Petra Scholze

List of Publications by Year
in descending order

56 papers	1,556 citations	331259 21 h-index	329751 37 g-index
61 all docs	61 docs citations	61 times ranked	1803 citing authors

#	Article	IF	Citations
1	Oligomerization of the Human Serotonin Transporter and of the Rat GABA Transporter 1 Visualized by Fluorescence Resonance Energy Transfer Microscopy in Living Cells. Journal of Biological Chemistry, 2001, 276, 3805-3810.	1.6	176
2	Amphetamines Take Two to Tango: an Oligomer-Based Counter-Transport Model of Neurotransmitter Transport Explores the Amphetamine Action. Molecular Pharmacology, 2005, 67, 140-151.	1.0	109
3	Mutations within an Intramembrane Leucine Heptad Repeat Disrupt Oligomer Formation of the Rat GABA Transporter 1. Journal of Biological Chemistry, 2002, 277, 43682-43690.	1.6	108
4	Serotonin-transporter mediated efflux: A pharmacological analysis of amphetamines and non-amphetamines. Neuropharmacology, 2005, 49, 811-819.	2.0	93
5	The Role of Zinc Ions in Reverse Transport Mediated by Monoamine Transporters. Journal of Biological Chemistry, 2002, 277, 21505-21513.	1.6	80
6	Two Discontinuous Segments in the Carboxyl Terminus Are Required for Membrane Targeting of the Rat Î³-Aminobutyric Acid Transporter-1 (GAT1). Journal of Biological Chemistry, 2004, 279, 28553-28563.	1.6	73
7	Quantitative Analysis of Inward and Outward Transport Rates in Cells Stably Expressing the Cloned Human Serotonin Transporter: Inconsistencies with the Hypothesis of Facilitated Exchange Diffusion. Molecular Pharmacology, 2001, 59, 1129-1137.	1.0	65
8	Detection Methods for Autoantibodies in Suspected Autoimmune Encephalitis. Frontiers in Neurology, 2018, 9, 841.	1.1	60
9	Novel Benzodiazepine-Like Ligands with Various Anxiolytic, Antidepressant, or Pro-Cognitive Profiles. Molecular Neuropsychiatry, 2019, 5, 84-97.	3.0	54
10	The neuronal glycine transporter 2 interacts with the PDZ domain protein syntenin-1. Molecular and Cellular Neurosciences, 2004, 26, 518-529.	1.0	53
11	Biochemical and functional properties of distinct nicotinic acetylcholine receptors in the superior cervical ganglion of mice with targeted deletions of nAChR subunit genes. European Journal of Neuroscience, 2010, 31, 978-993.	1.2	52
12	Disturbed neurotransmitter homeostasis in ether lipid deficiency. Human Molecular Genetics, 2019, 28, 2046-2061.	1.4	47
13	A Human Polymorphism in CHRNA5 Is Linked to Relapse to Nicotine Seeking in Transgenic Rats. Current Biology, 2018, 28, 3244-3253.e7.	1.8	36
14	Nicotinic acetylcholine receptors modulate osteoclastogenesis. Arthritis Research and Therapy, 2016, 18, 63.	1.6	32
15	Ester to amide substitution improves selectivity, efficacy and kinetic behavior of a benzodiazepine positive modulator of GABAA receptors containing the Î±5 subunit. European Journal of Pharmacology, 2016, 791, 433-443.	1.7	30
16	Affinity of various ligands for GABAA receptors containing Î±4Î²3Î³2, Î±4Î³2, or Î±1Î²3Î³2 subunits. European Journal of Pharmacology, 1996, 304, 155-162.	1.7	28
17	Different Benzodiazepines Bind with Distinct Binding Modes to GABA_A Receptors. ACS Chemical Biology, 2018, 13, 2033-2039.	1.6	28
18	Substantial loss of substrate by diffusion during uptake in HEK-293 cells expressing neurotransmitter transporters. Neuroscience Letters, 2001, 309, 173-176.	1.0	25

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19	Bi-directional transport of GABA in human embryonic kidney (HEK-293) cells stably expressing the rat GABA transporter GAT-1. British Journal of Pharmacology, 2002, 135, 93-102.	2.7	25
20	Molecular tools for GABAA receptors: High affinity ligands for Î²1-containing subtypes. Scientific Reports, 2017, 7, 5674.	1.6	25
21	Towards functional selectivity for Î±6Î²3Î³2 GABA_A receptors: a series of novel pyrazoloquinolinones. British Journal of Pharmacology, 2018, 175, 419-428.	2.7	25
22	Trigeminal neuropathic pain development and maintenance in rats are suppressed by a positive modulator of Î±6 GABA_A receptors. European Journal of Pain, 2019, 23, 973-984.	1.4	24
23	Subunit composition of Î±5â€containing nicotinic receptors in the rodent habenula. Journal of Neurochemistry, 2012, 121, 551-560.	2.1	22
24	Nicotinic acetylcholine receptors control acetylcholine and noradrenaline release in the rodent habenuloâ€interpeduncular complex. British Journal of Pharmacology, 2014, 171, 5209-5224.	2.7	20
25	A photoswitchable GABA receptor channel blocker. British Journal of Pharmacology, 2019, 176, 2661-2677.	2.7	20
26	The Î±5 Nicotinic Acetylcholine Receptor Subunit Differentially Modulates Î±4Î²2* and Î±3Î²4* Receptors. Frontiers in Synaptic Neuroscience, 2020, 12, 607959.	1.3	20
27	A novel de novo variant of GABRA1 causes increased sensitivity for GABA in vitro. Scientific Reports, 2020, 10, 2379.	1.6	18
28	Nicotinic acetylcholine receptorâ€subunit mRNAs in the mouse superior cervical ganglion are regulated by development but not by deletion of distinct subunit genes. Journal of Neuroscience Research, 2008, 86, 972-981.	1.3	15
29	GABAA Receptor Ligands Often Interact with Binding Sites in the Transmembrane Domain and in the Extracellular Domainâ€"Can the Promiscuity Code Be Cracked?. International Journal of Molecular Sciences, 2020, 21, 334.	1.8	15
30	Singleâ€channel properties of Î±3Î²4, Î±3Î²4Î±5 and Î±3Î²4Î²2 nicotinic acetylcholine receptors in mice lacking specific nicotinic acetylcholine receptor subunits. Journal of Physiology, 2013, 591, 3271-3288.	1.3	14
31	Unexpected Properties of Î´-Containing GABAA Receptors in Response to Ligands Interacting with the Î±+ Î²âˆ’ Site. Neurochemical Research, 2014, 39, 1057-1067.	1.6	14
32	Two Distinct Populations of Î±1Î±6-Containing GABAA-Receptors in Rat Cerebellum. Frontiers in Synaptic Neuroscience, 2020, 12, 591129.	1.3	11
33	Î±4Î²2 nicotinic acetylcholine receptors in the early postnatal mouse superior cervical ganglion. Developmental Neurobiology, 2011, 71, 390-399.	1.5	10
34	Exploring the Polyamine Regulatory Site of the NMDA Receptor: a Parallel Synthesis Approach. ChemMedChem, 2013, 8, 82-94.	1.6	10
35	Molecular Mingling: Multimodal Predictions of Ligand Promiscuity in Pentameric Ligand-Gated Ion Channels. Frontiers in Molecular Biosciences, 2022, 9, .	1.6	10
36	Dual mode of stimulation by the Î²-carboline ZK 91085 of recombinant GABAA receptor currents: molecular determinants affecting its action. British Journal of Pharmacology, 1999, 127, 1231-1239.	2.7	9

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37	Silencing of spontaneous activity at Î±4Î²1/3Î´ GABA A receptors in hippocampal granule cells reveals different ligand pharmacology. British Journal of Pharmacology, 2020, 177, 3975-3990.	2.7	9
38	Investigation of neurotrophic factor concentrations with a novel in vitro concept for peripheral nerve regeneration. Journal of Neuroscience Research, 2015, 93, 1631-1640.	1.3	8
39	Role of Î±5-containing nicotinic receptors in neuropathic pain and response to nicotine. Neuropharmacology, 2015, 95, 37-49.	2.0	8
40	Engineered Flumazenil Recognition Site Provides Mechanistic Insight Governing Benzodiazepine Modulation in GABA_A Receptors. ACS Chemical Biology, 2018, 13, 2040-2047.	1.6	8
41	The role of the nAChR subunits <i>Î±</i> 5, <i>Î²</i> 2, and <i>Î²</i> 4 on synaptic transmission in the mouse superior cervical ganglion. Physiological Reports, 2019, 7, e14023.	0.7	8
42	Nicotine stimulates ion transport via metabotropic Î²4 subunit containing nicotinic ACh receptors. British Journal of Pharmacology, 2020, 177, 5595-5608.	2.7	8
43	Acute nicotine administration stimulates ciliary activity via Î±3Î²4 nAChR in the mouse trachea. International Immunopharmacology, 2020, 84, 106496.	1.7	8
44	Coronaridine congeners potentiate GABAA receptors and induce sedative activity in mice in a benzodiazepine-insensitive manner. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 101, 109930.	2.5	7
45	Tricyclic antipsychotics and antidepressants can inhibit Î±5â€containing GABA_A receptors by two distinct mechanisms. British Journal of Pharmacology, 2022, 179, 3675-3692.	2.7	7
46	Attaining in vivo selectivity of positive modulation of Î±3Î²Î³2 GABAA receptors in rats: A hard task!. European Neuropsychopharmacology, 2018, 28, 903-914.	0.3	6
47	A de novo missense variant in <i>GABRA4</i> alters receptor function in an epileptic and neurodevelopmental phenotype. Epilepsia, 2022, 63, .	2.6	6
48	SAR-Guided Scoring Function and Mutational Validation Reveal the Binding Mode of CGS-8216 at the Î±1+/Î³2â€“ Benzodiazepine Site. Journal of Chemical Information and Modeling, 2018, 58, 1682-1696.	2.5	5
49	Induction of aquaporin 4-reactive antibodies in Lewis rats immunized with aquaporin 4 mimotopes. Acta Neuropathologica Communications, 2020, 8, 49.	2.4	5
50	A Benzodiazepine Ligand with Improved GABA_A Receptor <i>Î±</i>5-Subunit Selectivity Driven by Interactions with Loop C. Molecular Pharmacology, 2021, 99, 39-48.	1.0	5
51	Allosteric Modulation of GABA_A Receptors in Rat Basolateral Amygdala Blocks Stress-Enhanced Reacquisition of Nicotine Self-Administration. ACS Pharmacology and Translational Science, 2020, 3, 1158-1164.	2.5	1
52	Interaction of manganese with striatal dopamine turnover in human alpha-synuclein transgenic mice. BMC Pharmacology, 2010, 10, .	0.4	0
53	Photomodulation of Inhibitory Neurotransmission. Insights from Molecular Modeling. Biophysical Journal, 2020, 118, 325a-326a.	0.2	0
54	Comparing the high affinity benzodiazepine binding site with the homologous â€œCGS 9895â€•site in GABAâ€A receptors (1059.1). FASEB Journal, 2014, 28, 1059.1.	0.2	0

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55	Imaging and Electrophysiology of Individual Neurites Functionally Isolated in Microchannels. Neuromethods, 2020, , 341-377.	0.2	0
56	Allosteric Modulation of GABA Receptors in Rat Basolateral Amygdala Blocks Stress-Enhanced Reacquisition of Nicotine Self-Administration. ACS Pharmacology and Translational Science, 2020, 3, 1158-1164.	2.5	0