 28.	1.2	23
33	Protein phosphatase type-2C isozymes present in vertebrate retinæ: Purification, characterization, and localization in photoreceptors. , 1998, 51, 328-338.		22
34	A single amino acid residue controls Ca ²⁺ signaling by an octopamine receptor from <i>Drosophila melanogaster</i> . <i>FASEB Journal</i> , 2011, 25, 2484-2491.	0.2	22
35	Choline acetyltransferase-like immunoreactivity in a physiologically distinct subtype of olfactory nonspiking local interneurons in the cockroach (<i>periplaneta americana</i>). <i>Journal of Comparative Neurology</i> , 2013, 521, 3556-3569.	0.9	22
36	Cockroach GABAB receptor subtypes: Molecular characterization, pharmacological properties and tissue distribution. <i>Neuropharmacology</i> , 2015, 88, 134-144.	2.0	22

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37	Modulation of Hyperpolarization-Activated Inward Current and Thalamic Activity Modes by Different Cyclic Nucleotides. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 369.	1.8	22
38	Characterization of an Invertebrate-Type Dopamine Receptor of the American Cockroach, <i>Periplaneta americana</i> . <i>International Journal of Molecular Sciences</i> , 2014, 15, 629-653.	1.8	21
39	Blood glutamate EAAT2-cell grabbing therapy in cerebral ischemia. <i>EBioMedicine</i> , 2019, 39, 118-131.	2.7	21
40	HCN4 knockdown in dorsal hippocampus promotes anxiety-like behavior in mice. <i>Genes, Brain and Behavior</i> , 2019, 18, e12550.	1.1	18
41	Functional Properties of <i>Drosophila</i> Dopamine D1-Receptors Are Not Altered by the Size of the N-Terminus. <i>Biochemical and Biophysical Research Communications</i> , 1996, 222, 121-126.	1.0	15
42	AmOct β 2R: Functional Characterization of a Honeybee Octopamine Receptor Inhibiting Adenylyl Cyclase Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9334.	1.8	14
43	A cGMP-gated channel subunit in <i>Limulus</i> photoreceptors. <i>Visual Neuroscience</i> , 2001, 18, 517-526.	0.5	12
44	High-efficiency transduction and specific expression of ChR2opt for optogenetic manipulation of primary cortical neurons mediated by recombinant adeno-associated viruses. <i>Journal of Biotechnology</i> , 2016, 233, 171-180.	1.9	12
45	PeaTAR1B: Characterization of a Second Type 1 Tyramine Receptor of the American Cockroach, <i>Periplaneta americana</i> . <i>International Journal of Molecular Sciences</i> , 2017, 18, 2279.	1.8	12
46	Elimination of a ligand gating site generates a supersensitive olfactory receptor. <i>Scientific Reports</i> , 2016, 6, 28359.	1.6	11
47	Caspase-3 and GFAP as early markers for apoptosis and astrogliosis in shRNA-induced hippocampal cytotoxicity. <i>Journal of Experimental Biology</i> , 2017, 220, 1400-1404.	0.8	11
48	Molecular characterization of the ebony gene from the American cockroach, <i>Periplaneta americana</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 2005, 59, 184-195.	0.6	10
49	Bestrophin 2: An anion channel associated with neurogenesis in chemosensory systems. <i>Journal of Comparative Neurology</i> , 2009, 515, 585-599.	0.9	10
50	Bidirectional immobilization of affinity-tagged cytochrome c on electrode surfaces. <i>Chemical Communications</i> , 2010, 46, 5295.	2.2	10
51	Full rescue of an inactive olfactory receptor mutant by elimination of an allosteric ligand-gating site. <i>Scientific Reports</i> , 2018, 8, 9631.	1.6	9
52	Coumarin-Based Octopamine Phototriggers and their Effects on an Insect Octopamine Receptor. <i>ChemBioChem</i> , 2012, 13, 1458-1464.	1.3	7
53	Molecular and functional profiling of histamine receptor-mediated calcium ion signals in different cell lines. <i>Analytical Biochemistry</i> , 2015, 486, 96-101.	1.1	6
54	AAV-Mediated CRISPRi and RNAi Based Gene Silencing in Mouse Hippocampal Neurons. <i>Cells</i> , 2021, 10, 324.	1.8	5

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55	Characterization of the 5'€² regulatory region of the <i>Drosophila</i> Dmdop1 dopamine receptor-gene. <i>Archives of Insect Biochemistry and Physiology</i> , 2005, 59, 118-131.	0.6	4
56	Biochemical properties of heterologously expressed and native adenylyl cyclases from the honeybee brain (<i>Apis mellifera</i> L.). <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 573-580.	1.2	4
57	Adenylyl Cyclases: Expression in the Developing Rat Thalamus and Their Role in Absence Epilepsy. <i>Journal of Molecular Neuroscience</i> , 2012, 48, 45-52.	1.1	4
58	Distinct expression patterns of HCN channels in HL-1 cardiomyocytes. <i>BMC Cell Biology</i> , 2015, 16, 18.	3.0	4
59	PaOct ² R: Identification and Functional Characterization of an Octopamine Receptor Activating Adenylyl Cyclase Activity in the American Cockroach <i>Periplaneta americana</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 1677.	1.8	4
60	A family of octopamine receptors that specifically induce cyclic AMP production or Ca ²⁺ release in <i>Drosophila melanogaster</i> . <i>Journal of Neurochemistry</i> , 2005, 94, 1168-1168.	2.1	3
61	Loss of HCN2 in Dorsal Hippocampus of Young Adult Mice Induces Specific Apoptosis of the CA1 Pyramidal Neuron Layer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6699.	1.8	3
62	Molecular Cloning of Protein Phosphatase Type 2C Isoforms from Retinal cDNA. , 1998, 93, 243-250.		2
63	Biogenic Amines. , 2009, , 80-82.		2
64	The Functional Characterization of GCaMP3.0 Variants Specifically Targeted to Subcellular Domains. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6593.	1.8	2
65	Development and Evaluation of a Versatile Receptor-Ligand Binding Assay Using Cell Membrane Preparations Embedded in an Agarose Gel Matrix and Evaluation with the Human Adenosine A1Receptor. <i>Assay and Drug Development Technologies</i> , 2020, 18, 328-340.	0.6	1
66	Establishing a sensitive fluorescence-based quantification method for cyclic nucleotides. <i>BMC Biotechnology</i> , 2020, 20, 47.	1.7	1
67	Recombinant Adeno-associated virus (rAAV)-mediated transduction and optogenetic manipulation of cortical neurons in vitro. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0