Lenka Roubalova

List of Publications by Year
in descending order

35	529	623734 14	677142 22
papers	citations	h-index	g-index

35	35	35	585
all docs	docs citations	times ranked	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	Impact of three-month morphine withdrawal on rat brain cortex, hippocampus, striatum and cerebellum: proteomic and phosphoproteomic studies. Neurochemistry International, 2021, 144, 104975.	3.8	8
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	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
5	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
6	Proteomic analysis of protein composition of rat hippocampus exposed to morphine for 10 days; comparison with animals after 20 days of morphine withdrawal. PLoS ONE, 2020, 15, e0231721.	2.5	10
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	Protein alterations induced by longâ€term agonist treatment of HEK293 cells expressing thyrotropinâ€releasing hormone receptor and G₁₁Î± protein. Journal of Cellular Biochemistry, 2010, 109, 255-264.	2.6	11
21	14-3-3 protein interacts with and affects the structure of RGS domain of regulator of G protein signaling 3 (RGS3). Journal of Structural Biology, 2010, 170, 451-461.	2.8	34
22	The effect of detergents on trimeric G-protein activity in isolated plasma membranes from rat brain cortex: Correlation with studies of DPH and Laurdan fluorescence. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 324-332.	2.6	18
23	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
24	Modulation of adenylyl cyclase activity in young and adult rat brain cortex. Identification of suramin as a direct inhibitor of adenylyl cyclase. Journal of Cellular and Molecular Medicine, 2005, 9, 940-952.	3.6	8
25	Increased baclofen-stimulated G protein coupling and deactivation in rat brain cortex during development. Developmental Brain Research, 2004, 151, 67-73.	1.7	5
26	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
27	Impaired noradrenaline-induced lipolysis in white fat of aP2-Ucp1 transgenic mice is associated with changes in G-protein levels. Biochemical Journal, 2002, 364, 369-376.	3.7	22
28	Micromachined Nanocalorimetric Sensor for Ultra-Low-Volume Cell-Based Assays. Analytical Chemistry, 2002, 74, 2190-2197.	6.5	75
29	Opposing changes of trimeric G protein levels during ontogenetic development of rat brain. Developmental Brain Research, 2002, 133, 57-67.	1.7	21
30	Ontogenetic development of the G protein-mediated adenylyl cyclase signalling in rat brain. Developmental Brain Research, 2002, 133, 69-75.	1.7	20
31	Membrane-bound and cytosolic forms of heterotrimeric G proteins in young and adult rat myocardium: Influence of neonatal hypo- and hyperthyroidism. Journal of Cellular Biochemistry, 2001, 82, 215-224.	2.6	16
32	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
33	The decrease in the short variant of gsalpha protein is associated with an increase in [3H]CGP12177 binding, [3H]ouabain binding and Na, K-ATPase activity in brown adipose tissue plasma membranes of cold-acclimated hamsters. Journal of Molecular Endocrinology, 1999, 22, 55-64.	2.5	6
34	Resolution and identification of Gq/G11alpha and Gialpha/Goalpha proteins in brown adipose tissue: effect of cold acclimation. Journal of Molecular Endocrinology, 1999, 23, 223-229.	2.5	7
35	G Proteins,Î²-Adrenoreceptors andÎ²-Adrenergic Responsiveness in Immature and Adult Rat Ventricular Myocardium: Influence of Neonatal Hypo- and Hyperthyroidism. Journal of Molecular and Cellular Cardiology, 1999, 31, 761-772.	1.9	46