

# Lenka Roubalova

## List of Publications by Year in descending order

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35  
papers

529  
citations

623734

14  
h-index

677142

22  
g-index

35  
all docs

35  
docs citations

35  
times ranked

585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromachined Nanocalorimetric Sensor for Ultra-Low-Volume Cell-Based Assays. <i>Analytical Chemistry</i> , 2002, 74, 2190-2197.	6.5	75
2	G Proteins, $\beta^2$ -Adrenoreceptors and $\beta^2$ -Adrenergic Responsiveness in Immature and Adult Rat Ventricular Myocardium: Influence of Neonatal Hypo- and Hyperthyroidism. <i>Journal of Molecular and Cellular Cardiology</i> , 1999, 31, 761-772.	1.9	46
3	14-3-3 protein interacts with and affects the structure of RGS domain of regulator of G protein signaling 3 (RGS3). <i>Journal of Structural Biology</i> , 2010, 170, 451-461.	2.8	34
4	Impaired noradrenaline-induced lipolysis in white fat of aP2-Ucp1 transgenic mice is associated with changes in G-protein levels. <i>Biochemical Journal</i> , 2002, 364, 369-376.	3.7	22
5	Opposing changes of trimeric G protein levels during ontogenetic development of rat brain. <i>Developmental Brain Research</i> , 2002, 133, 57-67.	1.7	21
6	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. <i>Journal of Proteomics</i> , 2016, 145, 11-23.	2.4	21
7	Ontogenetic development of the G protein-mediated adenylyl cyclase signalling in rat brain. <i>Developmental Brain Research</i> , 2002, 133, 69-75.	1.7	20
8	Fluorescence spectroscopy studies of HEK293 cells expressing DOR-Gi1± fusion protein; the effect of cholesterol depletion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2819-2829.	2.6	20
9	Proteomic analysis of post-nuclear supernatant fraction and percoll-purified membranes prepared from brain cortex of rats exposed to increasing doses of morphine. <i>Proteome Science</i> , 2014, 12, 11.	1.7	20
10	$\mu$ -Opioid receptors exhibit high efficiency when activating trimeric G proteins in membrane domains. <i>Journal of Neurochemistry</i> , 2003, 85, 34-49.	3.9	19
11	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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 324-332.	2.6	18
12	Membrane-bound and cytosolic forms of heterotrimeric G proteins in young and adult rat myocardium: Influence of neonatal hypo- and hyperthyroidism. <i>Journal of Cellular Biochemistry</i> , 2001, 82, 215-224.	2.6	16
13	TRH-receptor mobility and function in intact and cholesterol-depleted plasma membrane of HEK293 cells stably expressing TRH-R-eGFP. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 781-796.	2.6	16
14	Up-regulation of $\delta$ -, $\gamma$ - and $\kappa$ -opioid receptors in concanavalin A-stimulated rat spleen lymphocytes. <i>Journal of Neuroimmunology</i> , 2018, 321, 12-23.	2.3	14
15	Na <sup>+</sup> /K <sup>+</sup> -ATPase and lipid peroxidation in forebrain cortex and hippocampus of sleep-deprived rats treated with therapeutic lithium concentration for different periods of time. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 102, 109953.	4.8	14
16	Up-regulation of adenylylcyclases I and II induced by long-term adaptation of rats to morphine fades away 20days after morphine withdrawal. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 1220-1229.	2.4	13
17	Plasma membrane cholesterol level and agonist-induced internalization of $\delta$ -opioid receptors; colocalization study with intracellular membrane markers of Rab family. <i>Journal of Bioenergetics and Biomembranes</i> , 2016, 48, 375-396.	2.3	13
18	Differentiation of cultured brown adipocytes is associated with a selective increase in the short variant of Gs± protein. Evidence for higher functional activity of Gs±S. <i>Molecular and Cellular Endocrinology</i> , 2000, 167, 23-31.	3.2	12

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19	Disruption of the Plasma Membrane Integrity by Cholesterol Depletion Impairs Effectiveness of TRH Receptor-Mediated Signal Transduction via Gq/G11 $\alpha$ Proteins. <i>Journal of Receptor and Signal Transduction Research</i> , 2007, 27, 335-352.	2.5	12
20	High- and low-affinity sites for sodium in $\delta$ -OR-Gi1 $\alpha$ (Cys351-Ile351) fusion protein stably expressed in HEK293 cells; functional significance and correlation with biophysical state of plasma membrane. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014, 387, 487-502.	3.0	12
21	Protein alterations induced by long-term agonist treatment of HEK293 cells expressing thyrotropin-releasing hormone receptor and G $\alpha$ 11 $\alpha$ protein. <i>Journal of Cellular Biochemistry</i> , 2010, 109, 255-264.	2.6	11
22	Proteomic analysis of protein composition of rat hippocampus exposed to morphine for 10 days; comparison with animals after 20 days of morphine withdrawal. <i>PLoS ONE</i> , 2020, 15, e0231721.	2.5	10
23	Determination of $\delta$ -, $\mu$ - and $\kappa$ -opioid receptors in forebrain cortex of rats exposed to morphine for 10 days: Comparison with animals after 20 days of morphine withdrawal. <i>PLoS ONE</i> , 2017, 12, e0186797.	2.5	9
24	Modulation of adenylyl cyclase activity in young and adult rat brain cortex. Identification of suramin as a direct inhibitor of adenylyl cyclase. <i>Journal of Cellular and Molecular Medicine</i> , 2005, 9, 940-952.	3.6	8
25	Effect of therapeutic concentration of lithium on live HEK293 cells; increase of Na <sup>+</sup> /K <sup>+</sup> -ATPase, change of overall protein composition and alteration of surface layer of plasma membrane. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1099-1112.	2.4	8
26	Impact of three-month morphine withdrawal on rat brain cortex, hippocampus, striatum and cerebellum: proteomic and phosphoproteomic studies. <i>Neurochemistry International</i> , 2021, 144, 104975.	3.8	8
27	Resolution and identification of Gq/G11 $\alpha$ and G $\alpha$ 11 $\alpha$ /G $\alpha$ 11 $\alpha$ proteins in brown adipose tissue: effect of cold acclimation. <i>Journal of Molecular Endocrinology</i> , 1999, 23, 223-229.	2.5	7
28	The decrease in the short variant of G $\alpha$ 11 $\alpha$ protein is associated with an increase in [3H]CGP12177 binding, [3H]ouabain binding and Na <sup>+</sup> , K <sup>+</sup> -ATPase activity in brown adipose tissue plasma membranes of cold-acclimated hamsters. <i>Journal of Molecular Endocrinology</i> , 1999, 22, 55-64.	2.5	6
29	Increased baclofen-stimulated G protein coupling and deactivation in rat brain cortex during development. <i>Developmental Brain Research</i> , 2004, 151, 67-73.	1.7	5
30	Induction of oxidative stress by long-term treatment of live HEK293 cells with therapeutic concentration of lithium is associated with down-regulation of $\delta$ -opioid receptor amount and function. <i>Biochemical Pharmacology</i> , 2018, 154, 452-463.	4.4	5
31	High Efficacy but Low Potency of $\delta$ -Opioid Receptor-G Protein Coupling in Brij-58-Treated, Low-Density Plasma Membrane Fragments. <i>PLoS ONE</i> , 2015, 10, e0135664.	2.5	5
32	Na <sup>+</sup> /K <sup>+</sup> -ATPase level and products of lipid peroxidation in live cells treated with therapeutic lithium for different periods in time (1, 7, and 28 days); studies of Jurkat and HEK293 cells. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2019, 392, 785-799.	3.0	4
33	Tissue-specific protective properties of lithium: comparison of rat kidney, erythrocytes and brain. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2021, 394, 955-965.	3.0	3
34	Therapeutic lithium alters polar head-group region of lipid bilayer and prevents lipid peroxidation in forebrain cortex of sleep-deprived rats. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158962.	2.4	2
35	The high-resolution proteomic analysis of protein composition of rat spleen lymphocytes stimulated by Concanavalin A; a comparison with morphine-treated cells. <i>Journal of Neuroimmunology</i> , 2020, 341, 577191.	2.3	0