Jana Brejchova

List of Publications by Year
in descending order

43 papers	622 citations	567281 15 h-index	677142 22 g-index
45 all docs	45 docs citations	45 times ranked	579 citing authors

#	Article	IF	Citations
1	Tissue-specific protective properties of lithium: comparison of rat kidney, erythrocytes and brain. Naunyn-Schmiedeberg's Archives of Pharmacology, 2021, 394, 955-965.	3.0	3
2	The Altered Migration and Distribution of Systemically Administered Mesenchymal Stem Cells in Morphine-Treated Recipients. Stem Cell Reviews and Reports, 2021, 17, 1420-1428.	3.8	3
3	Therapeutic lithium alters polar head-group region of lipid bilayer and prevents lipid peroxidation in forebrain cortex of sleep-deprived rats. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158962.	2.4	2
4	Expression of Opioid Receptors in Cells of the Immune System. International Journal of Molecular Sciences, 2021, 22, 315.	4.1	26
5	Na+/K+-ATPase and lipid peroxidation in forebrain cortex and hippocampus of sleep-deprived rats treated with therapeutic lithium concentration for different periods of time. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 102, 109953.	4.8	14
6	The high-resolution proteomic analysis of protein composition of rat spleen lymphocytes stimulated by Concanavalin A; a comparison with morphine-treated cells. Journal of Neuroimmunology, 2020, 341, 577191.	2.3	0
7	Concurrent Compression of Phospholipid Membranes by Calcium and Cholesterol. Langmuir, 2019, 35, 11358-11368.	3.5	14
8	Determination of Î´-opioid receptor molecules mobility in living cells plasma membrane by novel method of FRAP analysis. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1346-1354.	2.6	2
9	Na+/K+-ATPase level and products of lipid peroxidation in live cells treated with therapeutic lithium for different periods in time (1, 7, and 28Âdays); studies of Jurkat and HEK293 cells. Naunyn-Schmiedeberg's Archives of Pharmacology, 2019, 392, 785-799.	3.0	4
10	Up-regulation of Î¼-, Î´- and Îº-opioid receptors in concanavalin A-stimulated rat spleen lymphocytes. Journal of Neuroimmunology, 2018, 321, 12-23.	2.3	14
11	Induction of oxidative stress by long-term treatment of live HEK293 cells with therapeutic concentration of lithium is associated with down-regulation of Î´-opioid receptor amount and function. Biochemical Pharmacology, 2018, 154, 452-463.	4.4	5
12	The Impact of Morphine on the Characteristics and Function Properties of Human Mesenchymal Stem Cells. Stem Cell Reviews and Reports, 2018, 14, 801-811.	5.6	18
13	Effect of therapeutic concentration of lithium on live HEK293 cells; increase of Na + /K + -ATPase, change of overall protein composition and alteration of surface layer of plasma membrane. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1099-1112.	2.4	8
14	Determination of Î¼-, Î´- and Îº-opioid receptors in forebrain cortex of rats exposed to morphine for 10 days: Comparison with animals after 20 days of morphine withdrawal. PLoS ONE, 2017, 12, e0186797.	2.5	9
15	Plasma membrane cholesterol level and agonist-induced internalization of Î´-opioid receptors; colocalization study with intracellular membrane markers of Rab family. Journal of Bioenergetics and Biomembranes, 2016, 48, 375-396.	2.3	13
16	Proteomic analysis of protein composition of rat forebrain cortex exposed to morphine for 10 days; comparison with animals exposed to morphine and subsequently nurtured for 20 days in the absence of this drug. Journal of Proteomics, 2016, 145, 11-23.	2.4	21
17	Lithium â€“ therapeutic tool endowed with multipleÂbeneficiary effects caused by multiple mechanisms. Acta Neurobiologiae Experimentalis, 2016, 76, 1-19.	0.7	33
18	TRH-receptor mobility and function in intact and cholesterol-depleted plasma membrane of HEK293 cells stably expressing TRH-R-eGFP. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 781-796.	2.6	16

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19	High Efficacy but Low Potency of Î´-Opioid Receptor-G Protein Coupling in Brij-58-Treated, Low-Density Plasma Membrane Fragments. PLoS ONE, 2015, 10, e0135664.	2.5	5
20	High- and low-affinity sites for sodium in Î´-OR-Gi1Î± (Cys351-Ile351) fusion protein stably expressed in HEK293 cells; functional significance and correlation with biophysical state of plasma membrane. Naunyn-Schmiedeberg's Archives of Pharmacology, 2014, 387, 487-502.	3.0	12
21	Proteomic analysis of post-nuclear supernatant fraction and percoll-purified membranes prepared from brain cortex of rats exposed to increasing doses of morphine. Proteome Science, 2014, 12, 11.	1.7	20
22	FLIM studies of 22- and 25-NBD-cholesterol in living HEK293 cells: Plasma membrane change induced by cholesterol depletion. Chemistry and Physics of Lipids, 2013, 167-168, 62-69.	3.2	28
23	Up-regulation of adenylylcyclases I and II induced by long-term adaptation of rats to morphine fades away 20days after morphine withdrawal. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 1220-1229.	2.4	13
24	Fluorescence spectroscopy studies of HEK293 cells expressing DOR-Gi1Î± fusion protein; the effect of cholesterol depletion. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2819-2829.	2.6	20
25	Long-term adaptation to high doses of morphine causes desensitization of mu-OR- and delta-OR-stimulated G-protein response in forebrain cortex but does not decrease the amount of G-protein alpha subunits. Medical Science Monitor, 2010, 16, BR260-70.	1.1	16
26	Maturation of rat brain is accompanied by differential expression of the long and short splice variants of GsÎ± protein: identification of cytosolic forms of GsÎ±. Journal of Neurochemistry, 2008, 79, 88-97.	3.9	19
27	Ca²⁺ responses to thyrotropinâ€releasing hormone and angiotensin II: the role of plasma membrane integrity and effect of G₁₁<i>Î±</i> protein overexpression on homologous and heterologous desensitization. Cell Biochemistry and Function, 2008, 26, 264-274.	2.9	11
28	Disruption of the Plasma Membrane Integrity by Cholesterol Depletion Impairs Effectiveness of TRH Receptor-Mediated Signal Transduction via Gq/G11Î± Proteins. Journal of Receptor and Signal Transduction Research, 2007, 27, 335-352.	2.5	12
29	Functional interactions between the Î±1b-adrenoceptor and GÎ±11 are compromised by de-palmitoylation of the G protein but not of the receptor. Cellular Signalling, 2006, 18, 1244-1251.	3.6	9
30	Prolonged Agonist Stimulation Does Not Alter the Protein Composition of Membrane Domains in Spite of Dramatic Changes Induced in a Specific Signaling Cascade. Cell Biochemistry and Biophysics, 2005, 42, 021-040.	1.8	7
31	Dominant Portion of Thyrotropin-Releasing Hormone Receptor Is Excluded from Lipid Domains. Detergent-Resistant and Detergent-Sensitive Pools of TRH Receptor and GqÎ±/G11Î± Protein. Journal of Biochemistry, 2005, 138, 111-125.	1.7	17
32	Agonist-induced tyrosine phosphorylation of Gq/G11Î± requires the intact structure of membrane domains. Biochemical and Biophysical Research Communications, 2005, 328, 526-532.	2.1	5
33	Increased baclofen-stimulated G protein coupling and deactivation in rat brain cortex during development. Developmental Brain Research, 2004, 151, 67-73.	1.7	5
34	Long-term agonist stimulation of IP prostanoid receptor depletes the cognate GsÎ± protein in membrane domains but does not change the receptor level. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1691, 51-65.	4.1	14
35	Î´â€Opioid receptors exhibit high efficiency when activating trimeric G proteins in membrane domains. Journal of Neurochemistry, 2003, 85, 34-49.	3.9	19
36	Modulation of adenylyl cyclase activity by baclofen in the developing rat brain: difference between cortex, thalamus and hippocampus. Neuroscience Letters, 2002, 330, 9-12.	2.1	9

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37	Opposing changes of trimeric G protein levels during ontogenetic development of rat brain. Developmental Brain Research, 2002, 133, 57-67.	1.7	21
38	Differentiation of cultured brown adipocytes is associated with a selective increase in the short variant of GsÎ± protein. Evidence for higher functional activity of GsÎ±S. Molecular and Cellular Endocrinology, 2000, 167, 23-31.	3.2	12
39	Thyrotropin-releasing hormone-induced depletion of Gq Î±/G11 Î± proteins from detergent-insensitive membrane domains. FEBS Letters, 1999, 464, 35-40.	2.8	21
40	Visualization of distinct patterns of subcellular redistribution of the thyrotropin-releasing hormone receptor-1 and GqÎ± /G11Î± induced by agonist stimulation. Biochemical Journal, 1999, 340, 529-538.	3.7	36
41	Agonist-induced Transfer of the alpha Subunits of the Guanine-nucleotide-binding Regulatory Proteins Gq and G11, and of Muscarinic m1 Acetylcholine Receptors from Plasma Membranes to a Light-vesicular Membrane Fraction. FEBS Journal, 1994, 224, 455-462.	0.2	35
42	Plasma-membrane-independent pool of the alpha subunit of the stimulatory guanine-nucleotide-binding regulatory protein in a low-density-membrane fraction of S49 lymphoma cells. FEBS Journal, 1992, 208, 693-698.	0.2	22
43	Different sensitivity of ATP + Mg + Na (I) and Pi + Mg (II) dependent types of ouabain binding to phospholipase A2. Journal of Membrane Biology, 1988, 104, 211-221.	2.1	26