

Michael M Gottesman

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214
papers

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188
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229
ext. papers

38,118
ext. citations

8.9
avg, IF

7.35
L-index

#	Paper	IF	Citations
214	Multidrug resistance in cancer: role of ATP-dependent transporters. <i>Nature Reviews Cancer</i> , 2002 , 2, 48-58	31.3	4255
213	Biochemistry of multidrug resistance mediated by the multidrug transporter. <i>Annual Review of Biochemistry</i> , 1993 , 62, 385-427	29.1	3184
212	Targeting multidrug resistance in cancer. <i>Nature Reviews Drug Discovery</i> , 2006 , 5, 219-34	64.1	2649
211	Mechanisms of cancer drug resistance. <i>Annual Review of Medicine</i> , 2002 , 53, 615-27	17.4	1958
210	A "silent" polymorphism in the MDR1 gene changes substrate specificity. <i>Science</i> , 2007 , 315, 525-8	33.3	1928
209	Biochemical, cellular, and pharmacological aspects of the multidrug transporter. <i>Annual Review of Pharmacology and Toxicology</i> , 1999 , 39, 361-98	17.9	1787
208	Internal duplication and homology with bacterial transport proteins in the mdr1 (P-glycoprotein) gene from multidrug-resistant human cells. <i>Cell</i> , 1986 , 47, 381-9	56.2	1743
207	Expression of a multidrug resistance gene in human cancers. <i>Journal of the National Cancer Institute</i> , 1989 , 81, 116-24	9.7	1087
206	P-glycoprotein: from genomics to mechanism. <i>Oncogene</i> , 2003 , 22, 7468-85	9.2	847
205	Revisiting the role of ABC transporters in multidrug-resistant cancer. <i>Nature Reviews Cancer</i> , 2018 , 18, 452-464	31.3	732
204	Is the multidrug transporter a flippase?. <i>Trends in Biochemical Sciences</i> , 1992 , 17, 18-21	10.3	636
203	Multiple-drug resistance in human cancer. <i>New England Journal of Medicine</i> , 1987 , 316, 1388-93	59.2	618
202	Cisplatin resistance: a cellular self-defense mechanism resulting from multiple epigenetic and genetic changes. <i>Pharmacological Reviews</i> , 2012 , 64, 706-21	22.5	565
201	HIV-1 protease inhibitors are substrates for the MDR1 multidrug transporter. <i>Biochemistry</i> , 1998 , 37, 3594-601	3.2	453
200	Mechanisms of multidrug resistance in cancer. <i>Methods in Molecular Biology</i> , 2010 , 596, 47-76	1.4	450
199	Predicting drug sensitivity and resistance: profiling ABC transporter genes in cancer cells. <i>Cancer Cell</i> , 2004 , 6, 129-37	24.3	432
198	Isolation and genetic characterization of human KB cell lines resistant to multiple drugs. <i>Somatic Cell and Molecular Genetics</i> , 1985 , 11, 117-26		413

197	The molecular basis of multidrug resistance in cancer: the early years of P-glycoprotein research. <i>FEBS Letters</i> , 2006 , 580, 998-1009	3.8	380
196	The role of cellular accumulation in determining sensitivity to platinum-based chemotherapy. <i>Annual Review of Pharmacology and Toxicology</i> , 2008 , 48, 495-535	17.9	374
195	The <i>mdr1</i> gene, responsible for multidrug-resistance, codes for P-glycoprotein. <i>Biochemical and Biophysical Research Communications</i> , 1986 , 141, 956-62	3.4	350
194	The clinical relevance of cancer cell lines. <i>Journal of the National Cancer Institute</i> , 2013 , 105, 452-8	9.7	341
193	Redefining the relevance of established cancer cell lines to the study of mechanisms of clinical anti-cancer drug resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18708-13	11.5	311
192	Overview: ABC transporters and human disease. <i>Journal of Bioenergetics and Biomembranes</i> , 2001 , 33, 453-8	3.7	261
191	A synonymous polymorphism in a common MDR1 (ABCB1) haplotype shapes protein function. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 860-71	4	239
190	Human P-glycoprotein exhibits reduced affinity for substrates during a catalytic transition state. <i>Biochemistry</i> , 1998 , 37, 5010-9	3.2	229
189	Collateral sensitivity as a strategy against cancer multidrug resistance. <i>Drug Resistance Updates</i> , 2012 , 15, 98-105	23.2	215
188	Say no to DMSO: dimethylsulfoxide inactivates cisplatin, carboplatin, and other platinum complexes. <i>Cancer Research</i> , 2014 , 74, 3913-22	10.1	208
187	Prolonged drug selection of breast cancer cells and enrichment of cancer stem cell characteristics. <i>Journal of the National Cancer Institute</i> , 2010 , 102, 1637-52	9.7	208
186	Metallofullerene nanoparticles circumvent tumor resistance to cisplatin by reactivating endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7449-54	11.5	206
185	Toward a Better Understanding of the Complexity of Cancer Drug Resistance. <i>Annual Review of Pharmacology and Toxicology</i> , 2016 , 56, 85-102	17.9	200
184	Is resistance useless? Multidrug resistance and collateral sensitivity. <i>Trends in Pharmacological Sciences</i> , 2009 , 30, 546-56	13.2	195
183	Synonymous mutations and ribosome stalling can lead to altered folding pathways and distinct minima. <i>Journal of Molecular Biology</i> , 2008 , 383, 281-91	6.5	195
182	Silent polymorphisms speak: how they affect pharmacogenomics and the treatment of cancer. <i>Cancer Research</i> , 2007 , 67, 9609-12	10.1	194
181	ATP-binding properties of P glycoprotein from multidrug-resistant KB cells. <i>FASEB Journal</i> , 1987 , 1, 51-40.9		194
180	CHO mutants resistant to colchicine, colcemid or griseofulvin have an altered beta-tubulin. <i>Cell</i> , 1980 , 20, 29-36	56.2	189

179	Drug resistance: still a daunting challenge to the successful treatment of AML. <i>Drug Resistance Updates</i> , 2012 , 15, 62-9	23.2	183
178	P-glycoprotein gene (MDR1) cDNA from human adrenal: normal P-glycoprotein carries Gly185 with an altered pattern of multidrug resistance. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 162, 224-31	3.4	171
177	Selective toxicity of NSC73306 in MDR1-positive cells as a new strategy to circumvent multidrug resistance in cancer. <i>Cancer Research</i> , 2006 , 66, 4808-15	10.1	148
176	Functional characterization of coding polymorphisms in the human MDR1 gene using a vaccinia virus expression system. <i>Molecular Pharmacology</i> , 2002 , 62, 1-6	4.3	147
175	Characterization of phosphorylation-defective mutants of human P-glycoprotein expressed in mammalian cells. <i>Journal of Biological Chemistry</i> , 1996 , 271, 1708-16	5.4	146
174	Melanosomal sequestration of cytotoxic drugs contributes to the intractability of malignant melanomas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 9903-7	11.5	145
173	Targeting the Achilles heel of multidrug-resistant cancer by exploiting the fitness cost of resistance. <i>Chemical Reviews</i> , 2014 , 114, 5753-74	68.1	140
172	Altered drug-stimulated ATPase activity in mutants of the human multidrug resistance protein. <i>Journal of Biological Chemistry</i> , 1996 , 271, 1877-83	5.4	134
171	Profiling SLCO and SLC22 genes in the NCI-60 cancer cell lines to identify drug uptake transporters. <i>Molecular Cancer Therapeutics</i> , 2008 , 7, 3081-91	6.1	130
170	Engraftment of MDR1 and NeoR Gene-Transduced Hematopoietic Cells After Breast Cancer Chemotherapy. <i>Blood</i> , 1999 , 94, 52-61	2.2	130
169	The "specific" P-glycoprotein inhibitor Tariquidar is also a substrate and an inhibitor for breast cancer resistance protein (BCRP/ABCG2). <i>ACS Chemical Neuroscience</i> , 2011 , 2, 82-9	5.7	129
168	Both ATP sites of human P-glycoprotein are essential but not symmetric. <i>Biochemistry</i> , 1999 , 38, 13887-92	3.2	129
167	Measurement of multidrug-resistance messenger RNA in urogenital cancers; elevated expression in renal cell carcinoma is associated with intrinsic drug resistance. <i>Journal of Urology</i> , 1988 , 139, 862-5	2.5	129
166	Synthesis, activity, and pharmacophore development for isatin-beta-thiosemicarbazones with selective activity toward multidrug-resistant cells. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3191-204	8.3	125
165	Expression of the human multidrug transporter in insect cells by a recombinant baculovirus. <i>Biochemistry</i> , 1990 , 29, 2295-303	3.2	125
164	Genetic basis of multidrug resistance of tumor cells. <i>Journal of Bioenergetics and Biomembranes</i> , 1990 , 22, 593-618	3.7	124
163	Involvement of ABC transporters in melanogenesis and the development of multidrug resistance of melanoma. <i>Pigment Cell and Melanoma Research</i> , 2009 , 22, 740-9	4.5	121
162	DNA-PKcs: a T-cell tumour suppressor encoded at the mouse scid locus. <i>Nature Genetics</i> , 1997 , 17, 483-636.3	6.3	121

161	Structures of the Multidrug Transporter P-glycoprotein Reveal Asymmetric ATP Binding and the Mechanism of Polyspecificity. <i>Journal of Biological Chemistry</i> , 2017 , 292, 446-461	5.4	120
160	Expression of the multidrug resistance gene in myeloid leukemias. <i>Leukemia Research</i> , 1990 , 14, 11-21	2.7	102
159	MDR1 synonymous polymorphisms alter transporter specificity and protein stability in a stable epithelial monolayer. <i>Cancer Research</i> , 2014 , 74, 598-608	10.1	93
158	Structural flexibility of the linker region of human P-glycoprotein permits ATP hydrolysis and drug transport. <i>Biochemistry</i> , 1998 , 37, 13660-73	3.2	93
157	Synthesis and structure-activity evaluation of isatin- β -thiosemicarbazones with improved selective activity toward multidrug-resistant cells expressing P-glycoprotein. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 5878-89	8.3	86
156	SIRT1 contributes in part to cisplatin resistance in cancer cells by altering mitochondrial metabolism. <i>Molecular Cancer Research</i> , 2008 , 6, 1499-506	6.6	84
155	Cisplatin sensitivity mediated by WEE1 and CHK1 is mediated by miR-155 and the miR-15 family. <i>Cancer Research</i> , 2012 , 72, 5945-55	10.1	83
154	Effect of ABC transporters on HIV-1 infection: inhibition of virus production by the MDR1 transporter. <i>FASEB Journal</i> , 2000 , 14, 516-22	0.9	83
153	Interaction of bioactive hydrophobic peptides with the human multidrug transporter. <i>FASEB Journal</i> , 1994 , 8, 766-70	0.9	82
152	Evidence for dual mode of action of a thiosemicarbazone, NSC73306: a potent substrate of the multidrug resistance linked ABCG2 transporter. <i>Molecular Cancer Therapeutics</i> , 2007 , 6, 3287-96	6.1	80
151	Decreased accumulation of [¹⁴ C]carboplatin in human cisplatin-resistant cells results from reduced energy-dependent uptake. <i>Journal of Cellular Physiology</i> , 2000 , 183, 108-16	7	80
150	Contribution to substrate specificity and transport of nonconserved residues in transmembrane domain 12 of human P-glycoprotein. <i>Biochemistry</i> , 1998 , 37, 16400-9	3.2	79
149	Ethnicity-related polymorphisms and haplotypes in the human ABCB1 gene. <i>Pharmacogenomics</i> , 2007 , 8, 29-39	2.6	78
148	The Inhibitor Ko143 Is Not Specific for ABCG2. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015 , 354, 384-93	4.7	77
147	The Role of Multidrug Resistance Efflux Pumps in Cancer: Revisiting a JNCI Publication Exploring Expression of the MDR1 (P-glycoprotein) Gene. <i>Journal of the National Cancer Institute</i> , 2015 , 107,	9.7	73
146	A novel way to spread drug resistance in tumor cells: functional intercellular transfer of P-glycoprotein (ABCB1). <i>Trends in Pharmacological Sciences</i> , 2005 , 26, 385-7	13.2	73
145	Analysis of ATP-binding cassette transporter expression in drug-selected cell lines by a microarray dedicated to multidrug resistance. <i>Molecular Pharmacology</i> , 2004 , 66, 1397-405	4.3	73
144	The effect of ion channel blockers, immunosuppressive agents, and other drugs on the activity of the multi-drug transporter. <i>International Journal of Cancer</i> , 1993 , 54, 456-61	7.5	73

143	The dynamics of drug resistance: a mathematical perspective. <i>Drug Resistance Updates</i> , 2012 , 15, 90-7	23.2	71
142	Reversal of drug resistance in a human colon cancer xenograft expressing MDR1 complementary DNA by in vivo administration of MRK-16 monoclonal antibody. <i>Journal of the National Cancer Institute</i> , 1991 , 83, 1386-91	9.7	70
141	Mislocalization of membrane proteins associated with multidrug resistance in cisplatin-resistant cancer cell lines. <i>Cancer Research</i> , 2003 , 63, 5909-16	10.1	70
140	Resistance to paclitaxel in a cisplatin-resistant ovarian cancer cell line is mediated by P-glycoprotein. <i>PLoS ONE</i> , 2012 , 7, e40717	3.7	66
139	Principal expression of two mRNA isoforms (ABCB 5alpha and ABCB 5beta) of the ATP-binding cassette transporter gene ABCB 5 in melanoma cells and melanocytes. <i>Pigment Cell & Melanoma Research</i> , 2005 , 18, 102-12		65
138	Influence of melanosome dynamics on melanoma drug sensitivity. <i>Journal of the National Cancer Institute</i> , 2009 , 101, 1259-71	9.7	64
137	Nanoscale drug delivery platforms overcome platinum-based resistance in cancer cells due to abnormal membrane protein trafficking. <i>ACS Nano</i> , 2013 , 7, 10452-64	16.7	63
136	Beyond 3D culture models of cancer. <i>Science Translational Medicine</i> , 2015 , 7, 283ps9	17.5	62
135	Cryo-EM Analysis of the Conformational Landscape of Human P-glycoprotein (ABCB1) During its Catalytic Cycle. <i>Molecular Pharmacology</i> , 2016 , 90, 35-41	4.3	59
134	Identification of cytoskeletal [14C]carboplatin-binding proteins reveals reduced expression and disorganization of actin and filamin in cisplatin-resistant cell lines. <i>Molecular Pharmacology</i> , 2004 , 66, 789-93	4.3	58
133	Cancer gene therapy: an awkward adolescence. <i>Cancer Gene Therapy</i> , 2003 , 10, 501-8	5.4	57
132	A single amino acid residue contributes to distinct mechanisms of inhibition of the human multidrug transporter by stereoisomers of the dopamine receptor antagonist flupentixol. <i>Biochemistry</i> , 1999 , 38, 6630-9	3.2	54
131	Endocytic recycling compartments altered in cisplatin-resistant cancer cells. <i>Cancer Research</i> , 2006 , 66, 2346-53	10.1	53
130	P-glycoprotein, expressed in multidrug resistant cells, is not responsible for alterations in membrane fluidity or membrane potential. <i>Cancer Research</i> , 2003 , 63, 3084-91	10.1	53
129	Advances in the molecular detection of ABC transporters involved in multidrug resistance in cancer. <i>Current Pharmaceutical Biotechnology</i> , 2011 , 12, 686-92	2.6	52
128	Trafficking and localization of platinum complexes in cisplatin-resistant cell lines monitored by fluorescence-labeled platinum. <i>Journal of Cellular Physiology</i> , 2005 , 202, 635-41	7	51
127	Efficient expression of drug-selectable genes in retroviral vectors under control of an internal ribosome entry site. <i>Nature Biotechnology</i> , 1994 , 12, 694-8	44.5	50
126	Molecular manipulations of the multidrug transporter: a new role for transgenic mice. <i>FASEB Journal</i> , 1991 , 5, 2523-8	0.9	50

125	Verapamil enhances the toxicity of conjugates of epidermal growth factor with Pseudomonas exotoxin and antitransferrin receptor with Pseudomonas exotoxin. <i>Journal of Cellular Physiology</i> , 1984 , 120, 271-9	7	49
124	The role of cell density and intratumoral heterogeneity in multidrug resistance. <i>Cancer Research</i> , 2013 , 73, 7168-75	10.1	47
123	Genetic evidence that a phorbol ester tumor promoter stimulates ornithine decarboxylase activity by a pathway that is independent of cyclic AMP-dependent protein kinases in CHO cells. <i>Journal of Cellular Physiology</i> , 1982 , 113, 433-9	7	46
122	A dual-fluorescence high-throughput cell line system for probing multidrug resistance. <i>Assay and Drug Development Technologies</i> , 2009 , 7, 233-49	2.1	45
121	Lysosomal trapping of a radiolabeled substrate of P-glycoprotein as a mechanism for signal amplification in PET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2593-8	11.5	45
120	Multidrug resistance-linked gene signature predicts overall survival of patients with primary ovarian serous carcinoma. <i>Clinical Cancer Research</i> , 2012 , 18, 3197-206	12.9	41
119	Impact of intertumoral heterogeneity on predicting chemotherapy response of BRCA1-deficient mammary tumors. <i>Cancer Research</i> , 2012 , 72, 2350-61	10.1	41
118	Comparison of drug transporter levels in normal colon, colon cancer, and Caco-2 cells: impact on drug disposition and discovery. <i>Molecular Pharmaceutics</i> , 2006 , 3, 87-93	5.6	40
117	New potent verapamil derivatives that reverse multidrug resistance in human renal carcinoma cells and in transgenic mice expressing the human MDR1 gene. <i>Journal of Urology</i> , 1991 , 146, 447-53	2.5	40
116	Tariquidar Is an Inhibitor and Not a Substrate of Human and Mouse P-glycoprotein. <i>Drug Metabolism and Disposition</i> , 2016 , 44, 275-82	4	39
115	High cloning capacity of in vitro packaged SV40 vectors with no SV40 virus sequences. <i>Human Gene Therapy</i> , 2003 , 14, 167-77	4.8	39
114	Defeating drug resistance in cancer. <i>Discovery Medicine</i> , 2006 , 6, 18-23	2.5	39
113	Drug selection with paclitaxel restores expression of linked IL-2 receptor gamma -chain and multidrug resistance (MDR1) transgenes in canine bone marrow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 3123-8	11.5	37
112	Retroviral transfer of a chimeric multidrug resistance-adenosine deaminase gene. <i>FASEB Journal</i> , 1990 , 4, 1501-7	0.9	36
111	N-desmethyl-loperamide is selective for P-glycoprotein among three ATP-binding cassette transporters at the blood-brain barrier. <i>Drug Metabolism and Disposition</i> , 2010 , 38, 917-22	4	35
110	In vitro-packaged SV40 pseudovirions as highly efficient vectors for gene transfer. <i>Human Gene Therapy</i> , 2002 , 13, 299-310	4.8	35
109	Transfer of genes to Chinese hamster ovary cells by DNA-mediated transformation. <i>Somatic Cell Genetics</i> , 1982 , 8, 23-39		35
108	Evaluation of current methods used to analyze the expression profiles of ATP-binding cassette transporters yields an improved drug-discovery database. <i>Molecular Cancer Therapeutics</i> , 2009 , 8, 2057-66	6.1	34

107	Regulation and expression of the ATP-binding cassette transporter ABCG2 in human embryonic stem cells. <i>Stem Cells</i> , 2012 , 30, 2175-87	5.8	33
106	Bioluminescent imaging of drug efflux at the blood-brain barrier mediated by the transporter ABCG2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20801-6	5	33
105	Characterization by somatic cell genetics of a monoclonal antibody to the MDR1 gene product (P-glycoprotein): determination of P-glycoprotein expression in multi-drug-resistant KB and CEM cell variants. <i>International Journal of Cancer</i> , 1991 , 47, 533-43	7.5	33
104	Multidrug resistance in relapsed acute myeloid leukemia: evidence of biological heterogeneity. <i>Cancer</i> , 2013 , 119, 3076-83	6.4	32
103	Collateral sensitivity of multidrug-resistant cells to the orphan drug tiopronin. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 4987-97	8.3	32
102	Studies of human MDR1-MDR2 chimeras demonstrate the functional exchangeability of a major transmembrane segment of the multidrug transporter and phosphatidylcholine flippase. <i>Molecular and Cellular Biology</i> , 1999 , 19, 1450-9	4.8	32
101	Pseudomonas exotoxin conjugated to monoclonal antibody MRK16 specifically kills multidrug resistant cells in cultured renal carcinomas and in MDR-transgenic mice. <i>Journal of Urology</i> , 1993 , 149, 174-8	2.5	32
100	Gene transfer of drug resistance genes. Implications for cancer therapy. <i>Annals of the New York Academy of Sciences</i> , 1994 , 716, 126-38; discussion 138-43	6.5	32
99	Porphyrin-lipid assemblies and nanovesicles overcome ABC transporter-mediated photodynamic therapy resistance in cancer cells. <i>Cancer Letters</i> , 2019 , 457, 110-118	9.9	31
98	Inhibition of glutathione peroxidase mediates the collateral sensitivity of multidrug-resistant cells to tiopronin. <i>Journal of Biological Chemistry</i> , 2014 , 289, 21473-89	5.4	31
97	ATP and GTP as alternative energy sources for vinblastine transport by P-170 in KB-V1 plasma membrane vesicles. <i>FEBS Letters</i> , 1992 , 304, 256-60	3.8	31
96	The impact of cell density and mutations in a model of multidrug resistance in solid tumors. <i>Bulletin of Mathematical Biology</i> , 2014 , 76, 627-53	2.1	30
95	The extracellular loop between TM5 and TM6 of P-glycoprotein is required for reactivity with monoclonal antibody UIC2. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 367, 74-80	4.1	30
94	Reduced mRNA levels for the multidrug-resistance genes in cAMP-dependent protein kinase mutant cell lines. <i>Journal of Cellular Physiology</i> , 1992 , 152, 87-94	7	30
93	The protein phosphatase 2A inhibitor LB100 sensitizes ovarian carcinoma cells to cisplatin-mediated cytotoxicity. <i>Molecular Cancer Therapeutics</i> , 2015 , 14, 90-100	6.1	29
92	Clinical relevance of multidrug resistance gene expression in ovarian serous carcinoma effusions. <i>Molecular Pharmaceutics</i> , 2011 , 8, 2080-8	5.6	28
91	P-Glycoprotein is not present in mitochondrial membranes. <i>Experimental Cell Research</i> , 2007 , 313, 3100-5	4.2	28
90	Identification of Cytoskeletal [14C]Carboplatin-Binding Proteins Reveals Reduced Expression and Disorganization of Actin and Filamin in Cisplatin-Resistant Cell Lines. <i>Molecular Pharmacology</i> , 2004 , 66, 789-793	4.3	27

89	Multidrug resistant transgenic mice as a novel pharmacologic tool. <i>BioEssays</i> , 1991 , 13, 381-7	4.1	27
88	The development of gene therapy: from monogenic recessive disorders to complex diseases such as cancer. <i>Methods in Molecular Biology</i> , 2009 , 542, 5-54	1.4	27
87	Elevated expression of TMEM205, a hypothetical membrane protein, is associated with cisplatin resistance. <i>Journal of Cellular Physiology</i> , 2010 , 225, 822-8	7	26
86	Detection of multidrug resistance (MDR1) gene RNA expression in human tumors by a sensitive ribonuclease protection assay. <i>Japanese Journal of Cancer Research</i> , 1989 , 80, 1127-32		26
85	Identification by functional cloning from a retroviral cDNA library of cDNAs for ribosomal protein L36 and the 10-kDa heat shock protein that confer cisplatin resistance. <i>Molecular Pharmacology</i> , 2006 , 69, 1383-8	4.3	25
84	A pleiotropic defect reducing drug accumulation in cisplatin-resistant cells. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1599-606	4.2	25
83	Pluripotent Stem Cell Platforms for Drug Discovery. <i>Trends in Molecular Medicine</i> , 2018 , 24, 805-820	11.5	24
82	RAB8 enhances TMEM205-mediated cisplatin resistance. <i>Pharmaceutical Research</i> , 2012 , 29, 643-50	4.5	24
81	Changes in biophysical parameters of plasma membranes influence cisplatin resistance of sensitive and resistant epidermal carcinoma cells. <i>Experimental Cell Research</i> , 2004 , 293, 283-91	4.2	24
80	Heterogeneity in refractory acute myeloid leukemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10494-10503	11.5	22
79	Modeling intrinsic heterogeneity and growth of cancer cells. <i>Journal of Theoretical Biology</i> , 2015 , 367, 262-277	2.3	22
78	Microfabricated polymeric vessel mimetics for 3-D cancer cell culture. <i>Biomaterials</i> , 2013 , 34, 8301-13	15.6	22
77	Model systems for studying the blood-brain barrier: Applications and challenges. <i>Biomaterials</i> , 2019 , 214, 119217	15.6	21
76	A Gene Expression Signature Associated with Overall Survival in Patients with Hepatocellular Carcinoma Suggests a New Treatment Strategy. <i>Molecular Pharmacology</i> , 2016 , 89, 263-72	4.3	21
75	Contributions of microRNA dysregulation to cisplatin resistance in adenocarcinoma cells. <i>Experimental Cell Research</i> , 2013 , 319, 566-74	4.2	19
74	Expression of the multidrug transporter P-glycoprotein is inversely related to that of apoptosis-associated endogenous TRAIL. <i>Experimental Cell Research</i> , 2015 , 336, 318-28	4.2	18
73	Characterization of an unusual mutant of human melanoma cells resistant to anticancer drugs that inhibit topoisomerase II. <i>Journal of Cellular Physiology</i> , 1993 , 155, 414-25	7	18
72	Mathematical Modeling Reveals That Changes to Local Cell Density Dynamically Modulate Baseline Variations in Cell Growth and Drug Response. <i>Cancer Research</i> , 2016 , 76, 2882-90	10.1	17

71	P-glycoprotein-dependent resistance of cancer cells toward the extrinsic TRAIL apoptosis signaling pathway. <i>Biochemical Pharmacology</i> , 2013 , 86, 584-96	6	17
70	Sodium butyrate affects expression of fibronectin on CHO cells: specific increase in antibody-complement-mediated cytotoxicity. <i>Journal of Cellular Physiology</i> , 1980 , 104, 163-70	7	17
69	The role of Abcb5 alleles in susceptibility to haloperidol-induced toxicity in mice and humans. <i>PLoS Medicine</i> , 2015 , 12, e1001782	11.6	16
68	A role for ceramide glycosylation in resistance to oxaliplatin in colorectal cancer. <i>Experimental Cell Research</i> , 2020 , 388, 111860	4.2	16
67	An automated method measures variability in P-glycoprotein and ABCG2 densities across brain regions and brain matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 2062-2075	7.3	15
66	Simplifying the complexity of resistance heterogeneity in metastasis. <i>Trends in Molecular Medicine</i> , 2014 , 20, 129-36	11.5	14
65	Inhibition of multidrug resistance by SV40 pseudovirion delivery of an antigene peptide nucleic acid (PNA) in cultured cells. <i>PLoS ONE</i> , 2011 , 6, e17981	3.7	14
64	Down-regulation and altered localization of gamma-catenin in cisplatin-resistant adenocarcinoma cells. <i>Molecular Pharmacology</i> , 2004 , 65, 1217-24	4.3	14
63	The molecular mysteries underlying P-glycoprotein-mediated multidrug resistance. <i>Cancer Biology and Therapy</i> , 2004 , 3, 382-4	4.6	14
62	Evaluation of fluorophore-tethered platinum complexes to monitor the fate of cisplatin analogs. <i>Journal of Biological Inorganic Chemistry</i> , 2015 , 20, 1081-95	3.7	13
61	Mapping discontinuous epitopes for MRK-16, UIC2 and 4E3 antibodies to extracellular loops 1 and 4 of human P-glycoprotein. <i>Scientific Reports</i> , 2018 , 8, 12716	4.9	12
60	Efficient long-term coexpression of a hammerhead ribozyme targeted to the U5 region of HIV-1 LTR by linkage to the multidrug-resistance gene. <i>Oligonucleotides</i> , 1997 , 7, 511-22		12
59	Blocking downstream signaling pathways in the context of HDAC inhibition promotes apoptosis preferentially in cells harboring mutant Ras. <i>Oncotarget</i> , 2016 , 7, 69804-69815	3.3	12
58	A High-Throughput Screen of a Library of Therapeutics Identifies Cytotoxic Substrates of P-glycoprotein. <i>Molecular Pharmacology</i> , 2019 , 96, 629-640	4.3	12
57	An epidermal growth factor-ricin A chain (EGF-RTA)-resistant mutant and an epidermal growth factor-Pseudomonas endotoxin (EGF-PE)-resistant mutant have distinct phenotypes. <i>Journal of Cellular Physiology</i> , 1989 , 139, 51-7	7	11
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