

# Tomasz Boczek

## List of Publications by Citations

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38

papers

379

citations

10

h-index

18

g-index

43

ext. papers

491

ext. citations

4.8

avg, IF

3.4

L-index

#	Paper	IF	Citations
38	Protein crystallization by surface entropy reduction: optimization of the SER strategy. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2007</b> , 63, 636-45		119
37	Structure and function of Bacillus subtilis YphP, a prokaryotic disulfide isomerase with a CXC catalytic motif. <i>Biochemistry</i> , <b>2009</b> , 48, 8664-71	3.2	35
36	Downregulation of PMCA2 or PMCA3 reorganizes Ca(2+) handling systems in differentiating PC12 cells. <i>Cell Calcium</i> , <b>2012</b> , 52, 433-44	4	22
35	Glutamate Deregulation in Ketamine-Induced Psychosis-A Potential Role of PSD95, NMDA Receptor and PMCA Interaction. <i>Frontiers in Cellular Neuroscience</i> , <b>2017</b> , 11, 181	6.1	19
34	Regulation of Neuronal Survival and Axon Growth by a Perinuclear cAMP Compartment. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 5466-5480	6.6	16
33	Plasma membrane Ca <sup>2+</sup> -ATPase isoforms composition regulates cellular pH homeostasis in differentiating PC12 cells in a manner dependent on cytosolic Ca <sup>2+</sup> elevations. <i>PLoS ONE</i> , <b>2014</b> , 9, e102352	3.7	16
32	Regulation of GAP43/calmodulin complex formation via calcineurin-dependent mechanism in differentiated PC12 cells with altered PMCA isoforms composition. <i>Molecular and Cellular Biochemistry</i> , <b>2015</b> , 407, 251-62	4.2	15
31	Gene expression pattern in PC12 cells with reduced PMCA2 or PMCA3 isoform: selective up-regulation of calmodulin and neuromodulin. <i>Molecular and Cellular Biochemistry</i> , <b>2012</b> , 360, 89-102	4.2	11
30	Regional brain dysregulation of Ca(2+)-handling systems in ketamine-induced rat model of experimental psychosis. <i>Cell and Tissue Research</i> , <b>2016</b> , 363, 609-20	4.2	10
29	Region-specific effects of repeated ketamine administration on the presynaptic GABAergic neurochemistry in rat brain. <i>Neurochemistry International</i> , <b>2015</b> , 91, 13-25	4.4	10
28	Cross talk among PMCA, calcineurin and NFAT transcription factors in control of calmodulin gene expression in differentiating PC12 cells. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2017</b> , 1860, 502-515	6	9
27	Silencing of plasma membrane Ca <sup>2+</sup> -ATPase isoforms 2 and 3 impairs energy metabolism in differentiating PC12 cells. <i>BioMed Research International</i> , <b>2014</b> , 2014, 735106	3	7
26	Downregulation of microsomal glutathione-S-transferase 1 modulates protective mechanisms in differentiated PC12 cells. <i>Journal of Physiology and Biochemistry</i> , <b>2014</b> , 70, 375-83	5	7
25	Functional characteristic of PC12 cells with reduced microsomal glutathione transferase 1.. <i>Acta Biochimica Polonica</i> , <b>2010</b> , 57,	2	7
24	Plasma membrane Ca(2+)-ATPase is a novel target for ketamine action. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 465, 312-7	3.4	6
23	MTP18 is a Novel Regulator of Mitochondrial Fission in CNS Neuron Development, Axonal Growth, and Injury Responses. <i>Scientific Reports</i> , <b>2019</b> , 9, 10669	4.9	6
22	Ketamine and Calcium Signaling-A Crosstalk for Neuronal Physiology and Pathology. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6

21	The Puzzling Role of Neuron-Specific PMCA Isoforms in the Aging Process. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	6
20	Abnormal changes in voltage-gated sodium channels subtypes Na1.1, Na1.2, Na1.3, Na1.6 and CaM/CaMKII pathway in low-grade astrocytoma. <i>Neuroscience Letters</i> , <b>2018</b> , 674, 148-155	3.3	5
19	Calcium-engaged Mechanisms of Nongenomic Action of Neurosteroids. <i>Current Neuropharmacology</i> , <b>2017</b> , 15, 1174-1191	7.6	5
18	The changes of serum zinc, copper, and selenium levels in epileptic patients: a systematic review and meta-analysis. <i>Expert Review of Clinical Pharmacology</i> , <b>2020</b> , 13, 1047-1058	3.8	4
17	The Role of G Protein-Coupled Receptors (GPCRs) and Calcium Signaling in Schizophrenia. Focus on GPCRs Activated by Neurotransmitters and Chemokines. <i>Cells</i> , <b>2021</b> , 10,	7.9	4
16	Cell death modulation by transient receptor potential melastatin channels TRPM2 and TRPM7 and their underlying molecular mechanisms. <i>Biochemical Pharmacology</i> , <b>2021</b> , 190, 114664	6	4
15	Functional characteristic of PC12 cells with reduced microsomal glutathione transferase 1. <i>Acta Biochimica Polonica</i> , <b>2010</b> , 57, 589-96	2	4
14	Calcium Dyshomeostasis Alters CCL5 Signaling in Differentiated PC12 Cells. <i>BioMed Research International</i> , <b>2019</b> , 2019, 9616248	3	3
13	GABA-shunt enzymes activity in GH3 cells with reduced level of PMCA2 or PMCA3 isoform. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 411, 815-20	3.4	3
12	Compartmentalization of local cAMP signaling in neuronal growth and survival. <i>Neural Regeneration Research</i> , <b>2020</b> , 15, 453-454	4.5	3
11	Calcium as a Trojan horse in mental diseases-The role of PMCA and PMCA-interacting proteins in bipolar disorder and schizophrenia. <i>Neuroscience Letters</i> , <b>2018</b> , 663, 48-54	3.3	3
10	The Effect of Ca, Lobe-Specificity, and CaMKII on CaM Binding to Na1.1. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	3
9	Crosstalk among Calcium ATPases: PMCA, SERCA and SPCA in Mental Diseases. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
8	Receptor-Dependent and Independent Regulation of Voltage-Gated Ca Channels and Ca-Permeable Channels by Endocannabinoids in the Brain. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
7	Circulating glutathione peroxidase and superoxide dismutase levels in patients with epilepsy: A meta-analysis. <i>Seizure: the Journal of the British Epilepsy Association</i> , <b>2021</b> , 91, 278-286	3.2	2
6	Hexachloronaphthalene Induces Mitochondrial-Dependent Neurotoxicity via a Mechanism of Enhanced Production of Reactive Oxygen Species. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 2479234	6.7	1
5	cAMP at Perinuclear mAKAP1 Signalosomes Is Regulated by Local Ca Signaling in Primary Hippocampal Neurons. <i>ENeuro</i> , <b>2021</b> , 8,	3.9	1
4	Hexachloronaphthalene (HxCN) impairs the dopamine pathway in an in vitro model of PC12 cells. <i>Chemosphere</i> , <b>2022</b> , 287, 132284	8.4	1

- 3 Adaptation of microsomal glutathione transferase 1 in PC12 cells with modified PMCA isoforms composition. *Indian Journal of Biochemistry and Biophysics*, **2010**, 47, 265-71 1
- 2 Calcium-/Calmodulin-Dependent Protein Kinase II (CaMKII) Inhibition Induces Learning and Memory Impairment and Apoptosis.. *Oxidative Medicine and Cellular Longevity*, **2021**, 2021, 4635054 6.7 1
- 1 PMCA3: A Mysterious Isoform of Calcium Pump **2016**, 47-62