Petr Mlejnek

List of Publications by Citations

44 papers	586 citations	14 h-index	22 g-index
50 ext. papers	673 ext. citations	4.5 avg, IF	3.99 L-index

#	Paper	IF	Citations
44	Activation of caspase-like proteases and induction of apoptosis by isopentenyladenosine in tobacco BY-2 cells. *Planta*, **2002**, 215, 158-66	4.7	85
43	Intracellular phosphorylation of benzyladenosine is related to apoptosis induction in tobacco BY-2 cells. *Plant, Cell and Environment*, **2003**, 26, 1723-1735	8.4	41
42	Resistance to daunorubicin, imatinib, or nilotinib depends on expression levels of ABCB1 and ABCG2 in human leukemia cells. *Chemico-Biological Interactions*, **2014**, 219, 203-10	5	40
41	Apoptosis induced by N6-substituted derivatives of adenosine is related to intracellular accumulation of corresponding mononucleotides in HL-60 cells. *Toxicology in Vitro*, **2005**, 19, 985-90	3.6	37
40	Caspase inhibition and N6-benzyladenosine-induced apoptosis in HL-60 cells. *Journal of Cellular Biochemistry*, **2001**, 83, 678-89	4.7	26
39	Induction of apoptosis in HL-60 cells by N6-benzyladenosine **2000**, 77, 6-17		26
38	Serine protease inhibitors N-alpha-tosyl-L-lysinyl-chloromethylketone (TLCK) and N-tosyl-L-phenylalaninyl-chloromethylketone (TPCK) are potent inhibitors of activated caspase proteases. *Journal of Cellular Biochemistry*, **2008**, 103, 1646-56	4.7	25
37	Effects of three epoxides--ethylene oxide, propylene oxide and epichlorohydrin--on cell cycle progression and cell death in human diploid fibroblasts. *Chemico-Biological Interactions*, **1999**, 117, 219-39	5	23
36	Can P-glycoprotein mediate resistance to nilotinib in human leukaemia cells?. *Pharmacological Research*, **2013**, 67, 79-83	10.2	21
35	A non-radioactive assay for precise determination of intracellular levels of imatinib and its main metabolite in Bcr-Abl positive cells. *Talanta*, **2011**, 83, 1466-71	6.2	18
34	Interactions of N-desmethyl imatinib, an active metabolite of imatinib, with P-glycoprotein in human leukemia cells. *Annals of Hematology*, **2011**, 90, 837-42	3	18
33	Intracellular conversion of cytokinin bases into corresponding mononucleotides is related to cell death induction in tobacco BY-2 cells. *Plant Science*, **2005**, 168, 389-395	5.3	17
32	P-glycoprotein mediates resistance to A3 adenosine receptor agonist 2-chloro-N6-(3-iodobenzyl)-adenosine-5′-n-methyluronamide in human leukemia cells. *Journal of Cellular Physiology*, **2012**, 227, 676-85	7	16
31	Reversal of ABCB1 mediated efflux by imatinib and nilotinib in cells expressing various transporter levels. *Chemico-Biological Interactions*, **2017**, 273, 171-179	5	15
30	Assay for determination of daunorubicin in cancer cells with multidrug resistance phenotype. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2011**, 879, 1875-80	3.2	13
29	Induction of apoptosis by A3 adenosine receptor agonist N-(3-iodobenzyl)-adenosine-5′-N-methylcarboxamide in human leukaemia cells: a possible involvement of intracellular mechanism. *Acta Physiologica*, **2010**, 199, 171-9	5.6	13
28	Loss of mitochondrial transmembrane potential and glutathione depletion are not sufficient to account for induction of apoptosis by carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone in human leukemia K562 cells. *Chemico-Biological Interactions*, **2015**, 239, 100-10	5	12

27	Can the assessment of ABCB1 gene expression predict its function in vitro?. *European Journal of Haematology*, **2015**, 95, 150-9	3.8	11
26	Caspase-3 activity and carbonyl cyanide m-chlorophenylhydrazone-induced apoptosis in HL-60. *ATLA Alternatives To Laboratory Animals*, **2001**, 29, 243-9	2.1	11
25	Apoptosis Induced by the Curcumin Analogue EF-24 Is Neither Mediated by Oxidative Stress-Related Mechanisms nor Affected by Expression of Main Drug Transporters ABCB1 and ABCG2 in Human Leukemia Cells. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	10
24	Cytokinin-induced cell death is associated with elevated expression of alternative oxidase in tobacco BY-2 cells. *Protoplasma*, **2013**, 250, 1195-202	3.4	9
23	Effects of synthetic A3 adenosine receptor agonists on cell proliferation and viability are receptor independent at micromolar concentrations. *Journal of Physiology and Biochemistry*, **2013**, 69, 405-17	5	8
22	Cyclosporin A sensitises Bcr-Abl positive cells to imatinib mesylate independently of P-glycoprotein expression. *Toxicology in Vitro*, **2009**, 23, 1482-90	3.6	8
21	N-acetylcysteine dual and antagonistic effect on cadmium cytotoxicity in human leukemia cells. *Environmental Toxicology and Pharmacology*, **2019**, 71, 103213	5.8	7
20	The Lysosomal Sequestration of Tyrosine Kinase Inhibitors and Drug Resistance. *Biomolecules*, **2019** , 9,	5.9	7
19	Partial glutathione reductase deficiency as a cause of diverse clinical manifestations in a family with unstable hemoglobin (Hemoglobin Han□63(E7) His-Asn). *Blood Cells, Molecules, and Diseases*, **2010**, 45, 219-22	2.1	7
18	Lysosomal Fusion: An Efficient Mechanism Increasing Their Sequestration Capacity for Weak Base Drugs without Apparent Lysosomal Biogenesis. *Biomolecules*, **2020**, 10,	5.9	7
17	N-acetylcysteine prevents the geldanamycin cytotoxicity by forming geldanamycin-N-acetylcysteine adduct. *Chemico-Biological Interactions*, **2014**, 220, 248-54	5	6
16	Cyclosporin A potentiates the cytotoxic effects of methyl methanesulphonate in HL-60 and K562 cells. *ATLA Alternatives To Laboratory Animals*, **2007**, 35, 79-85	2.1	6
15	Halogenation of N□benzyladenosine decreases its cytotoxicity in human leukemia cells. *Toxicology in Vitro*, **2010**, 24, 2079-83	3.6	5
14	Serine protease inhibitors N-alpha-tosyl-L-lysinyl-chloromethylketone (TLCK) and N-tosyl-L-phenylalaninyl-chloromethylketone (TPCK) do not inhibit caspase-3 and caspase-7 processing in cells exposed to pro-apoptotic inducing stimuli. *Journal of Cellular Biochemistry*, **2008**, 105, 1501-6	4.7	5
13	Clinically relevant interactions of anti-apoptotic Bcl-2 protein inhibitors with ABC transporters. *Die Pharmazie*, **2017**, 72, 751-758	1.5	5
12	The broad-spectrum caspase inhibitor Boc-Asp-CMK induces cell death in human leukaemia cells. *Toxicology in Vitro*, **2008**, 22, 1356-60	3.6	4
11	Can application of serine protease inhibitors TPCK and TLCK provide evidence for possible involvement of serine protease Omi/HtrA2 in imatinib mesylate-induced cell death of BCR-ABL-positive human leukemia cells?. *Leukemia*, **2005**, 19, 1085-7	10.7	4
10	Mifepristone potentiates etoposide toxicity in Hep G2 cells by modulating drug transport. *Toxicology in Vitro*, **2019**, 54, 33-40	3.6	4

9	Complex repair kinetics of DNA strand breaks induced by gamma-rays of UV radiation in Ehrlich ascites tumour cells. *Radiation and Environmental Biophysics*, **1996**, 35, 171-7	2	3
8	Drug resistance of cancer cells is crucially affected by expression levels of ABC-transporters. *BioDiscovery*,20, e11211		3
7	Can image analysis provide evidence that lysosomal sequestration mediates daunorubicin resistance?. *Chemico-Biological Interactions*, **2020**, 327, 109138	5	2
6	Adenine-induced arrest of mammalian cells in early S-phase is related to the prevention of DNA synthesis inhibition caused by gamma-irradiation. *International Journal of Radiation Biology*, **1997**, 71, 505-13	2.9	2
5	Induction of apoptosis in HL-60 cells by N(6)-benzyladenosine. *Journal of Cellular Biochemistry*, **2000**, 77, 6-17	4.7	2
4	Estimation of ABCB1 concentration in plasma membrane. *Journal of Cellular Biochemistry*, **2019**, 120, 18406-18414	4.7	1
3	Changes in expression of lysosomal membrane proteins in leucocytes of cancer patients treated with tyrosine kinase inhibitors. *Cancer Chemotherapy and Pharmacology*, **2021**, 88, 89-98	3.5	1
2	Antioxidant Status of Red Blood Cells Is a Modifying Factor of Clinical Manifestation of Unstable Hemoglobin Variant Hana [□□ 63 (E7) His-Asn)].. *Blood*, **2006**, 108, 3789-3789	2.2	
1	Protective effect of adenine on DNA synthesis in irradiated Ehrlich ascites tumor cells. *Radiation Research*, **1997**, 147, 477-83	3.1	