

Evgeni G Ponimaskin

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,971
citations

136740

32
h-index

128067

60
g-index

75
all docs

75
docs citations

75
times ranked

5995
citing authors

#	ARTICLE	IF	CITATIONS
1	3dSpAn: An interactive software for 3D segmentation and analysis of dendritic spines. <i>Neuroinformatics</i> , 2022, 20, 679-698.	1.5	10
2	Activation of the 5-HT7 receptor and MMP-9 signaling module in the hippocampal CA1 region is necessary for the development of depressive-like behavior. <i>Cell Reports</i> , 2022, 38, 110532.	2.9	18
3	Palmitoylation of the small GTPase Cdc42 by DHHC5 modulates spine formation and gene transcription. <i>Journal of Biological Chemistry</i> , 2022, 298, 102048.	1.6	8
4	A high-fat diet changes astrocytic metabolism to promote synaptic plasticity and behavior. <i>Acta Physiologica</i> , 2022, 236, .	1.8	18
5	Serotonin receptor 4 regulates hippocampal astrocyte morphology and function. <i>Glia</i> , 2021, 69, 872-889.	2.5	15
6	Amelioration of Tau pathology and memory deficits by targeting 5-HT7 receptor. <i>Progress in Neurobiology</i> , 2021, 197, 101900.	2.8	15
7	<i>In Vitro</i> Development of Human iPSC-Derived Functional Neuronal Networks on Laser-Fabricated 3D Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7839-7853.	4.0	34
8	mTORC1 activity is supported by spatial association with focal adhesions. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	41
9	The 5-HT4 receptor interacts with adhesion molecule L1 to modulate morphogenic signaling in neurons. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	4
10	Knowledge-Based Design of Long-Chain Arylpiperazine Derivatives Targeting Multiple Serotonin Receptors as Potential Candidates for Treatment of Autism Spectrum Disorder. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1313-1327.	1.7	10
11	Acute stress reveals different impacts in male and female <i>Zdhc7</i> -deficient mice. <i>Brain Structure and Function</i> , 2021, 226, 1613-1626.	1.2	3
12	Structure of serotonin receptors: molecular underpinning of receptor activation and modulation. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 243.	7.1	3
13	S-Palmitoylation of Synaptic Proteins as a Novel Mechanism Underlying Sex-Dependent Differences in Neuronal Plasticity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6253.	1.8	7
14	Brain microstructural changes in mice persist in adulthood and are modulated by the palmitoyl acyltransferase ZDHHC7. <i>European Journal of Neuroscience</i> , 2021, 54, 5951-5967.	1.2	9
15	Elucidating regulators of astrocytic Ca ²⁺ signaling via multi-threshold event detection (<i>MTED</i>). <i>Glia</i> , 2021, 69, 2798-2811.	2.5	3
16	Novel aspects of age-protection by spermidine supplementation are associated with preserved telomere length. <i>GeroScience</i> , 2021, 43, 673-690.	2.1	18
17	Context value updating and multidimensional neuronal encoding in the retrosplenial cortex. <i>Nature Communications</i> , 2021, 12, 6045.	5.8	8
18	Implication of 5-HT7 receptor in prefrontal circuit assembly and detrimental emotional effects of SSRIs during development. <i>Neuropsychopharmacology</i> , 2020, 45, 2267-2277.	2.8	11

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19	Assessment of major mental disorders in a German peripartum cardiomyopathy cohort. <i>ESC Heart Failure</i> , 2020, 7, 4394-4398.	1.4	20
20	DHHC7-mediated palmitoylation of the accessory protein barttin critically regulates the functions of ClC-K chloride channels. <i>Journal of Biological Chemistry</i> , 2020, 295, 5970-5983.	1.6	9
21	Serotonin 5-HT ₄ receptor boosts functional maturation of dendritic spines via RhoA-dependent control of F-actin. <i>Communications Biology</i> , 2020, 3, 76.	2.0	26
22	Neuronal branching of sensory neurons is associated with BDNF α -positive eosinophils in atopic dermatitis. <i>Clinical and Experimental Allergy</i> , 2020, 50, 577-584.	1.4	40
23	Calcium-sensing receptor regulates intestinal dipeptide absorption via Ca ²⁺ signaling and IK _{Ca} activation. <i>Physiological Reports</i> , 2020, 8, e14337.	0.7	8
24	Serotonin receptor oligomerization regulates cAMP-based signaling. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	14
25	Fluoxetine induces glucose uptake and modifies glucose transporter palmitoylation in human peripheral blood mononuclear cells. <i>Expert Opinion on Therapeutic Targets</i> , 2019, 23, 883-891.	1.5	15
26	Attenuated palmitoylation of serotonin receptor 5-HT _{1A} affects receptor function and contributes to depression-like behaviors. <i>Nature Communications</i> , 2019, 10, 3924.	5.8	100
27	Deficiency of the palmitoyl acyltransferase ZDHHC7 impacts brain and behavior of mice in a sex-specific manner. <i>Brain Structure and Function</i> , 2019, 224, 2213-2230.	1.2	12
28	Fluorinated indole-imidazole conjugates: Selective orally bioavailable 5-HT ₇ receptor low-basicity agonists, potential neuropathic painkillers. <i>European Journal of Medicinal Chemistry</i> , 2019, 170, 261-275.	2.6	22
29	The guanine nucleotide exchange factor Vav3 modulates oligodendrocyte precursor differentiation and supports remyelination in white matter lesions. <i>Glia</i> , 2019, 67, 376-392.	2.5	22
30	Spermidine protects from age-related synaptic alterations at hippocampal mossy fiber-CA3 synapses. <i>Scientific Reports</i> , 2019, 9, 19616.	1.6	33
31	Chronic unpredictable mild stress for modeling depression in rodents: Meta-analysis of model reliability. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 99, 101-116.	2.9	375
32	Inducible Phase Separation of GSK3 β As a Mechanism for Asparaginase Resistance in Acute Leukemias. <i>Blood</i> , 2019, 134, 169-169.	0.6	0
33	Interplay between the key proteins of serotonin system in SSRI antidepressants efficacy. <i>Expert Opinion on Therapeutic Targets</i> , 2018, 22, 319-330.	1.5	32
34	Control of astrocyte morphology by Rho GTPases. <i>Brain Research Bulletin</i> , 2018, 136, 44-53.	1.4	48
35	Palmitoylation as a Functional Regulator of Neurotransmitter Receptors. <i>Neural Plasticity</i> , 2018, 2018, 1-18.	1.0	40
36	Cell Adhesion Molecule Close Homolog of L1 (CHL1) Guides the Regrowth of Regenerating Motor Axons and Regulates Synaptic Coverage of Motor Neurons. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 174.	1.4	15

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37	How serotonin receptors regulate morphogenic signalling in neurons. <i>Progress in Neurobiology</i> , 2017, 151, 35-56.	2.8	86
38	Serotonin 5-HT ₇ receptor increases the density of dendritic spines and facilitates synaptogenesis in forebrain neurons. <i>Journal of Neurochemistry</i> , 2017, 141, 647-661.	2.1	66
39	Synaptic Remodeling Depends on Signaling between Serotonin Receptors and the Extracellular Matrix. <i>Cell Reports</i> , 2017, 19, 1767-1782.	2.9	92
40	ZDHHC3 Tyrosine Phosphorylation Regulates Neural Cell Adhesion Molecule Palmitoylation. <i>Molecular and Cellular Biology</i> , 2016, 36, 2208-2225.	1.1	43
41	Cleavage of Hyaluronan and CD44 Adhesion Molecule Regulate Astrocyte Morphology via Rac1 Signalling. <i>PLoS ONE</i> , 2016, 11, e0155053.	1.1	41
42	eSIP: A Novel Solution-Based Sectioned Image Property Approach for Microscope Calibration. <i>PLoS ONE</i> , 2015, 10, e0134980.	1.1	10
43	Genotype-Dependent Difference in 5-HT _{2C} Receptor-Induced Hypolocomotion: Comparison with 5-HT _{2A} Receptor Functional Activity. <i>Neural Plasticity</i> , 2015, 2015, 1-8.	1.0	7
44	Serotonin receptor 5-HT ₇ regulates morphology and migratory properties of dendritic cells. <i>Journal of Cell Science</i> , 2015, 128, 2866-80.	1.2	32
45	Human CLC-K Channels Require Palmitoylation of Their Accessory Subunit Barttin to Be Functional. <i>Journal of Biological Chemistry</i> , 2015, 290, 17390-17400.	1.6	18
46	Cellular mechanisms of the 5-HT ₇ receptor-mediated signaling. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 306.	1.0	67
47	Current microscopic methods for the neural ECM analysis. <i>Progress in Brain Research</i> , 2014, 214, 287-312.	0.9	4
48	CD44 regulates dendrite morphogenesis through Src tyrosine kinase-dependent positioning of the Golgi apparatus. <i>Journal of Cell Science</i> , 2014, 127, 5038-51.	1.2	41
49	De novo fatty acid synthesis controls the fate between regulatory T and T helper 17 cells. <i>Nature Medicine</i> , 2014, 20, 1327-1333.	15.2	694
50	Analysis of Receptor-Receptor Interaction by Combined Application of FRET and Microscopy. <i>Methods in Cell Biology</i> , 2013, 117, 243-265.	0.5	13
51	Dual lipidation of the brain-specific Cdc42 isoform regulates its functional properties. <i>Biochemical Journal</i> , 2013, 456, 311-322.	1.7	46
52	Palmitoylation of serotonin receptors. <i>Biochemical Society Transactions</i> , 2013, 41, 89-94.	1.6	17
53	5-HT ₇ /G ₁₂ Signaling Regulates Neuronal Morphology and Function in an Age-Dependent Manner. <i>Journal of Neuroscience</i> , 2012, 32, 2915-2930.	1.7	107
54	Quantitative Intensity-Based FRET Approaches: A Comparative Snapshot. <i>Biophysical Journal</i> , 2012, 103, 1821-1827.	0.2	111

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55	Computational and Experimental Analysis of the Transmembrane Domain 4/5 Dimerization Interface of the Serotonin 5-HT _{1A} Receptor. <i>Molecular Pharmacology</i> , 2012, 82, 448-463.	1.0	47
56	Heterodimerization of serotonin receptors 5-HT _{1A} and 5-HT ₇ differentially regulates receptor signalling and trafficking. <i>Journal of Cell Science</i> , 2012, 125, 2486-99.	1.2	163
57	Constitutive G _s -mediated, but not G ₁₂ -mediated, activity of the 5-hydroxytryptamine 5-HT ₇ (a) receptor is modulated by the palmitoylation of its C-terminal domain. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1646-1655.	1.9	40
58	Specific oligomerization of the 5-HT _{1A} receptor in the plasma membrane. <i>Glycoconjugate Journal</i> , 2009, 26, 749-756.	1.4	30
59	G Protein - Mediated Signaling: Same Receptor, Multiple Effectors. <i>Current Molecular Pharmacology</i> , 2009, 2, 237-248.	0.7	62
60	Stimulation- and palmitoylation-dependent changes in oligomeric conformation of serotonin 5-HT _{1A} receptors. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1503-1516.	1.9	48
61	Analysis of FRET Signals in the Presence of Free Donors and Acceptors. <i>Biophysical Journal</i> , 2008, 94, 986-1000.	0.2	130
62	Quantitative Measurement of cAMP Concentration Using an Exchange Protein Directly Activated by a cAMP-Based FRET-Sensor. <i>Biophysical Journal</i> , 2008, 95, 5412-5423.	0.2	28
63	Fibroblast Growth Factor-Regulated Palmitoylation of the Neural Cell Adhesion Molecule Determines Neuronal Morphogenesis. <i>Journal of Neuroscience</i> , 2008, 28, 8897-8907.	1.7	63
64	Localization of the Mouse 5-Hydroxytryptamine _{1A} Receptor in Lipid Microdomains Depends on Its Palmitoylation and Is Involved in Receptor-Mediated Signaling. <i>Molecular Pharmacology</i> , 2007, 72, 502-513.	1.0	65
65	5-HT ₇ Receptor Is Coupled to G _{βγ} Subunits of Heterotrimeric G ₁₂ -Protein to Regulate Gene Transcription and Neuronal Morphology. <i>Journal of Neuroscience</i> , 2005, 25, 7821-7830.	1.7	173
66	The 5-Hydroxytryptamine(1A) Receptor Is Stably Palmitoylated, and Acylation Is Critical for Communication of Receptor with G _i Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 3280-3291.	1.6	67
67	5-HT ₄ (a) Receptors Avert Opioid-Induced Breathing Depression Without Loss of Analgesia. <i>Science</i> , 2003, 301, 226-229.	6.0	243
68	The 5-Hydroxytryptamine(4a) Receptor Is Palmitoylated at Two Different Sites, and Acylation Is Critically Involved in Regulation of Receptor Constitutive Activity. <i>Journal of Biological Chemistry</i> , 2002, 277, 2534-2546.	1.6	62
69	5-Hydroxytryptamine 4(a) Receptor Is Coupled to the G ₁₃ Subunit of Heterotrimeric G ₁₃ Protein. <i>Journal of Biological Chemistry</i> , 2002, 277, 20812-20819.	1.6	76
70	5-HT-receptor-induced changes of the intracellular cAMP level monitored by a hyperpolarization-activated cation channel. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 443, 418-426.	1.3	30
71	5-Hydroxytryptamine 4(a) receptor expressed in Sf9 cells is palmitoylated in an agonist-dependent manner. <i>Biochemical Journal</i> , 2001, 353, 627-634.	1.7	49
72	5-Hydroxytryptamine 4(a) receptor expressed in Sf9 cells is palmitoylated in an agonist-dependent manner. <i>Biochemical Journal</i> , 2001, 353, 627.	1.7	29