Toni Petan

List of Publications by Year
in descending order

35	1,182	516681 16	395678 33
papers	citations	h-index	g-index

37	37	37	1745
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lipid Droplets in Cancer: Guardians of Fat in a Stressful World. Molecules, 2018, 23, 1941.	3.8	240
2	Lipid droplets induced by secreted phospholipase A2 and unsaturated fatty acids protect breast cancer cells from nutrient and lipotoxic stress. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 247-265.	2.4	99
3	A twist of FATe: Lipid droplets and inflammatory lipid mediators. Biochimie, 2020, 169, 69-87.	2.6	90
4	Lipid Droplets and the Management of Cellular Stress. Yale Journal of Biology and Medicine, 2019, 92, 435-452.	0.2	89
5	Secreted phospholipases A2 in cancer: Diverse mechanisms of action. Biochimie, 2014, 107, 114-123.	2.6	80
6	Group X secreted phospholipase A2 induces lipid droplet formation and prolongs breast cancer cell survival. Molecular Cancer, 2013, 12, 111.	19.2	73
7	Lipid Droplets in Cancer. Reviews of Physiology, Biochemistry and Pharmacology, 2020, , 53-86.	1.6	58
8	Restoration of Enzymatic Activity in a Ser-49 Phospholipase A2 Homologue Decreases Its Ca2+-Independent Membrane-Damaging Activity and Increases Its Toxicity. Biochemistry, 2007, 46, 12795-12809.	2.5	44
9	Astrocytes in stress accumulate lipid droplets. Glia, 2021, 69, 1540-1562.	4.9	42
10	Ammodytoxins, Potent Presynaptic Neurotoxins, Are Also Highly Efficient Phospholipase A2Enzymesâ€. Biochemistry, 2005, 44, 12535-12545.	2.5	34
11	Secreted phospholipases A2 are differentially expressed and epigenetically silenced in human breast cancer cells. Biochemical and Biophysical Research Communications, 2014, 445, 230-235.	2.1	31
12	Phenylalanine-24 in the N-terminal region of ammodytoxins is important for both enzymic activity and presynaptic toxicity. Biochemical Journal, 2002, 363, 353-358.	3.7	27
13	Harmful at non-cytotoxic concentrations: SiO₂-SPIONs affect surfactant metabolism and lamellar body biogenesis in A549 human alveolar epithelial cells. Nanotoxicology, 2017, 11, 419-429.	3.0	26
14	Differential inhibition of LINE1 and LINE2 retrotransposition by vertebrate AID/APOBEC proteins. Retrovirology, 2013, 10, 156.	2.0	25
15	Mapping the structural determinants of presynaptic neurotoxicity of snake venom phospholipases A2. Toxicon, 2008, 51, 1520-1529.	1.6	24
16	Phenylalanine-24 in the N-terminal region of ammodytoxins is important for both enzymic activity and presynaptic toxicity. Biochemical Journal, 2002, 363, 353.	3.7	20
17	Calmodulin Is a Nonessential Activator of Secretory Phospholipase A₂. Biochemistry, 2009, 48, 11319-11328.	2.5	17
18	Engineering recombinant Lactococcus lactis as a delivery vehicle for BPC-157 peptide with antioxidant activities. Applied Microbiology and Biotechnology, 2018, 102, 10103-10117.	3.6	16

#	Article	IF	Citations
19	The neurotoxic secreted phospholipase A2 from the Vipera a. ammodytes venom targets cytochrome c oxidase in neuronal mitochondria. Scientific Reports, 2019, 9, 283.	3.3	16
20	Synergy between 15-lipoxygenase and secreted PLA2promotes inflammation by formation of TLR4 agonists from extracellular vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25679-25689.	7.1	15
21	A Neurotoxic Secretory Phospholipase A₂ Induces Apoptosis in Motoneuronâ€like Cells. Annals of the New York Academy of Sciences, 2009, 1152, 215-224.	3.8	14
22	Structural basis of the significant calmodulin-induced increase in the enzymatic activity of secreted phospholipases A2. Protein Engineering, Design and Selection, 2010, 23, 479-487.	2.1	14
23	A Neurotoxic Phospholipase A2 Impairs Yeast Amphiphysin Activity and Reduces Endocytosis. PLoS ONE, 2012, 7, e40931.	2.5	11
24	Neurotoxic phospholipase A₂toxicity model. Communicative and Integrative Biology, 2013, 6, e23600.	1.4	11
25	Basic amino acid residues in the Î²-structure region contribute, but not critically, to presynaptic neurotoxicity of ammodytoxin A. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1702, 217-225.	2.3	10
26	Lipid Droplet Formation in HeLa Cervical Cancer Cells Depends on Cell Density and the Concentration of Exogenous Unsaturated Fatty Acids. Acta Chimica Slovenica, 2017, 64, 549-554.	0.6	10
27	Recombinant human erythropoietin alters gene expression and stimulates proliferation of MCF-7 breast cancer cells. Radiology and Oncology, 2013, 47, 382-389.	1.7	8
28	Lipidomic data on lipid droplet triglyceride remodelling associated with protection of breast cancer cells from lipotoxic stress. Data in Brief, 2018, 18, 234-240.	1.0	7
29	Phospholipase A2 group IIA is elevated in endometriomas but not in peritoneal fluid and serum of ovarian endometriosis patients. Gynecological Endocrinology, 2015, 31, 214-218.	1.7	6
30	Oleic Acid Protects Endothelial Cells from Silica-Coated Superparamagnetic Iron Oxide Nanoparticles (SPIONs)-Induced Oxidative Stress and Cell Death. International Journal of Molecular Sciences, 2022, 23, 6972.	4.1	6
31	Ammodytoxins efficiently release arachidonic acid and induce apoptosis in a motoneuronal cell line in an enzymatic activity-dependent manner. NeuroToxicology, 2013, 35, 91-100.	3.0	4
32	Disintegrins from the Venom of Vipera ammodytes ammodytes Efficiently Inhibit Migration of Breast Cancer Cells. Acta Chimica Slovenica, 2017, 64, 555-559.	0.6	4
33	Half is enough: Oxidized lysophospholipids as novel bioactive molecules. Free Radical Biology and Medicine, 2022, 188, 351-362.	2.9	4
34	Is iPLA2Î² a Novel Target for the Development of New Strategies to Alleviate Inflammatory Bowel Disease?. Digestive Diseases and Sciences, 2015, 60, 3504-3506.	2.3	3
35	Structure-function relationship studies of ammodytoxins and ammodytins by protein engineering. Acta Chimica Slovenica, 2011, 58, 660-70.	0.6	3