Albert Breier

List of Publications by Year
in descending order

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120	1,822	331642	330122
papers	citations	21 h-index	37 g-index

120	120	120	2067
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Different mechanisms of drug resistance to hypomethylating agents in the treatment of myelodysplastic syndromes and acute myeloid leukemia. Drug Resistance Updates, 2022, 61, 100805.	14.4	17
2	The Roles of microRNAs in Cancer Multidrug Resistance. Cancers, 2022, 14, 1090.	3.7	22
3	Sulphoraphane Affinity-Based Chromatography for the Purification of Myrosinase from Lepidium sativum Seeds. Biomolecules, 2022, 12, 406.	4.0	5
4	Changes in Apoptotic Pathways in MOLM-13 Cell Lines after Induction of Resistance to Hypomethylating Agents. International Journal of Molecular Sciences, 2021, 22, 2076.	4.1	5
5	Optimisation of Recombinant Myrosinase Production in Pichia pastoris. International Journal of Molecular Sciences, 2021, 22, 3677.	4.1	11
6	Insight into Bortezomib Focusing on Its Efficacy against P-gp-Positive MDR Leukemia Cells. International Journal of Molecular Sciences, 2021, 22, 5504.	4.1	2
7	Development of Multidrug Resistance in Acute Myeloid Leukemia Is Associated with Alterations of the LPHN1/GAL-9/TIM-3 Signaling Pathway. Cancers, 2021, 13, 3629.	3.7	9
8	Cell Death Effects Induced by Sulforaphane and Allyl Isothiocyanate on P-Glycoprotein Positive and Negative Variants in L1210 Cells. Molecules, 2020, 25, 2093.	3.8	7
9	Development of Resistance to Endoplasmic Reticulum Stress-Inducing Agents in Mouse Leukemic L1210 Cells. Molecules, 2020, 25, 2517.	3.8	6
10	Overexpression of GRP78/BiP in P-Glycoprotein-Positive L1210 Cells is Responsible for Altered Response of Cells to Tunicamycin as a Stressor of the Endoplasmic Reticulum. Cells, 2020, 9, 890.	4.1	9
11	Screening of Phenanthroquinolizidine Alkaloid Derivatives for Inducing Cell Death of L1210 Leukemia Cells with Negative and Positive P-glycoprotein Expression. Molecules, 2019, 24, 2127.	3.8	5
12	Overexpression of the ABCB1 drug transporter in acute myeloid leukemia cells is associated with downregulation of latrophilin-1. General Physiology and Biophysics, 2018, 37, 353-357.	0.9	5
13	Interplay between P-Glycoprotein Expression and Resistance to Endoplasmic Reticulum Stressors. Molecules, 2018, 23, 337.	3.8	32
14	Triorganotin Derivatives Induce Cell Death Effects on L1210 Leukemia Cells at Submicromolar Concentrations Independently of P-glycoprotein Expression. Molecules, 2018, 23, 1053.	3.8	8
15	Detection of the Mitochondrial Membrane Potential by the Cationic Dye JC-1 in L1210 Cells with Massive Overexpression of the Plasma Membrane ABCB1 Drug Transporter. International Journal of Molecular Sciences, 2018, 19, 1985.	4.1	100
16	L1210 Cells Overexpressing ABCB1 Drug Transporters Are Resistant to Inhibitors of the N- and O-glycosylation of Proteins. Molecules, 2017, 22, 1104.	3.8	6
17	The expression of P-gp in leukemia cells is associated with cross-resistance to protein N-glycosylation inhibitor tunicamycin. General Physiology and Biophysics, 2016, 35, 497-510.	0.9	12
18	The expression of P-glycoprotein in leukemia cells is associated with the upregulated expression of nestin, a class 6 filament protein. Leukemia Research, 2016, 48, 32-39.	0.8	8

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19	A decrease in cellular microRNA-27a content is involved in azacytidine-induced P-glycoprotein expression in SKM-1 cells. Toxicology in Vitro, 2016, 36, 81-88.	2.4	6
20	Acute myeloid leukemia cells MOLM-13 and SKM-1 established for resistance by azacytidine are crossresistant to P-glycoprotein substrates. Toxicology in Vitro, 2015, 29, 1405-1415.	2.4	16
21	Selection of resistant acute myeloid leukemia SKM-1 and MOLM-13 cells by vincristine-, mitoxantrone- and lenalidomide-induced upregulation of P-glycoprotein activity and downregulation of CD33 cell surface exposure. European Journal of Pharmaceutical Sciences, 2015, 77, 29-39.	4.0	17
22	Molecular changes induced by repeated restraint stress in the heart: the effect of oxytocin receptor antagonist atosiban. Canadian Journal of Physiology and Pharmacology, 2015, 93, 827-834.	1.4	6
23	Reduced UDP-glucose Levels Are Associated with P-glycoprotein Over-expression in L1210 Cells and Limit Glucosylceramide Synthase Activity. Anticancer Research, 2015, 35, 2627-34.	1.1	5
24	Lenalidomide treatment induced the normalization of marker protein levels in blood plasma of patients with 5q-myelodysplastic syndrome. General Physiology and Biophysics, 2015, 34, 399-406.	0.9	3
25	Vincristine-induced expression ofâ€¯P-glycoprotein in MOLM-13 and SKM-1 acute myeloid leukemia cell lines is associated with coexpression ofâ€¯nestin transcript. General Physiology and Biophysics, 2014, 33, 425-431.	0.9	9
26	Effect of 9-cis retinoic acid and all-trans retinoic acid in combination with verapamil on P-glycoprotein expression in L1210 cells. Neoplasma, 2014, 62, 553-565.	1.6	15
27	Lectin detection of cell surface saccharides remodeling induced by development of P-glycoprotein mediated multidrug resistance phenotype in L1210 leukemia cells. Acta Chimica Slovaca, 2014, 7, 52-56.	0.8	2
28	New Insight into P-Glycoprotein as a Drug Target. Anti-Cancer Agents in Medicinal Chemistry, 2013, 13, 159-170.	1.7	135
29	New insight into p-glycoprotein as a drug target. Anti-Cancer Agents in Medicinal Chemistry, 2013, 13, 159-70.	1.7	65
30	Detection of Glycomic Alterations Induced by Overexpression of P-Glycoprotein on the Surfaces of L1210 Cells Using Sialic Acid Binding Lectins. International Journal of Molecular Sciences, 2012, 13, 15177-15192.	4.1	11
31	Potentiation of Anticancer Drugs: Effects of Pentoxifylline on Neoplastic Cells. International Journal of Molecular Sciences, 2012, 13, 369-382.	4.1	26
32	P-glycoprotein depresses cisplatin sensitivity in L1210 cells by inhibiting cisplatin-induced caspase-3 activation. Toxicology in Vitro, 2012, 26, 435-444.	2.4	55
33	New Insight into P-Glycoprotein as a Drug Target. Anti-Cancer Agents in Medicinal Chemistry, 2012, 13, 159-170.	1.7	10
34	Î±2 integrin as regulator of metastatic potential. Acta Pharmacologica Sinica, 2011, 32, 279-279.	6.1	0
35	Tunicamycin Depresses P-Glycoprotein Glycosylation Without an Effect on Its Membrane Localization and Drug Efflux Activity in L1210 Cells. International Journal of Molecular Sciences, 2011, 12, 7772-7784.	4.1	33
36	Effect of thapsigargin on P-glycoprotein-negative and P-glycoprotein-positive L1210 mouse leukaemia cells. General Physiology and Biophysics, 2010, 29, 396-401.	0.9	8

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37	Why the xanthine derivatives are used to study of P-glycoprotein-mediated multidrug resistance in L1210/VCR line cells. General Physiology and Biophysics, 2010, 29, 215-221.	0.9	0
38	Acute treatment with polyphenol quercetin improves postischemic recovery of isolated perfused rat hearts after global ischemia. Canadian Journal of Physiology and Pharmacology, 2010, 88, 465-471.	1.4	36
39	The presence of P-glycoprotein in L1210 cells directly induces down-regulation of cell surface saccharide targets of concanavalin A. Anticancer Research, 2010, 30, 3661-8.	1.1	21
40	Effect of quercetin on kinetic properties of renal Na,K-ATPase in normotensive and hypertensive rats. Journal of Physiology and Pharmacology, 2010, 61, 593-8.	1.1	11
41	Vincristine-Induced Overexpression of P-Glycoprotein in L1210 Cells Is Associated with Remodeling of Cell Surface Saccharides. Journal of Proteome Research, 2009, 8, 513-520.	3.7	20
42	Multidrug resistant P-glycoprotein positive L1210/VCR cells are also cross-resistant to cisplatin via a mechanism distinct from P-glycoprotein-mediated drug efflux activity. General Physiology and Biophysics, 2009, 28, 391-403.	0.9	13
43	Membrane transport and apoptosis-related proteins in radiation-associated acute myeloid leukemia following the Chornobyl accident. General Physiology and Biophysics, 2009, 28, 63-69.	0.9	0
44	Does any relationship exist between P-glycoprotein-mediated multidrug resistance and intracellular calcium homeostasis. General Physiology and Biophysics, 2009, 28 Spec No Focus, F89-95.	0.9	25
45	H2S and HSâ¯ donor NaHS releases nitric oxide from nitrosothiols, metal nitrosyl complex, brain homogenate and murine L1210 leukaemia cells. Pflugers Archiv European Journal of Physiology, 2008, 457, 271-279.	2.8	77
46	Combined treatment of P-gp-positive L1210/VCR cells by verapamil and all-trans retinoic acid induces down-regulation of P-glycoprotein expression and transport activity. Toxicology in Vitro, 2008, 22, 96-105.	2.4	19
47	Overexpression of P-glycoprotein in L1210/VCR cells is associated with changes in several endoplasmic reticulum proteins that may be partially responsible for the lack of thapsigargin sensitivity. General Physiology and Biophysics, 2008, 27, 211-21.	0.9	10
48	Modulation of expression of Na+/Ca2+exchanger in heart of rat and mouse under stress. Acta Physiologica, 2007, 190, 127-136.	3.8	15
49	Inhibitory effect of DIDS, NPPB, and phloretin on intracellular chloride channels. Pflugers Archiv European Journal of Physiology, 2007, 455, 349-357.	2.8	38
50	L1210 cells cultivated under the selection pressure of doxorubicin or vincristine express common mechanisms of multidrug resistance based on the overexpression of P-glycoprotein. Toxicology in Vitro, 2006, 20, 1560-1568.	2.4	14
51	LY294,002, a specific inhibitor of PI3K/Akt kinase pathway, antagonizes P-glycoprotein-mediated multidrug resistance. European Journal of Pharmaceutical Sciences, 2006, 29, 426-434.	4.0	75
52	Structural differences between sensitive and resistant L1210 cells. General Physiology and Biophysics, 2006, 25, 427-38.	0.9	4
53	Inhibition of (Na(+)/K(+))-ATPase by Cibacron Blue 3G-A and its analogues. General Physiology and Biophysics, 2006, 25, 439-53.	0.9	4
54	P-Glycoprotein - Implications of Metabolism of Neoplastic Cells and Cancer Therapy. Current Cancer Drug Targets, 2005, 5, 457-468.	1.6	105

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55	Expression of P-glycoprotein in L1210 cells is linked with rise in sensitivity to Ca2+. Biochemical and Biophysical Research Communications, 2005, 335, 777-784.	2.1	18
56	Prolongation of pentoxifylline aliphatic side chain positively affects the reversal of P-glycoprotein-mediated multidrug resistance in L1210/VCR line cells. General Physiology and Biophysics, 2005, 24, 461-6.	0.9	1
57	Reversal of P-glycoprotein mediated vincristine resistance of L1210/VCR cells by analogues of pentoxifylline. European Journal of Pharmaceutical Sciences, 2004, 21, 283-293.	4.0	26
58	Functional fluo-3/AM assay on P-glycoprotein transport activity in L1210/VCR cells by confocal microscopy. General Physiology and Biophysics, 2004, 23, 357-66.	0.9	13
59	P-glycoprotein-mediated multidrug resistance phenotype of L1210/VCR cells is associated with decreases of oligo- and/or polysaccharide contents. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2003, 1639, 213-224.	3.8	16
60	Hypoxia increases cell death in multidrug-resistant leukemia cells. Differences in viability and ultrastructure between sensitive and multidrug-resistant L1210 mouse leukemic cells under hypoxia. General Physiology and Biophysics, 2003, 22, 265-73.	0.9	2
61	Proteins released from liver after ischaemia induced an elevation of heart resistance against ischaemia-reperfusion injury: 1. Beneficial effect of protein fraction isolated from perfusate after ischaemia and reperfusion of liver. General Physiology and Biophysics, 2003, 22, 567-77.	0.9	4
62	Pentoxifylline influences drug transport activity of P-glycoprotein and decreases mdrl gene expression in multidrug resistant mouse leukemic L1210/VCR cells. General Physiology and Biophysics, 2002, 21, 103-9.	0.9	5
63	Carbonyl group of aliphatic side chain of pentoxifylline does not play role for P-glycoprotein antagonizing effect of pentoxifylline. General Physiology and Biophysics, 2002, 21, 471-8.	0.9	1
64	SB203580, a specific inhibitor of p38-MAPK pathway, is a new reversal agent of P-glycoprotein-mediated multidrug resistance. European Journal of Pharmaceutical Sciences, 2001, 14, 29-36.	4.0	122
65	Drug transporters and their role in multidrug resistance of neoplastic cells. General Physiology and Biophysics, 2001, 20, 215-37.	0.9	25
66	Reversal effect of specific inhibitors of extracellular-signal regulated protein kinase pathway on P-glycoprotein mediated vincristine resistance of L1210 cells. General Physiology and Biophysics, 2001, 20, 439-44.	0.9	23
67	Cytotoxic activity of several unrelated drugs on L1210 mouse leukemic cell sublines with P-glycoprotein (PGP) mediated multidrug resistance (MDR) phenotype. A QSAR study. Neoplasma, 2000, 47, 100-6.	1.6	11
68	Glutathione S-transferase does not play a role in multidrug resistance of L1210/VCR cell line. Physiological Research, 2000, 49, 447-53.	0.9	11
69	"Lysine is the Lord", thought some scientists in regard to the group interacting with fluorescein isothiocyanate in ATP-binding sites of P-type ATPases but, is it not cysteine?. General Physiology and Biophysics, 2000, 19, 253-63.	0.9	10
70	Differential expression of regulatory proteins in L1210/VCR cells with multidrug resistance mediated by P-glycoprotein. General Physiology and Biophysics, 1999, 18, 45-56.	0.9	4
71	Interaction of lactate dehydrogenase with anthraquinone dyes: characterization of ligands for dyeâ€“ligand chromatography. Biomedical Applications, 1998, 715, 273-281.	1.7	18
72	Ca(2+)-induced inhibition of sodium pump: noncompetitive inhibition in respect of magnesium and sodium cations. General Physiology and Biophysics, 1998, 17, 179-88.	0.9	7

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73	Direct interaction between verapamil and doxorubicin causes the lack of reversal effect of verapamil on P-glycoprotein mediated resistance to doxorubicin in vitro using L1210/VCR cells. Neoplasma, 1998, 45, 248-53.	1.6	5
74	Mechanisms that may be involved in calcium tolerance of the diabetic heart. Molecular and Cellular Biochemistry, 1997, 176, 191-198.	3.1	31
75	Mechanisms that may be involved in calcium tolerance of the diabetic heart. , 1997, , 191-198.		13
76	Diabetic cardiomyopathy in rats: biochemical mechanisms of increased tolerance to calcium overload. Diabetes Research and Clinical Practice, 1996, 31, S93-S103.	2.8	25
77	Is cysteine residue important in FITC-sensitive ATP-binding site of P-type ATPases? A commentary to the state of the art. Molecular and Cellular Biochemistry, 1996, 160-161, 89-93.	3.1	6
78	Prevention by 7-oxo-prostacyclin of the calcium paradox in rat heart: Role of the sarcolemmal (Na,K)-ATPase. Molecular and Cellular Biochemistry, 1996, 160-161, 257-263.	3.1	5
79	Is cysteine residue important in FITC-sensitive ATP-binding site of P-type ATPases? A commentary to the state of the art. , 1996, , 89-93.		0
80	Overcoming of P-glycoprotein mediated vincristine resistance of L1210/VCR mouse leukemic cells could be induced by pentoxifyline but not by theophylline and caffeine. Neoplasma, 1996, 43, 11-5.	1.6	5
81	The membrane effect of benfluron: modulation of the heart sarcolemmal (Na+, K+)-ATPase and Mg(2+)-ATPase activities. General Physiology and Biophysics, 1996, 15, 71-5.	0.9	1
82	Competitive inhibition of (Na/K)-ATPase by furylethylenes with respect to potassium ions. General Physiology and Biophysics, 1996, 15, 291-307.	0.9	0
83	Adaptation of the heart to ischemia by preconditioning: Effects on energy equilibrium, properties of sarcolemmal ATPases and release of cardioprotective proteins. Molecular and Cellular Biochemistry, 1995, 147, 129-137.	3.1	6
84	Inhibition of (Na/K)-ATPase by electrophilic substances: Functional implications. Molecular and Cellular Biochemistry, 1995, 147, 187-192.	3.1	10
85	The effects of calcium and calcium channel blockers on sodium pump. Pflugers Archiv European Journal of Physiology, 1995, 429, 716-721.	2.8	13
86	Screening of Binding Properties of Con-A Immobilized on Bead Cellulose by Flow Microcalorimetry Using Invertase and Anti-Con-A Antibody as Reporting Systems. Analytical Letters, 1995, 28, 2585-2594.	1.8	3
87	Inhibition of (Na/K)-ATPase by electrophilic substances: Functional implications. , 1995, , 187-192.		1
88	Distribution of proteins in aqueous two-phase systems formed by dextran and polyethylene glycol. Influence of protein hydrophobicity. General Physiology and Biophysics, 1995, 14, 277-91.	0.9	1
89	Effect of phorbol myristate acetate (PMA) on P-glycoprotein mediated vincristine resistance of L1210 cells. General Physiology and Biophysics, 1995, 14, 171-5.	0.9	2
90	Estimation of the effective hydrophobicity of protiens: Re-evaluation of methods. Biotechnology Letters, 1994, 8, 915-920.	0.5	1

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91	2,4,6-trinitrobenzenesulfonic acid modification of the carboxyl-terminal region (C-domain) of calreticulin. Molecular and Cellular Biochemistry, 1994, 130, 19-28.	3.1	5
92	Inhibition of (Na/K)-ATPase by NFE induces an increase in mechanical activity of perfused guinea-pig heart. General Physiology and Biophysics, 1994, 13, 433-41.	0.9	1
93	Effect of pentoxifylline on P-glycoprotein mediated vincristine resistance of L1210 mouse leukemic cell line. Neoplasma, 1994, 41, 297-303.	1.6	4
94	Time dependence of [3H]-vincristine accumulation by L1210 mouse leukemic cells. Effect of P-glycoprotein overexpression. General Physiology and Biophysics, 1994, 13, 287-98.	0.9	5
95	Characterization of morphological and histochemical changes induced by overexpression of P-glycoprotein in mouse leukemic cell line L1210. Neoplasma, 1994, 41, 83-8.	1.6	7
96	Reversal effects of several Ca(2+)-entry blockers, neuroleptics and local anaesthetics on P-glycoprotein-mediated vincristine resistance of L1210/VCR mouse leukaemic cell line. Drugs Under Experimental and Clinical Research, 1994, 20, 13-8.	0.3	4
97	Purification of Glycerol Kinase by "Dye-Ligand" Chromatography and Hydrophobic Interaction Chromatography on Bead-Cellulose Derivatives. Collection of Czechoslovak Chemical Communications, 1993, 58, 445-451.	1.0	7
98	Overcoming of vincristine resistance in L1210/VCR cells by several corticosteroids. Collateral sensitivity of resistant cells. Neoplasma, 1993, 40, 21-5.	1.6	5
99	Adaptation of mouse leukemia cells L1210 to vincristine. Evidence for expression of P-glycoprotein. Neoplasma, 1992, 39, 73-7.	1.6	22
100	Application of adsorption kinetics for estimation of dissociation constants. Journal of Proteomics, 1991, 22, 185-193.	2.4	4
101	Trypsin entrapped within liposomes. Partition of a low-molecular-mass substrate as the main factor in kinetic control of hydrolysis. Collection of Czechoslovak Chemical Communications, 1991, 56, 712-717.	1.0	2
102	Hydrophobic partitioning of proteins in a two-phase aqueous system of poly(oxyethylene)-dextran alternatively derivatized by 2-hydroxy-3-phenoxypropyl group. Collection of Czechoslovak Chemical Communications, 1991, 56, 1270-1278.	1.0	4
103	Increased activity of sarcolemmal (Na+K+)-ATPase is involved in the late cardioprotective action of 7-oxo-prostacyclin. Cardioscience, 1991, 2, 105-8.	0.5	17
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109	Principles of selectivity of sodium and potassium binding sites of the Na+/K+-ATPase. A corollary hypothesis. Biochimica Et Biophysica Acta - Biomembranes, 1988, 946, 129-134.	2.6	2
110	Application of a time-concentration model of adsorption for determination of the nature of adsorbent-adsorbate interaction. Colloid and Polymer Science, 1987, 265, 933-937.	2.1	7
111	Size-exclusion effect of a substrate upon kinetics of trypsin immobilized on porous bead cellulose. 2. Influence of hydrodynamic diameter of substrate. Enzyme and Microbial Technology, 1987, 9, 44-46.	3.2	7
112	Interaction of ATP with the active sites of ATPases in heart sarcolemma. Role of the hydroxylic group in position two on the ribose moiety. General Physiology and Biophysics, 1987, 6, 193-6.	0.9	1
113	Some properties of the active site and cation binding site of the heart sarcolemmal (Na+ + K+)-ATPase. Biomedica Biochimica Acta, 1987, 46, S553-6.	0.1	3
114	Size-exclusion effect of a substrate upon kinetics of trypsin immobilized on porous bead cellulose. 1. Influence of distribution coefficient of a substrate. Enzyme and Microbial Technology, 1986, 8, 109-114.	3.2	16
115	Quantitative criterion for evaluation of hydrophobic sorbents. Biomedical Applications, 1986, 376, 95-101.	1.7	5
116	Effect of the concentration of 5,5'-dithiobis(2-nitrobenzoic acid) on parameters of the kinetics of its chemisorption on thiol derivatives of cellulose. Collection of Czechoslovak Chemical Communications, 1986, 51, 545-552.	1.0	6
117	Selective chemisorbents. Part 3: Selective binding of thiols to benzaldehyde derivatives of cellulose. Reactive Polymers, Ion Exchangers, Sorbents, 1984, 2, 189-196.	0.0	4
118	Simple estimation of carrier binding capacity using sorption kinetics curve-fitting. Journal of Proteomics, 1984, 9, 267-275.	2.4	10
119	Aldehydic derivatives of bead cellulose?relationships between matrix structure and function in immobilization of enzymes catalyzing hydrolysis of high molecular substrates. Biotechnology and Bioengineering, 1982, 24, 2573-2582.	3.3	24
120	Different Mechanisms of Drug Resistance in Myelodysplastic Syndromes and Acute Myeloid Leukemia. , 0, , .		1