

CITATION REPORT

List of articles citing

Structure of P-glycoprotein reveals a molecular basis for poly-specific drug binding

DOI: 10.1126/science.1168750
Science, 2009, 323, 1718-22.

Source: <https://exaly.com/paper-pdf/46929380/citation-report.pdf>

Version: 2024-04-19

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1693	Overexpression of membrane proteins using <i>Pichia pastoris</i> . 2012 , Chapter 29, Unit 29.2		10
1692	. 2009 ,		101
1691	The blood-brain barrier thyroxine transporter organic anion-transporting polypeptide 1c1 displays atypical transport kinetics. 2009 , 150, 5153-62		37
1690	Pharmacokinetic drug interactions in palliative care: focus on opioids. 2009 , 12, 1043-50		12
1689	The peptide-loading complex--antigen translocation and MHC class I loading. 2009 , 390, 783-94		24
1688	Biochemistry. Through a mirror, differently. <i>Science</i> , 2009 , 323, 1679-80	33.3	7
1687	Cisplatin. 73-107		
1686	Multicomponent drug efflux complexes: architecture and mechanism of assembly. 2009 , 4, 919-32		44
1685	Insights into how nucleotide-binding domains power ABC transport. 2009 , 17, 1213-22		38
1684	ABC transporters: a riddle wrapped in a mystery inside an enigma. 2009 , 34, 520-31		147
1683	Recent PDE4 inhibitor clinical candidates. 2009 , 14, 812-813		1
1682	Rational drug design. 2009 , 625, 90-100		155
1681	Combined pharmacophore modeling, docking, and 3D QSAR studies of ABCB1 and ABCC1 transporter inhibitors. 2009 , 4, 1883-96		81
1680	Activators of P-glycoprotein: Structure-activity relationships and investigation of their mode of action. 2009 , 4, 1897-911		28
1679	Gleichzeitige Bindung beider Enantiomere eines racemischen Wirkstoffs durch das aktive Zentrum eines Enzyms. 2009 , 121, 9248-9251		4
1678	The active site of an enzyme can host both enantiomers of a racemic ligand simultaneously. 2009 , 48, 9084-7		24
1677	Predicting ligand interactions with ABC transporters in ADME. 2009 , 6, 1960-9		36

1676	Synthesis and multidrug resistance reversal activity of dihydroptychantol A and its novel derivatives. 2009 , 17, 4981-9	18
1675	The ATP-binding cassette family: a structural perspective. 2009 , 66, 3111-26	83
1674	Molecular models of the open and closed states of the whole human CFTR protein. 2009 , 66, 3469-86	128
1673	State-dependent block of Na ⁺ channels by articaine via the local anesthetic receptor. 2009 , 229, 1-9	10
1672	Membrane Porters of ATP-Binding Cassette Transport Systems Are Polyphyletic. 2009 , 231, 1-9	64
1671	Holo-BtuF stabilizes the open conformation of the vitamin B12 ABC transporter BtuCD. 2010 , 78, 738-53	24
1670	Binding site of ABC transporter homology models confirmed by ABCB1 crystal structure. 2009 , 6, 20	25
1669	Imaging the function of P-glycoprotein with radiotracers: pharmacokinetics and in vivo applications. 2009 , 86, 368-77	146
1668	Structure of a multidrug transporter. 2009 , 27, 546-7	64
1667	Comparison of the inward- and outward-open homology models and ligand binding of human P-glycoprotein. 2009 , 276, 7016-26	32
1666	Lipid dependence of ABC transporter localization and function. 2009 , 161, 57-64	85
1665	Analogs of a 4-aminothieno[2,3-d]pyrimidine lead (QB13) as modulators of P-glycoprotein substrate specificity. 2009 , 19, 6102-5	16
1664	NMR characterization of membrane protein-detergent micelle solutions by use of microcoil equipment. 2009 , 131, 18450-6	23
1663	Technical pitfalls and improvements for high-speed screening and QSAR analysis to predict inhibitors of the human bile salt export pump (ABCB11/BSEP). 2009 , 11, 581-9	23
1662	Aromatic 2-(thio)ureidocarboxylic acids as a new family of modulators of multidrug resistance-associated protein 1: synthesis, biological evaluation, and structure-activity relationships. 2009 , 52, 4586-95	24
1661	Common defects of ABCG2, a high-capacity urate exporter, cause gout: a function-based genetic analysis in a Japanese population. 2009 , 1, 5ra11	289
1660	Detergents as intrinsic P-glycoprotein substrates and inhibitors. 2009 , 1788, 2335-44	51
1659	Is resistance useless? Multidrug resistance and collateral sensitivity. 2009 , 30, 546-56	195

1658	Conformational cycle of the ABC transporter MsbA in liposomes: detailed analysis using double electron-electron resonance spectroscopy. 2009 , 393, 586-97	123
1657	Alternating access of the putative substrate-binding chamber in the ABC transporter MsbA. 2009 , 393, 574-85	76
1656	Interaction of LDS-751 with the drug-binding site of P-glycoprotein: a Trp fluorescence steady-state and lifetime study. 2009 , 492, 17-28	14
1655	ABC efflux pump-based resistance to chemotherapy drugs. 2009 , 109, 2989-3011	457
1654	Synthesis of the bicyclic welwitindolinone core via an alkylation/cyclization cascade reaction. 2009 , 11, 5330-3	39
1653	Tuning microbial hosts for membrane protein production. 2009 , 8, 69	60
1652	Transmembrane helix 12 modulates progression of the ATP catalytic cycle in ABCB1. 2009 , 48, 6249-58	25
1651	Biochemical characterization of the multidrug regulator QacR distinguishes residues that are crucial to multidrug binding and induction of qacA transcription. 2009 , 48, 9794-800	7
1650	ABC transporters in <i>Saccharomyces cerevisiae</i> and their interactors: new technology advances the biology of the ABCC (MRP) subfamily. 2009 , 73, 577-93	137
1649	Oligomerization of human ATP-binding cassette transporters and its potential significance in human disease. 2009 , 5, 1049-63	18
1648	Chapter 11 - Reconstitution of membrane proteins in phospholipid bilayer nanodiscs. 2009 , 464, 211-31	563
1647	Identification of residues in the drug translocation pathway of the human multidrug resistance P-glycoprotein by arginine mutagenesis. 2009 , 284, 24074-87	69
1646	Pharmacoinformatic approaches to design natural product type ligands of ABC-transporters. 2010 , 16, 1742-52	16
1645	New tools for membrane protein research. 2010 , 11, 156-65	6
1644	Capturing Functional Motions of Membrane Channels and Transporters with Molecular Dynamics Simulation. 2010 , 7, 2481-2500	8
1643	The reconstituted <i>Escherichia coli</i> MsbA protein displays lipid flippase activity. 2010 , 429, 195-203	48
1642	Escape from stress granule sequestration: another way to drug resistance?. 2010 , 38, 1537-42	10
1641	Beta-cyclodextrin-centered star-shaped amphiphilic polymers for doxorubicin delivery. 2010 , 5, 193-208	77

1640	Elastic-contraction model proteins: Physical chemistry, protein function and drug design and delivery. 2010 , 62, 1404-55	42
1639	Transporters: Importance in Drug Absorption, Distribution, and Removal. 2010 , 27-49	29
1638	Structures of membrane proteins. 2010 , 43, 65-158	108
1637	Novel microtubule-targeting agents, pyrrolo-1,5-benzoxazepines, induce apoptosis in multi-drug-resistant cancer cells. 2010 , 66, 585-96	21
1636	On a biophysical and mathematical model of Pgp-mediated multidrug resistance: understanding the "space-time" dimension of MDR. 2010 , 39, 201-11	16
1635	Papyriferic acid derivatives as reversal agents of multidrug resistance in cancer cells. 2010 , 18, 2964-75	4
1634	Schistosoma mansoni express higher levels of multidrug resistance-associated protein 1 (SmMRP1) in juvenile worms and in response to praziquantel. 2010 , 173, 25-31	50
1633	Purified Plasmodium falciparum multi-drug resistance protein (PfMDR 1) binds a high affinity chloroquine analogue. 2010 , 173, 158-61	21
1632	Emerging new technologies in Pharmacogenomics: rapid SNP detection, molecular dynamic simulation, and QSAR analysis methods to validate clinically important genetic variants of human ABC Transporter ABCB1 (P-gp/MDR1). 2010 , 126, 69-81	35
1631	The ABCs of multidrug resistance in malaria. 2010 , 26, 440-6	67
1630	Unlocking the eukaryotic membrane protein structural proteome. 2010 , 20, 464-70	28
1629	MD recognition by MDR gene regulators. 2010 , 20, 489-96	18
1628	The human breast cancer resistance protein (BCRP/ABCG2) shows conformational changes with mitoxantrone. 2010 , 18, 482-93	76
1627	Three-dimensional structure of TspO by electron cryomicroscopy of helical crystals. 2010 , 18, 677-87	92
1626	Understanding polyspecificity of multidrug ABC transporters: closing in on the gaps in ABCB1. 2010 , 35, 36-42	135
1625	Phylogenetic analysis of fungal ABC transporters. 2010 , 11, 177	141
1624	Differences in assessment of macrolide interaction with human MDR1 (ABCB1, P-gp) using rhodamine-123 efflux, ATPase activity and cellular accumulation assays. 2010 , 41, 86-95	52
1623	Marine sponge-derived sipholane triterpenoids reverse P-glycoprotein (ABCB1)-mediated multidrug resistance in cancer cells. 2010 , 80, 1497-506	49

1622	Differential interactions between statins and P-glycoprotein: implications for exploiting statins as anticancer agents. 2010 , 127, 2936-48	43
1621	Bypassing multidrug resistance in cancer cells with biodegradable polymer capsules. 2010 , 22, 5398-403	78
1620	Folding Biology of Cystic Fibrosis: A Consortium-Based Approach to Disease. 2010 , 425-452	1
1619	Impact of the Recent Mouse P-Glycoprotein Structure for Structure-Based Ligand Design. 2010 , 29, 276-86	19
1618	Synthesis of highly functionalized barbituric acids and study of their interactions with p-glycoprotein and Mg ²⁺ --potential candidates for multi drug resistance modulation. 2010 , 45, 1256-62	15
1617	First biological evaluation of developed 3-benzyloxyfluorenes as novel class of MDR modulators. 2010 , 45, 2683-8	7
1616	Structure-cytotoxicity relationship in a series of N-phosphorus substituted E,E-3,5-bis(3-pyridinylmethylene)- and E,E-3,5-bis(4-pyridinylmethylene)piperid-4-ones. 2010 , 45, 5926-34	23
1615	Deleting two C-terminal alpha-helices is effective to crystallize the bacterial ABC transporter Escherichia coli MsbA complexed with AMP-PNP. 2010 , 66, 319-23	2
1614	Structures of the nucleotide-binding domain of the human ABCB6 transporter and its complexes with nucleotides. 2010 , 66, 979-87	10
1613	Circumvention of multi-drug resistance of cancer cells by Chinese herbal medicines. 2010 , 5, 26	53
1612	Dissection of the conformational cycle of the multidrug/lipidA ABC exporter MsbA. 2010 , 78, 2867-72	31
1611	Nature and consequences of mammalian brain and CSF efflux transporters: four decades of progress. 2010 , 112, 13-23	45
1610	Dihydropyridines and multidrug resistance: previous attempts, present state, and future trends. 2010 , 76, 369-81	10
1609	Tuning the cellular trafficking of the lysosomal peptide transporter TAPL by its N-terminal domain. 2010 , 11, 383-93	27
1608	Multidrug efflux pumps: substrate selection in ATP-binding cassette multidrug efflux pumps--first come, first served?. 2010 , 277, 540-9	90
1607	Multidrug efflux pumps: the structures of prokaryotic ATP-binding cassette transporter efflux pumps and implications for our understanding of eukaryotic P-glycoproteins and homologues. 2010 , 277, 550-63	48
1606	Transmembrane helix 12 plays a pivotal role in coupling energy provision and drug binding in ABCB1. 2010 , 277, 3974-85	19
1605	Regional P-glycoprotein activity and inhibition at the human blood-brain barrier as imaged by positron emission tomography. 2010 , 87, 579-85	51

1604	NMR evidence for differential phosphorylation-dependent interactions in WT and DeltaF508 CFTR. 2010 , 29, 263-77	87
1603	Structure of a cation-bound multidrug and toxic compound extrusion transporter. 2010 , 467, 991-4	216
1602	Structural biology: Last of the multidrug transporters. 2010 , 467, 926-7	20
1601	ABC proteins in antigen translocation and viral inhibition. 2010 , 6, 572-80	96
1600	Membrane transporters in drug development. 2010 , 9, 215-36	2464
1599	The P-glycoprotein inhibitor GF120918 modulates Ca ²⁺ -dependent processes and lipid metabolism in <i>Toxoplasma gondii</i> . 2010 , 5, e10062	12
1598	Glycomics: Relevance for Personalized Medicine. 2010 , 8, 49-63	
1597	ATP-independent CFTR channel gating and allosteric modulation by phosphorylation. 2010 , 107, 3888-93	57
1596	Evidence of evolutionary conservation of function between the thyroxine transporter Oatp1c1 and major facilitator superfamily members. 2010 , 151, 5941-51	17
1595	3V: cavity, channel and cleft volume calculator and extractor. 2010 , 38, W555-62	331
1594	Lipid bilayer regulation of membrane protein function: gramicidin channels as molecular force probes. 2010 , 7, 373-95	231
1593	Analysis of P-glycoprotein structure and binding sites. 2010 ,	
1592	Characterization of an asymmetric occluded state of P-glycoprotein with two bound nucleotides: implications for catalysis. 2010 , 285, 7575-86	88
1591	The conformational transition pathway of ATP binding cassette transporter MsbA revealed by atomistic simulations. 2010 , 285, 3053-63	50
1590	Intragenic suppressing mutations correct the folding and intracellular traffic of misfolded mutants of Yor1p, a eukaryotic drug transporter. 2010 , 285, 36304-14	22
1589	Structures of a minimal human CFTR first nucleotide-binding domain as a monomer, head-to-tail homodimer, and pathogenic mutant. 2010 , 23, 375-84	79
1588	Dynamics of alpha-helical subdomain rotation in the intact maltose ATP-binding cassette transporter. 2010 , 107, 20293-8	55
1587	Penetration of drugs through the blood-cerebrospinal fluid/blood-brain barrier for treatment of central nervous system infections. 2010 , 23, 858-83	547

1586	Xenobiotic, bile acid, and cholesterol transporters: function and regulation. 2010 , 62, 1-96	595
1585	C terminus of nucleotide binding domain 1 contains critical features for cystic fibrosis transmembrane conductance regulator trafficking and activation. 2010 , 285, 22132-40	12
1584	Lipid composition regulates the orientation of transmembrane helices in HorA, an ABC multidrug transporter. 2010 , 285, 14144-51	34
1583	Stable ATP binding mediated by a partial NBD dimer of the CFTR chloride channel. 2010 , 135, 399-414	72
1582	Transmembrane helices 1 and 6 of the human breast cancer resistance protein (BCRP/ABCG2): identification of polar residues important for drug transport. 2010 , 299, C1100-9	26
1581	Antibody-maytansinoid conjugates designed to bypass multidrug resistance. 2010 , 70, 2528-37	197
1580	An ABC transporter mutation is correlated with insect resistance to <i>Bacillus thuringiensis</i> Cry1Ac toxin. 2010 , 6, e1001248	266
1579	Asymmetric switching in a homodimeric ABC transporter: a simulation study. 2010 , 6, e1000762	60
1578	Pharmacogenomics: bridging the gap between science and practice. 2010 , 50, e1-14; quiz e15-7	22
1577	A physical model of non-specificity in P-glycoprotein's selection of substrates. 2010 ,	
1576	Structure and function of the human breast cancer resistance protein (BCRP/ABCG2). 2010 , 11, 603-17	193
1575	N,N-bis(cyclohexanol)amine aryl esters: the discovery of a new class of highly potent inhibitors of transporter-dependent multidrug resistance (MDR). 2010 , 10, 1715-31	5
1574	Herbal interactions with anticancer drugs: mechanistic and clinical considerations. 2010 , 17, 1635-78	60
1573	Using structural and mechanistic information to design novel inhibitors/substrates of P-glycoprotein. 2010 , 10, 1769-74	7
1572	Probing multidrug resistance P-glycoprotein transporter activity with SPECT radiopharmaceuticals. 2010 , 10, 1834-45	8
1571	Modulators of multidrug resistance associated proteins in the management of anticancer and antimicrobial drug resistance and the treatment of inflammatory diseases. 2010 , 10, 1732-56	21
1570	Cancer Drug Resistance: Targets and Therapies. 2010 , 361-382	1
1569	Interactions of dietary phytochemicals with ABC transporters: possible implications for drug disposition and multidrug resistance in cancer. 2010 , 42, 590-611	38

1568	Antitumor agents. 280. Multidrug resistance-selective desmosumotin B analogues. 2010 , 53, 6699-705	20
1567	Structure-activity relationships studies in a series of N,N-bis(alkanol)amine aryl esters as P-glycoprotein (Pgp) dependent multidrug resistance (MDR) inhibitors. 2010 , 53, 1755-62	22
1566	Drug transporter pharmacogenetics in nucleoside-based therapies. 2010 , 11, 809-41	56
1565	Connecting vascular and nervous system development: angiogenesis and the blood-brain barrier. 2010 , 33, 379-408	124
1564	Exploring the P-glycoprotein binding cavity with polyoxyethylene alkyl ethers. 2010 , 99, 3589-98	25
1563	In Silico ADME/Tox Predictions. 2010 , 29-124	4
1562	Evaluation of in vivo P-glycoprotein phenotyping probes: a need for validation. 2010 , 49, 223-37	58
1561	Synthesis and uptake of fluorescence-labeled Combi-molecules by P-glycoprotein-proficient and -deficient uterine sarcoma cells MES-SA and MES-SA/DX5. 2010 , 53, 2104-13	10
1560	A novel non-natural nucleoside that influences P-glycoprotein activity and mediates drug resistance. 2010 , 49, 1640-8	4
1559	Targeted cytosolic delivery of cell-impermeable compounds by nanoparticle-mediated, light-triggered endosome disruption. 2010 , 10, 2211-9	104
1558	Antitumor agents 286. Design, synthesis, and structure-activity relationships of 3'R,4'R-disubstituted-2',2'-dimethyldihydropyrano[2,3-f]chromone (DSP) analogues as potent chemosensitizers to overcome multidrug resistance. 2010 , 53, 8700-8	25
1557	Potent and fully noncompetitive peptidomimetic inhibitor of multidrug resistance P-glycoprotein. 2010 , 53, 6720-9	22
1556	Bile acids stimulate ATP hydrolysis in the purified cholesterol transporter ABCG5/G8. 2010 , 49, 3403-11	38
1555	Modulation of a Schistosoma mansoni multidrug transporter by the antischistosomal drug praziquantel. 2010 , 24, 128-35	27
1554	Dynamics and structural changes induced by ATP binding in SAV1866, a bacterial ABC exporter. 2010 , 114, 15948-57	39
1553	Insights into the molecular mechanism of an ABC transporter: conformational changes in the NBD dimer of MJ0796. 2010 , 114, 5486-96	29
1552	Overcoming multidrug-resistance in cancer: statins offer a logical candidate. 2010 , 74, 237-9	9
1551	Structure of a human multidrug transporter in an inward-facing conformation. 2010 , 170, 540-7	27

1550	The multidrug resistance half-transporter ABCG2 is purified as a tetramer upon selective extraction from membranes. 2010 , 1798, 2094-101	22
1549	Human P-glycoprotein is active when the two halves are clamped together in the closed conformation. 2010 , 395, 436-40	52
1548	Fungal PDR transporters: Phylogeny, topology, motifs and function. 2010 , 47, 127-42	111
1547	Role of basic residues within or near the predicted transmembrane helix 2 of the human breast cancer resistance protein in drug transport. 2010 , 333, 670-81	22
1546	Perspectives of P-glycoprotein modulating agents in oncology and neurodegenerative diseases: pharmaceutical, biological, and diagnostic potentials. 2010 , 53, 1883-97	94
1545	The permeability P-glycoprotein: a focus on enantioselectivity and brain distribution. 2010 , 6, 953-65	21
1544	P-glycoprotein related drug interactions: clinical importance and a consideration of disease states. 2010 , 6, 603-19	60
1543	Supportive Cancer Care with Chinese Medicine. 2010 ,	9
1542	Synthesis, molecular structure, and validation of metalloprobes for assessment of MDR1 P-glycoprotein-mediated functional transport. 2010 , 39, 5842-50	21
1541	From taxuspine x to structurally simplified taxanes with remarkable p-glycoprotein inhibitory activity. 2010 , 1, 416-21	5
1540	Drug transport by breast cancer resistance protein. 2010 , 6, 1363-84	23
1539	Metalloprobes for functional monitoring of tumour multidrug resistance by nuclear imaging. 2011 , 40, 5377-93	22
1538	COX-2 contributes to P-glycoprotein-mediated multidrug resistance via phosphorylation of c-Jun at Ser63/73 in colorectal cancer. 2011 , 32, 667-75	63
1537	A critical analysis of the interplay between cytochrome P450 3A and P-glycoprotein: recent insights from knockout and transgenic mice. 2011 , 63, 390-410	85
1536	The first nucleotide binding domain of the sulfonylurea receptor 2A contains regulatory elements and is folded and functions as an independent module. 2011 , 50, 6655-66	12
1535	Membrane Transporters: Molecular Machines Coupling Cellular Energy to Vectorial Transport Across the Membrane. 2011 , 151-181	
1534	Conformational coupling of the nucleotide-binding and the transmembrane domains in ABC transporters. 2011 , 101, 680-90	43
1533	Development of EGFR-targeted polymer blend nanocarriers for combination paclitaxel/lonidamine delivery to treat multi-drug resistance in human breast and ovarian tumor cells. 2011 , 8, 185-203	117

1532	Pharmacogenetics of drug transporters in the enterohepatic circulation. 2011 , 12, 611-31	30
1531	The P-glycoprotein multidrug transporter. 2011 , 50, 161-78	336
1530	Biological and Biochemical Aspects of Tellurium Derivatives. 2011 ,	
1529	Homology modeling and binding site assessment of the human P-glycoprotein. 2011 , 3, 297-307	16
1528	ABC transporters, mechanisms and biology: an overview. 2011 , 50, 1-17	60
1527	Natural history of ABC systems: not only transporters. 2011 , 50, 19-42	27
1526	Structure of ABC transporters. 2011 , 50, 43-61	64
1525	Catalytic and transport cycles of ABC exporters. 2011 , 50, 63-83	44
1524	Efflux of Drugs via Transporters The Antiabsorption Pathway. 2011 , 111-126	2
1523	Functional Classification of Plant Plasma Membrane Transporters. 2011 , 131-176	8
1522	The multidrug transporter Pdr5: a molecular diode?. 2011 , 392, 53-60	21
1521	Probing the stereoselectivity of P-glycoprotein-synthesis, biological activity and ligand docking studies of a set of enantiopure benzopyrano[3,4-b][1,4]oxazines. 2011 , 47, 2586-8	16
1520	The Plant Plasma Membrane. 2011 ,	8
1519	Virtual Screening on Homology Models. 2011 , 381-410	3
1518	Targeting the multidrug ABCG2 transporter with flavonoidic inhibitors: in vitro optimization and in vivo validation. 2011 , 18, 3387-401	30
1517	Crystal structure of the maltose transporter in a pretranslocation intermediate state. <i>Science</i> , 2011 , 332, 1202-5	33-3 172
1516	Cells as factories for humanized encapsulation. 2011 , 11, 2152-6	55
1515	Homology modeling of transporter proteins (carriers and ion channels). 2012 , 857, 281-99	18

1514	The novel potent multidrug resistance inhibitors N,N-bis(cyclohexanol)amine aryl esters are devoid of vascular effects. 2011 , 88, 137-41	2
1513	Cystic Fibrosis. 2011 ,	2
1512	Discovery, synthesis, and biological evaluation of novel SMN protein modulators. 2011 , 54, 6215-33	37
1511	The structural basis of modularity in ECF-type ABC transporters. 2011 , 18, 755-60	77
1510	First characterization of fish P-glycoprotein (abcb1) substrate specificity using determinations of its ATPase activity and calcein-AM assay with PLHC-1/dox cell line. 2011 , 103, 53-62	24
1509	MicroRNA-122 sensitizes HCC cancer cells to adriamycin and vincristine through modulating expression of MDR and inducing cell cycle arrest. 2011 , 310, 160-9	149
1508	Modulation of fungal sensitivity to staurosporine by targeting proteins identified by transcriptional profiling. 2011 , 48, 1130-8	18
1507	Domain location within the cystic fibrosis transmembrane conductance regulator protein investigated by electron microscopy and gold labelling. 2011 , 1808, 399-404	26
1506	ATP hydrolysis at one of the two sites in ABC transporters initiates transport related conformational transitions. 2011 , 1808, 2954-64	35
1505	The emergence of drug transporter-mediated multidrug resistance to cancer chemotherapy. 2011 , 8, 1996-2011	159
1504	Expression and function of human MRP1 (ABCC1) is dependent on amino acids in cytoplasmic loop 5 and its interface with nucleotide binding domain 2. 2011 , 286, 7202-13	25
1503	Total synthesis of natural and non-natural (5,6)(12,13)-jatrophane diterpenes and their evaluation as MDR modulators. 2011 , 76, 512-22	42
1502	An update on ABCB1 pharmacogenetics: insights from a 3D model into the location and evolutionary conservation of residues corresponding to SNPs associated with drug pharmacokinetics. 2011 , 11, 315-25	49
1501	Toward understanding the mechanism of action of the yeast multidrug resistance transporter Pdr5p: a molecular modeling study. 2011 , 173, 333-44	39
1500	Snapshots of the maltose transporter during ATP hydrolysis. 2011 , 108, 15152-6	156
1499	A novel method using confocal laser scanning microscopy for sensitive measurement of P-glycoprotein-mediated transport activity in Caco-2 cells. 2011 , 63, 1015-21	2
1498	Toward a better pharmacophore description of P-glycoprotein modulators, based on macrocyclic diterpenes from Euphorbia species. 2011 , 51, 1315-24	54
1497	ABCB1 protects kidney proximal tubule cells against cadmium-induced apoptosis: roles of cadmium and ceramide transport. 2011 , 121, 343-56	43

1496	. 2011,	26
1495	The Flippase Delusion?. 2011, 225-249	
1494	Protein Modeling. 2011,	
1493	. 2011,	13
1492	Effect of Verapamil on Serum Level of Salinomycin in Diabetic Rats. 2011, 8, 860-863	
1491	Microbial efflux pump inhibition: tactics and strategies. 2011, 17, 1291-302	110
1490	Predicting P-glycoprotein-mediated drug transport based on support vector machine and three-dimensional crystal structure of P-glycoprotein. 2011, 6, e25815	89
1489	A single acidic residue can guide binding site selection but does not govern QacR cationic-drug affinity. 2011, 6, e15974	12
1488	Structuring detergents for extracting and stabilizing functional membrane proteins. 2011, 6, e18036	71
1487	The phosphodiesterase-5 inhibitor vardenafil is a potent inhibitor of ABCB1/P-glycoprotein transporter. 2011, 6, e19329	62
1486	Optimized purification of a heterodimeric ABC transporter in a highly stable form amenable to 2-D crystallization. 2011, 6, e19677	29
1485	A gene optimization strategy that enhances production of fully functional P-glycoprotein in Pichia pastoris. 2011, 6, e22577	77
1484	Blood-brain barrier P-glycoprotein function in neurodegenerative disease. 2011, 17, 2771-7	60
1483	P-glycoprotein inhibition: the past, the present and the future. 2011, 12, 722-31	67
1482	Very important pharmacogene summary: ABCB1 (MDR1, P-glycoprotein). 2011, 21, 152-61	274
1481	ABCC6 as a target in pseudoxanthoma elasticum. 2011, 12, 671-82	37
1480	Structural and functional diversity of lantibiotic immunity proteins. 2011, 12, 1231-9	9
1479	Drug-Metabolizing Enzymes, Transporters, and DrugDrug Interactions. 2011, 83-149	1

1478	Expression Systems: <i>Pichia pastoris</i> . 2011 , 75-108	4
1477	Insights into the mechanisms underlying CFTR channel activity, the molecular basis for cystic fibrosis and strategies for therapy. 2011 , 50, 233-48	31
1476	The controversial role of ABC transporters in clinical oncology. 2011 , 50, 209-32	151
1475	Chimeras of <i>Candida albicans</i> Cdr1p and Cdr2p reveal features of pleiotropic drug resistance transporter structure and function. 2011 , 82, 416-33	22
1474	A defective ABC transporter of the MRP family, responsible for the bean lpa1 mutation, affects the regulation of the phytic acid pathway, reduces seed myo-inositol and alters ABA sensitivity. 2011 , 191, 70-83	88
1473	Dysregulated pH: a perfect storm for cancer progression. 2011 , 11, 671-7	1283
1472	Overcoming barriers to membrane protein structure determination. 2011 , 29, 335-40	293
1471	Benchmarking membrane protein detergent stability for improving throughput of high-resolution X-ray structures. 2011 , 19, 17-25	119
1470	Estimation of Michaelis-Menten constant of efflux transporter considering asymmetric permeability. 2011 , 418, 161-7	8
1469	Utility of protein structures in overcoming ADMET-related issues of drug-like compounds. 2011 , 16, 530-8	35
1468	Pharmaceutical drug transport: the issues and the implications that it is essentially carrier-mediated only. 2011 , 16, 704-14	145
1467	Docking and 3D-QSAR (quantitative structure activity relationship) studies of flavones, the potent inhibitors of p-glycoprotein targeting the nucleotide binding domain. 2011 , 46, 4078-88	39
1466	P-glycoprotein limits the absorption of the anti-HIV drug zidovudine through rat intestinal segments. 2011 , 43, 151-9	20
1465	Characterization of rhodamine-123, calcein and 5(6)-carboxy-2',7'-dichlorofluorescein (CDCF) export via MRP2 (ABCC2) in MES-SA and A549 cells. 2011 , 43, 359-69	21
1464	N,N-bis(cyclohexanol)amine aryl esters inhibit P-glycoprotein as transport substrates. 2011 , 82, 1822-31	6
1463	A rapid release of corticosteroid-binding globulin from the liver restrains the glucocorticoid hormone response to acute stress. 2011 , 152, 3738-48	74
1462	Advances in the production of membrane proteins in <i>Pichia pastoris</i> . 2011 , 6, 700-6	25
1461	2-Aminothiazoles as therapeutic leads for prion diseases. 2011 , 54, 1010-21	119

1460	ATP binding cassette systems: structures, mechanisms, and functions. 2011 , 6, 785-801	22
1459	P-glycoprotein substrate models using support vector machines based on a comprehensive data set. 2011 , 51, 1447-56	67
1458	Influence of P-glycoprotein on embryotoxicity of the antifouling biocides to sea urchin (<i>Strongylocentrotus intermedius</i>). 2011 , 20, 419-28	12
1457	Uniform isotope labeling of a eukaryotic seven-transmembrane helical protein in yeast enables high-resolution solid-state NMR studies in the lipid environment. 2011 , 49, 151-61	40
1456	Transverse and tangential orientation of predicted transmembrane fragments 4 and 10 from the human multidrug resistance protein (hMRP1/ABCC1) in membrane mimics. 2011 , 40, 1043-60	7
1455	The "multi" of drug resistance explained by oscillating drug transporters, drug-membrane physical interactions and spatial dimensionality. 2011 , 61, 103-13	13
1454	Conformational changes induced by ATP-hydrolysis in an ABC transporter: a molecular dynamics study of the Sav1866 exporter. 2011 , 79, 1977-90	53
1453	Structural consequences of ATP hydrolysis on the ABC transporter NBD dimer: molecular dynamics studies of HlyB. 2011 , 20, 1220-30	36
1452	Liquid chromatography/tandem mass spectrometry based targeted proteomics quantification of P-glycoprotein in various biological samples. 2011 , 25, 1715-24	33
1451	Substrate- and species-dependent inhibition of P-glycoprotein-mediated transport: implications for predicting in vivo drug interactions. 2011 , 100, 3055-3061	34
1450	Combating cystic fibrosis: in search for CF transmembrane conductance regulator (CFTR) modulators. 2011 , 6, 243-51	7
1449	Development of a highly specific ensemble of topological models for early identification of P-glycoprotein substrates. 2011 , 25, 313-322	6
1448	Design and synthesis of Selenazole-containing peptides for cocrystallization with P-glycoprotein. 2011 , 12, 868-73	18
1447	Inhibition of P-glycoprotein-mediated Multidrug Resistance (MDR) by N,N-bis(cyclohexanol)amine aryl esters: further restriction of molecular flexibility maintains high potency and efficacy. 2011 , 21, 106-9	12
1446	Automated radiosynthesis of [¹¹ C]morphine for clinical investigation. 2011 , 69, 431-5	1
1445	Strategies to optimize the brain availability of central nervous system drug candidates. 2011 , 6, 371-81	45
1444	In-silico ADME models: a general assessment of their utility in drug discovery applications. 2011 , 11, 358-81	116
1443	Use of shape similarities for the classification of P-glycoprotein substrates and nonsubstrates. 2011 , 3, 1117-28	6

1442	In silico, in vitro and in situ models to assess interplay between CYP3A and P-gp. 2011 , 12, 750-73	30
1441	The significance of chirality in drug design and development. 2011 , 11, 760-70	284
1440	Structural and functional properties of human multidrug resistance protein 1 (MRP1/ABCC1). 2011 , 18, 439-81	89
1439	The role of p-glycoprotein in psychiatric disorders: a reliable guard of the brain?. 2011 , 11, 197-209	8
1438	ABC proteins protect the human body and maintain optimal health. 2011 , 75, 401-9	58
1437	pH-Dependent transport of pemetrexed by breast cancer resistance protein. 2011 , 39, 1478-85	25
1436	Sildenafil reverses ABCB1- and ABCG2-mediated chemotherapeutic drug resistance. 2011 , 71, 3029-41	139
1435	Thermally unstable gating of the most common cystic fibrosis mutant channel (F508): "rescue" by suppressor mutations in nucleotide binding domain 1 and by constitutive mutations in the cytosolic loops. 2011 , 286, 41937-41948	40
1434	Probing conformational rescue induced by a chemical corrector of F508del-cystic fibrosis transmembrane conductance regulator (CFTR) mutant. 2011 , 286, 24714-25	29
1433	Solution NMR studies of periplasmic binding proteins and their interaction partners. 2011 , 2, 53-64	6
1432	Molecular dissection of dual pseudosymmetric solute translocation pathways in human P-glycoprotein. 2011 , 79, 443-52	42
1431	Comparative Study on the MDR Reversal Effects of Selected Chalcones. 2011 , 2011, 530780	1
1430	Multidrug resistance in breast cancer: from in vitro models to clinical studies. 2011 , 2011, 967419	93
1429	Drug resistance in epilepsy and the ABCB1 gene: The clinical perspective. 2011 , 17 Suppl 1, S12-21	6
1428	Corpora amylacea deposition in the hippocampus of patients with mesial temporal lobe epilepsy: A new role for an old gene?. 2011 , 17 Suppl 1, S41-7	6
1427	Enhancement of oral bioavailability of 20(S)-ginsenoside Rh2 through improved understanding of its absorption and efflux mechanisms. 2011 , 39, 1866-72	63
1426	Recognition of sulfonylurea receptor (ABCC8/9) ligands by the multidrug resistance transporter P-glycoprotein (ABCB1): functional similarities based on common structural features between two multispecific ABC proteins. 2011 , 286, 3552-69	25
1425	Specific lipids modulate the transporter associated with antigen processing (TAP). 2011 , 286, 13346-56	22

1424	A unified view of cystic fibrosis transmembrane conductance regulator (CFTR) gating: combining the allostereism of a ligand-gated channel with the enzymatic activity of an ATP-binding cassette (ABC) transporter. 2011 , 286, 12813-9	36
1423	Antimicrobial and efflux pump inhibitory activity of caffeoylquinic acids from <i>Artemisia absinthium</i> against gram-positive pathogenic bacteria. 2011 , 6, e18127	104
1422	The choreography of multidrug export. 2011 , 39, 807-11	11
1421	ABC multidrug transporters: target for modulation of drug pharmacokinetics and drug-drug interactions. 2011 , 12, 600-20	123
1420	The clinical impact of ABCB1 polymorphisms on the treatment of psychiatric diseases. 2011 , 17, 2843-51	16
1419	Conformational analysis of human ATP-binding cassette transporter ABCB1 in lipid nanodiscs and inhibition by the antibodies MRK16 and UIC2. 2011 , 286, 39489-96	59
1418	P-glycoprotein retains drug-stimulated ATPase activity upon covalent linkage of the two nucleotide binding domains at their C-terminal ends. 2011 , 286, 10476-82	35
1417	Asymmetric ATP hydrolysis cycle of the heterodimeric multidrug ABC transport complex TmrAB from <i>Thermus thermophilus</i> . 2011 , 286, 7104-15	44
1416	The cystic fibrosis transmembrane conductance regulator (CFTR): three-dimensional structure and localization of a channel gate. 2011 , 286, 42647-42654	58
1415	Structural contributions to multidrug recognition in the multidrug resistance (MDR) gene regulator, BmrR. 2011 , 108, 11046-51	32
1414	Structural basis for the channel function of a degraded ABC transporter, CFTR (ABCC7). 2011 , 138, 495-507	55
1413	Revisiting the ABCs of multidrug resistance in cancer chemotherapy. 2011 , 12, 570-94	155
1412	Inter-domain communication mechanisms in an ABC importer: a molecular dynamics study of the MalFGK2E complex. 2011 , 7, e1002128	28
1411	Predicting binding to p-glycoprotein by flexible receptor docking. 2011 , 7, e1002083	78
1410	Imaging of multidrug resistance in cancer. 2011 , 11, 1-8	32
1409	Exhaustive sampling of docking poses reveals binding hypotheses for propafenone type inhibitors of P-glycoprotein. 2011 , 7, e1002036	65
1408	Synthesis and biological activities of a 3'-azido analogue of Doxorubicin against drug-resistant cancer cells. 2012 , 13, 3671-84	10
1407	A novel chemometric method for the prediction of human oral bioavailability. 2012 , 13, 6964-82	399

1406	Overcoming multidrug-resistance in vitro and in vivo using the novel P-glycoprotein inhibitor 1416. 2012 , 32, 559-66	26
1405	Stereoselective regulations of P-glycoprotein by ginsenoside Rh2 epimers and the potential mechanisms from the view of pharmacokinetics. 2012 , 7, e35768	27
1404	The ATPase activity of the P-glycoprotein drug pump is highly activated when the N-terminal and central regions of the nucleotide-binding domains are linked closely together. 2012 , 287, 26806-16	48
1403	Two neonatal diabetes mutations on transmembrane helix 15 of SUR1 increase affinity for ATP and ADP at nucleotide binding domain 2. 2012 , 287, 17985-95	24
1402	Mitigating the inhibition of human bile salt export pump by drugs: opportunities provided by physicochemical property modulation, in silico modeling, and structural modification. 2012 , 40, 2332-41	66
1401	Overton's rule helps to estimate the penetration of anti-infectives into patients' cerebrospinal fluid. 2012 , 56, 979-88	13
1400	Programmed reduction of ABC transporter activity in sea urchin germline progenitors. 2012 , 139, 783-92	27
1399	A novel flow cytometric HTS assay reveals functional modulators of ATP binding cassette transporter ABCB6. 2012 , 7, e40005	12
1398	Three decades of P-gp inhibitors: skimming through several generations and scaffolds. 2012 , 19, 1946-2025	332
1397	Structure and ligand-based design of P-glycoprotein inhibitors: a historical perspective. 2012 , 18, 4197-214	38
1396	CNS drug development - lost in translation?. 2012 , 12, 959-70	25
1395	Physicochemical property space of hepatobiliary transport and computational models for predicting rat biliary excretion. 2012 , 40, 1527-37	58
1394	Localization and substrate selectivity of sea urchin multidrug (MDR) efflux transporters. 2012 , 287, 43876-83	47
1393	Dynamic ligand-induced conformational rearrangements in P-glycoprotein as probed by fluorescence resonance energy transfer spectroscopy. 2012 , 287, 1112-27	71
1392	Time-resolved Fourier transform infrared spectroscopy of the nucleotide-binding domain from the ATP-binding Cassette transporter MsbA: ATP hydrolysis is the rate-limiting step in the catalytic cycle. 2012 , 287, 23923-31	21
1391	The human transporter associated with antigen processing: molecular models to describe peptide binding competent states. 2012 , 287, 28099-111	22
1390	Dynamics of a bacterial multidrug ABC transporter in the inward- and outward-facing conformations. 2012 , 109, 10832-6	84
1389	Pediatric Biomedical Informatics. 2012 ,	3

1388	Asymmetry in the homodimeric ABC transporter MsbA recognized by a DARPIn. 2012 , 287, 20395-406	42
1387	Two ATPases. 2012 , 287, 30049-62	18
1386	Identification of a novel post-hydrolytic state in CFTR gating. 2012 , 139, 359-70	18
1385	Nonintegral stoichiometry in CFTR gating revealed by a pore-lining mutation. 2012 , 140, 347-59	31
1384	Colon adenocarcinoma multidrug resistance reverted by Euphorbia diterpenes: structure-activity relationships and pharmacophore modeling. 2012 , 12, 1015-24	21
1383	[Dysfunction of the blood-brain barrier during ischaemia: a therapeutic concern]. 2012 , 206, 161-76	2
1382	PET and SPECT in Cancer Theragnostics. 2012 , 979-1014	
1381	Zafirlukast antagonizes ATP-binding cassette subfamily G member 2-mediated multidrug resistance. 2012 , 23, 865-73	21
1380	Cells as factories for humanized encapsulation. 2012 ,	
1379	Foxp3 overexpression decreases sensitivity to chemotherapy in mouse Lewis lung cancer cells. 2012 , 6, 977-82	13
1378	Multifunctional magnetic Fe ₃ O ₄ nanoparticles combined with chemotherapy and hyperthermia to overcome multidrug resistance. 2012 , 7, 2261-9	48
1377	Assessment of extracts from red yeast rice for herb-drug interaction by in-vitro and in-vivo assays. 2012 , 2, 298	18
1376	Tools for eradicating HIV in the brain: prodrug dimeric inhibitors of P-gp. 2012 , 3, 689-92	6
1375	HG-829 is a potent noncompetitive inhibitor of the ATP-binding cassette multidrug resistance transporter ABCB1. 2012 , 72, 4204-13	11
1374	Oligomerization of polytopic helical membrane proteins: causes and consequences. 2012 , 393, 1215-30	18
1373	A universally conserved residue in the SUR1 subunit of the KATP channel is essential for translating nucleotide binding at SUR1 into channel opening. 2012 , 590, 5025-36	10
1372	Knowledge-Based, Central Nervous System (CNS) Lead Selection and Lead Optimization for CNS Drug Discovery. 2012 , 3, 50-68	267
1371	Intestinal permeability of lamivudine (3TC) and two novel 3TC prodrugs. Experimental and theoretical analyses. 2012 , 47, 965-78	3

1370	Yeast ATP-binding cassette transporters conferring multidrug resistance. 2012 , 66, 39-63	159
1369	Contrasting cellular uptake pathways for chlorido and iodido iminopyridine ruthenium arene anticancer complexes. 2012 , 4, 1271-9	49
1368	ABC transporters and immunity: mechanism of self-defense. 2012 , 51, 4981-9	29
1367	ABC Transporters in Human Disease. 2012 , 1, 1-84	1
1366	ABC Drug Transporters and Their Impact on Drug Disposition/Drug Sensitivity and Resistance. 2012 , 1	
1365	Estrogen receptor β attenuates therapeutic efficacy of paclitaxel on breast xenograft tumors. 2012 , 134, 969-80	16
1364	A Study on Protein (P-glycoprotein) Homology Detection using Hidden Markov Model. 2012 , 38, 3541-3546	1
1363	Evidence for modulatory sites at the lipid-protein interface of the human multidrug transporter P-glycoprotein. 2012 , 51, 2852-66	12
1362	The blood-testis barrier and its implications for male contraception. 2012 , 64, 16-64	501
1361	Human and rat ABC transporter efflux of bisphenol a and bisphenol a glucuronide: interspecies comparison and implications for pharmacokinetic assessment. 2012 , 128, 317-25	49
1360	Neratinib reverses ATP-binding cassette B1-mediated chemotherapeutic drug resistance in vitro, in vivo, and ex vivo. 2012 , 82, 47-58	79
1359	Enantiomeric pairs reveal that key medicinal chemistry parameters vary more than simple physical property based models can explain. 2012 , 3, 528	23
1358	Novel cGMP efflux inhibitors identified by virtual ligand screening (VLS) and confirmed by experimental studies. 2012 , 55, 3049-57	19
1357	Amlodipine, clopidogrel and CYP3A5 genetic variability: effects on platelet reactivity and clinical outcomes after percutaneous coronary intervention. 2012 , 98, 1366-72	30
1356	Ribosomal route to small-molecule diversity. 2012 , 134, 418-25	94
1355	Mechanisms of drug resistance reversal in Dox-resistant MCF-7 cells by pH-responsive amphiphilic polyphosphazene containing diisopropylamino side groups. 2012 , 9, 1109-17	27
1354	idTarget: a web server for identifying protein targets of small chemical molecules with robust scoring functions and a divide-and-conquer docking approach. 2012 , 40, W393-9	130
1353	Ion binding and internal hydration in the multidrug resistance secondary active transporter NorM investigated by molecular dynamics simulations. 2012 , 51, 1281-7	28

1352	Cystic fibrosis transmembrane conductance regulator: a molecular model defines the architecture of the anion conduction path and locates a "bottleneck" in the pore. 2012 , 51, 2199-212	51
1351	The effects of neurological disorder-related codon variations of ABCA13 on the function of the ABC protein. 2012 , 76, 2289-93	9
1350	Probing the ATP hydrolysis cycle of the ABC multidrug transporter LmrA by pulsed EPR spectroscopy. 2012 , 134, 5857-62	43
1349	Perspectives on the structure-function of ABC transporters: the Switch and Constant Contact models. 2012 , 109, 95-107	94
1348	Molecular dynamics simulations of the bacterial ABC transporter SAV1866 in the closed form. 2012 , 116, 2934-42	34
1347	Structural modifications that alter the P-glycoprotein efflux properties of compounds. 2012 , 55, 4877-95	143
1346	Toward eradicating HIV reservoirs in the brain: inhibiting P-glycoprotein at the blood-brain barrier with prodrug abacavir dimers. 2012 , 134, 2976-80	49
1345	Insights on P-Glycoprotein's Efflux Mechanism Obtained by Molecular Dynamics Simulations. 2012 , 8, 1853-64	79
1344	Ser/Thr motifs in transmembrane proteins: conservation patterns and effects on local protein structure and dynamics. 2012 , 245, 717-30	30
1343	Peroxisomal ABC transporters: structure, function and role in disease. 2012 , 1822, 1387-96	114
1342	Identification of an amino acid residue in ATP-binding cassette transport G1 critical for mediating cholesterol efflux. 2012 , 1821, 552-9	13
1341	Alanine scanning of all cysteines and construction of a functional cysteine-less Cdr1p, a multidrug ABC transporter of <i>Candida albicans</i> . 2012 , 417, 508-13	4
1340	Is the restricted ketogenic diet a viable alternative to the standard of care for managing malignant brain cancer?. 2012 , 100, 310-26	44
1339	Click chemistry-derived bivalent quinine inhibitors of P-glycoprotein-mediated cellular efflux. 2012 , 22, 4410-2	15
1338	Crystal structure of the multidrug transporter P-glycoprotein from <i>Caenorhabditis elegans</i> . 2012 , 490, 566-9	378
1337	4-Isloxazolyl-1,4-dihydropyridines exhibit binding at the multidrug-resistance transporter. 2012 , 20, 6613-20	15
1336	Annotating Human P-Glycoprotein Bioassay Data. 2012 , 31, 599-609	27
1335	Biochemistry and Pharmacology of Human ABC11/MRP1 and Its Role in Detoxification and in Multidrug Resistance of Cancer Chemotherapy. 2012 , 371-404	2

1334	A pleiotropic drug resistance transporter in <i>Nicotiana tabacum</i> is involved in defense against the herbivore <i>Manduca sexta</i> . 2012 , 72, 745-57	42
1333	Potent galloyl-based selective modulators targeting multidrug resistance associated protein 1 and P-glycoprotein. 2012 , 55, 424-36	30
1332	Crystal structure of a heterodimeric ABC transporter in its inward-facing conformation. 2012 , 19, 395-402	204
1331	Phyllanthin and hypophyllanthin inhibit function of P-gp but not MRP2 in Caco-2 cells. 2013 , 65, 292-9	7
1330	6.6 Structures and Mechanisms in Chloride Channels. 2012 , 142-176	1
1329	8.8 Molecular Aspects of the Translocation Process by ABC Proteins. 2012 , 145-173	6
1328	Nothing in Cancer Biology Makes Sense Except in the Light of Evolution. 2012 , 261-275	4
1327	Cancer Treatment Strategies. 2012 , 277-289	
1326	Amine linked flavonoid dimers as modulators for P-glycoprotein-based multidrug resistance: structure-activity relationship and mechanism of modulation. 2012 , 55, 1999-2014	56
1325	Catalytic transitions in the human MDR1 P-glycoprotein drug binding sites. 2012 , 51, 5125-41	70
1324	Regulatory pathways for ATP-binding cassette transport proteins in kidney proximal tubules. 2012 , 14, 883-94	46
1323	Structure-based reassessment of the caveolin signaling model: do caveolae regulate signaling through caveolin-protein interactions?. 2012 , 23, 11-20	101
1322	Progesterone-adenine hybrids as bivalent inhibitors of P-glycoprotein-mediated multidrug efflux: design, synthesis, characterization and biological evaluation. 2012 , 77, 1177-91	6
1321	Learning the ABCs of Bt: ABC transporters and insect resistance to <i>Bacillus thuringiensis</i> provide clues to a crucial step in toxin mode of action. 2012 , 104, 103-110	115
1320	An amino acid substitution in <i>Fasciola hepatica</i> P-glycoprotein from triclabendazole-resistant and triclabendazole-susceptible populations. 2012 , 186, 69-72	26
1319	BBA, a derivative of 23-hydroxybetulinic acid, potently reverses ABCB1-mediated drug resistance in vitro and in vivo. 2012 , 9, 3147-59	38
1318	Theoretical Framework III: Biological Membrane Permeation. 2012 , 64-121	
1317	Physiology of Gastrointestinal Tract and Other Administration Sites in Humans and Animals. 2012 , 160-205	

1316	Development of peptide-based reversing agents for p-glycoprotein-mediated resistance to carfilzomib. 2012 , 9, 2197-205	37
1315	ABCA4 is an N-retinylidene-phosphatidylethanolamine and phosphatidylethanolamine importer. 2012 , 3, 925	165
1314	Antitumor agents. 293. Nontoxic dimethyl-4,4'-dimethoxy-5,6,5',6'-dimethylenedioxybiphenyl-2,2'-dicarboxylate (DDB) analogues chemosensitize multidrug-resistant cancer cells to clinical anticancer drugs. 2012 , 55, 5413-24	27
1313	Enhancing chemosensitivity in ABCB1- and ABCG2-overexpressing cells and cancer stem-like cells by an Aurora kinase inhibitor CCT129202. 2012 , 9, 1971-82	33
1312	The pharmacology and formulation of paliperidone extended release. 2012 , 12, 1399-410	13
1311	Artemether resistance in vitro is linked to mutations in PfATP6 that also interact with mutations in PfMDR1 in travellers returning with Plasmodium falciparum infections. 2012 , 11, 131	29
1310	NMR and fluorescence studies of drug binding to the first nucleotide binding domain of SUR2A. 2012 , 51, 9211-22	7
1309	Single-vesicle estimation of ATP-binding cassette transporters in microfluidic channels. 2012 , 12, 702-4	7
1308	A mutation in intracellular loop 4 affects the drug-efflux activity of the yeast multidrug resistance ABC transporter Pdr5p. 2012 , 7, e29520	8
1307	Prediction of promiscuous p-glycoprotein inhibition using a novel machine learning scheme. 2012 , 7, e33829	21
1306	Integrated analysis of residue coevolution and protein structure in ABC transporters. 2012 , 7, e36546	12
1305	Clitocine reversal of P-glycoprotein associated multi-drug resistance through down-regulation of transcription factor NF- κ B in R-HepG2 cell line. 2012 , 7, e40720	49
1304	A system-level investigation into the mechanisms of Chinese Traditional Medicine: Compound Danshen Formula for cardiovascular disease treatment. 2012 , 7, e43918	122
1303	A measure of the broad substrate specificity of enzymes based on 'duplicate' catalytic residues. 2012 , 7, e49313	11
1302	Development of CFTR Structure. 2012 , 3, 162	14
1301	Mechanisms of CFTR Folding at the Endoplasmic Reticulum. 2012 , 3, 201	63
1300	Plant Lessons: Exploring ABCB Functionality Through Structural Modeling. 2011 , 2, 108	36
1299	Homology modeling and structural analysis of human P-glycoprotein. 2012 , 8, 1066-74	8

1298	Nonequilibrium gating of CFTR on an equilibrium theme. 2012 , 27, 351-61	31
1297	Cyclosporin safety in a simplified rat brain tumor implantation model. 2012 , 70, 52-8	1
1296	Bioinformatics and variability in drug response: a protein structural perspective. 2012 , 9, 1409-37	57
1295	Structure-activity relationships, ligand efficiency, and lipophilic efficiency profiles of benzophenone-type inhibitors of the multidrug transporter P-glycoprotein. 2012 , 55, 3261-73	76
1294	P-glycoprotein-based loperamide-cyclosporine drug interaction at the rat blood-brain barrier: prediction from in vitro studies and extrapolation to humans. 2012 , 9, 629-33	25
1293	Regulation of ABCB1/PGP1-catalysed auxin transport by linker phosphorylation. 2012 , 31, 2965-80	86
1292	Chalcogenopyrylium compounds as modulators of the ATP-binding cassette transporters P-glycoprotein (P-gp/ABCB1) and multidrug resistance protein 1 (MRP1/ABCC1). 2012 , 55, 4683-99	38
1291	Inhibition of P-glycoprotein leads to improved oral bioavailability of compound K, an anticancer metabolite of red ginseng extract produced by gut microflora. 2012 , 40, 1538-44	54
1290	The Effect of Environment on the Structure of a Membrane Protein: P-Glycoprotein under Physiological Conditions. 2012 , 8, 3964-76	40
1289	Molecular dynamics simulations of membrane proteins. 2012 , 4, 271-282	9
1288	Targeting of multidrug-resistant human ovarian carcinoma cells with anti-P-glycoprotein antibody conjugates. 2012 , 12, 502-14	14
1287	ATP-binding cassette (ABC) transporter expression and localization in sea urchin development. 2012 , 241, 1111-24	42
1286	Multiple ligand docking by Glide: implications for virtual second-site screening. 2012 , 26, 821-34	17
1285	Testing physical models of passive membrane permeation. 2012 , 52, 1621-36	76
1284	Multidrug resistance protein P-glycoprotein does not recognize nanoparticle C60: experiment and modeling. 2012 , 8, 2915	45
1283	Drug transporters in drug efficacy and toxicity. 2012 , 52, 249-73	253
1282	The molecular interaction of a copper chelate with human P-glycoprotein. 2012 , 364, 309-20	15
1281	Lack of a pharmacokinetic drug-drug interaction with venlafaxine extended-release/indinavir and desvenlafaxine extended-release/indinavir. 2012 , 68, 715-21	8

1280	Interactions between antidepressants and P-glycoprotein at the blood-brain barrier: clinical significance of in vitro and in vivo findings. 2012 , 165, 289-312	135
1279	The Arabidopsis concentration-dependent influx/efflux transporter ABCB4 regulates cellular auxin levels in the root epidermis. 2012 , 69, 640-54	117
1278	Asymmetric states of vitamin B12 transporter BtuCD are not discriminated by its cognate substrate binding protein BtuF. 2012 , 586, 972-6	26
1277	Toward in silico structure-based ADMET prediction in drug discovery. 2012 , 17, 44-55	171
1276	Computational models for predicting substrates or inhibitors of P-glycoprotein. 2012 , 17, 343-51	107
1275	Evaluation of intracellular trafficking and clearance from HeLa cells of doxorubicin-bound block copolymers. 2012 , 423, 401-9	25
1274	Impact of probe compound in MRP2 vesicular transport assays. 2012 , 46, 100-5	28
1273	ABC transporters and their role in nucleoside and nucleotide drug resistance. 2012 , 83, 1073-83	80
1272	GW583340 and GW2974, human EGFR and HER-2 inhibitors, reverse ABCG2- and ABCB1-mediated drug resistance. 2012 , 83, 1613-22	55
1271	Phenylalanine 368 of multidrug resistance-associated protein 4 (MRP4/ABCC4) plays a crucial role in substrate-specific transport activity. 2012 , 84, 366-73	24
1270	TAT-modified nanosilver for combating multidrug-resistant cancer. 2012 , 33, 6155-61	162
1269	Synthesis and biological evaluation of bifendate-chalcone hybrids as a new class of potential P-glycoprotein inhibitors. 2012 , 20, 2540-8	33
1268	Anti-AIDS agents 89. Identification of DCX derivatives as anti-HIV and chemosensitizing dual function agents to overcome P-gp-mediated drug resistance for AIDS therapy. 2012 , 22, 3219-22	1
1267	Strategies to potentiate antimicrobial photoinactivation by overcoming resistant phenotypes. 2012 , 88, 499-511	92
1266	Determining P-glycoprotein-drug interactions: evaluation of reconstituted P-glycoprotein in a liposomal system and LLC-MDR1 polarized cell monolayers. 2012 , 65, 64-74	27
1265	Taxol-oligoarginine conjugates overcome drug resistance in-vitro in human ovarian carcinoma. 2012 , 126, 118-23	23
1264	Specific interactions between the Candida albicans ABC transporter Cdr1p ectodomain and a D-octapeptide derivative inhibitor. 2012 , 85, 747-67	36
1263	Nutlin-1 strengthened anti-proliferation and differentiation-inducing activity of ATRA in ATRA-treated p-glycoprotein deregulated human myelocytic leukemia cells. 2012 , 30, 37-47	3

1262	Differential contribution of TM6 and TM12 to the pore of CFTR identified by three sulfonyleurea-based blockers. 2012 , 463, 405-18	32
1261	Saracatinib (AZD0530) is a potent modulator of ABCB1-mediated multidrug resistance in vitro and in vivo. 2013 , 132, 224-35	35
1260	Recent attempts at RNAi-mediated P-glycoprotein downregulation for reversal of multidrug resistance in cancer. 2013 , 33, 33-53	53
1259	NtPDR1, a plasma membrane ABC transporter from <i>Nicotiana tabacum</i> , is involved in diterpene transport. 2013 , 82, 181-92	91
1258	A morphometric approach for the accurate solvation thermodynamics of proteins and ligands. 2013 , 34, 1969-74	8
1257	ABC multidrug transporters in schistosomes and other parasitic flatworms. 2013 , 62, 647-53	30
1256	New tacrine analogs as acetylcholinesterase inhibitors - theoretical study with chemometric analysis. 2013 , 18, 2878-94	10
1255	2D- and 3D-QSAR studies of a series of benzopyranes and benzopyrano[3,4b][1,4]-oxazines as inhibitors of the multidrug transporter P-glycoprotein. 2013 , 27, 161-71	13
1254	Localization of putative binding sites for cyclic guanosine monophosphate and the anti-cancer drug 5-fluoro-2'-deoxyuridine-5'-monophosphate on ABCC11 in silico models. 2013 , 13, 7	8
1253	Importance of the difference in surface pressures of the cell membrane in doxorubicin resistant cells that do not express Pgp and ABCG2. 2013 , 66, 499-512	6
1252	Nanoparticle-mediated drug delivery to tumor neovasculature to combat P-gp expressing multidrug resistant cancer. 2013 , 34, 6163-74	66
1251	A P-gp vesicular transport inhibition assay - optimization and validation for drug-drug interaction testing. 2013 , 49, 773-81	26
1250	The interaction between human breast cancer resistance protein (BCRP) and five bisbenzylisoquinoline alkaloids. 2013 , 453, 371-9	19
1249	Integration of in silico and in vitro tools for scaffold optimization during drug discovery: predicting P-glycoprotein efflux. 2013 , 10, 1249-61	66
1248	P-glycoprotein (Mdr1a/1b) and breast cancer resistance protein (Bcrp) decrease the uptake of hydrophobic alkyl triphenylphosphonium cations by the brain. 2013 , 1830, 3458-65	18
1247	Interactions of the multidrug resistance modulators tariquidar and elacridar and their analogues with P-glycoprotein. 2013 , 8, 1701-13	22
1246	[11C]quinidine and [11C]laniquidar PET imaging in a chronic rodent epilepsy model: impact of epilepsy and drug-responsiveness. 2013 , 40, 764-75	20
1245	Substrate-dependent ligand inhibition of the human organic cation transporter OCT2. 2013 , 346, 300-10	72

1244	Cysteine scanning of CFTR's first transmembrane segment reveals its plausible roles in gating and permeation. 2013 , 104, 786-97	40
1243	Synthesis of azole-enriched cyclic peptides by a clean solid-phase-based cyclization-cleavage strategy. 2013 , 15, 447-51	7
1242	Molecular pharmacology of ABCG2 and its role in chemoresistance. 2013 , 84, 655-69	152
1241	Mutations in intracellular loops 1 and 3 lead to misfolding of human P-glycoprotein (ABCB1) that can be rescued by cyclosporine A, which reduces its association with chaperone Hsp70. 2013 , 288, 32622-32636 ¹⁹	
1240	Dose-dependent targeted suppression of P-glycoprotein expression and function in Caco-2 cells. 2013 , 10, 2323-30	16
1239	Structures of P-glycoprotein reveal its conformational flexibility and an epitope on the nucleotide-binding domain. 2013 , 110, 13386-91	197
1238	Clinically significant drug interactions with atypical antipsychotics. 2013 , 27, 1021-48	66
1237	The CFTR ion channel: gating, regulation, and anion permeation. 2013 , 3, a009498	90
1236	P-glycoprotein is responsible for the poor intestinal absorption and low toxicity of oral aconitine: in vitro, in situ, in vivo and in silico studies. 2013 , 273, 561-8	26
1235	New structure-activity relationship studies in a series of N,N-bis(cyclohexanol)amine aryl esters as potent reversers of P-glycoprotein-mediated multidrug resistance (MDR). 2013 , 21, 456-65	12
1234	Abcb4 acts as multixenobiotic transporter and active barrier against chemical uptake in zebrafish (<i>Danio rerio</i>) embryos. 2013 , 11, 69	114
1233	Combined QSAR and molecule docking studies on predicting P-glycoprotein inhibitors. 2013 , 27, 1067-73	26
1232	Binding of modulators to mouse and human multidrug resistance P-glycoprotein. A computational study. 2013 , 46, 10-21	33
1231	Protein modeling: what happened to the "protein structure gap"?. 2013 , 21, 1531-40	89
1230	Evidence and Rational Based Research on Chinese Drugs. 2013 ,	11
1229	Exploiting nanotechnology to overcome tumor drug resistance: Challenges and opportunities. 2013 , 65, 1731-47	189
1228	ABC Transporters. 2013 , 7-11	3
1227	Conserved Walker A cysteines 431 and 1074 in human P-glycoprotein are accessible to thiol-specific agents in the apo and ADP-vanadate trapped conformations. 2013 , 52, 7327-38	8

1226	Homodimers of the Antiviral Abacavir as Modulators of P-glycoprotein Transport in Cell Culture: Probing Tether Length. 2013 , 4,	7
1225	Protein contacts and ligand binding in the inward-facing model of human P-glycoprotein. 2013 , 8, 748-62	32
1224	Cystic fibrosis transmembrane conductance regulator (ABCC7) structure. 2013 , 3, a009514	42
1223	Boundary of the nucleotide-binding domain of Streptococcus ComA based on functional and structural analysis. 2013 , 52, 2545-55	9
1222	Confounding parameters in preclinical assessment of blood-brain barrier permeation: an overview with emphasis on species differences and effect of disease states. 2013 , 10, 1581-95	70
1221	Polymer-drug conjugates: origins, progress to date and future directions. 2013 , 65, 49-59	287
1220	Discovery of agonists of cannabinoid receptor 1 with restricted central nervous system penetration aimed for treatment of gastroesophageal reflux disease. 2013 , 56, 220-40	14
1219	The promiscuous binding of pharmaceutical drugs and their transporter-mediated uptake into cells: what we (need to) know and how we can do so. 2013 , 18, 218-39	120
1218	The power stroke driven by ATP binding in CFTR as studied by molecular dynamics simulations. 2013 , 117, 83-93	30
1217	Dynamics and structural changes induced by ATP and/or substrate binding in the inward-facing conformation state of P-glycoprotein. 2013 , 557, 145-149	13
1216	Reversal of ATP-binding cassette drug transporter activity to modulate chemoresistance: why has it failed to provide clinical benefit?. 2013 , 32, 211-27	98
1215	The role of lipids in defining membrane protein interactions: insights from mass spectrometry. 2013 , 23, 1-8	114
1214	A conserved interdomain communication pathway of pseudosymmetrically distributed residues affects substrate specificity of the fungal multidrug transporter Cdr1p. 2013 , 1828, 479-90	15
1213	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. 2013 , 30, 108-60	1298
1212	Targeted delivery of doxorubicin through conjugation with EGF receptor-binding peptide overcomes drug resistance in human colon cancer cells. 2013 , 168, 1719-35	25
1211	QSAR studies of macrocyclic diterpenes with P-glycoprotein inhibitory activity. 2013 , 48, 542-53	20
1210	Role of ABC transporters in lipid transport and human disease. 2013 , 24, 342-50	185
1209	Yeast-expressed human membrane protein aquaporin-1 yields excellent resolution of solid-state MAS NMR spectra. 2013 , 55, 147-55	29

1208	Missense mutations in the ABCB6 transporter cause dominant familial pseudohyperkalemia. 2013 , 88, 66-72	54
1207	Absolute abundance and function of intestinal drug transporters: a prerequisite for fully mechanistic in vitro-in vivo extrapolation of oral drug absorption. 2013 , 34, 2-28	84
1206	In vitro to in vivo evidence of the inhibitor characteristics of Schisandra lignans toward P-glycoprotein. 2013 , 20, 1030-8	20
1205	Can long range mechanical interaction between drugs and membrane proteins define the notion of molecular promiscuity? Application to P-glycoprotein-mediated multidrug resistance (MDR). 2013 , 1830, 5112-8	9
1204	P-glycoprotein is fully active after multiple tryptophan substitutions. 2013 , 1828, 1159-68	13
1203	Structure-activity relationships of chromone derivatives toward the mechanism of interaction with and inhibition of breast cancer resistance protein ABCG2. 2013 , 56, 9849-60	25
1202	Substrate translocation and stimulated ATP hydrolysis of human ABC transporter MRP3 show positive cooperativity and are half-coupled. 2013 , 171, 31-7	13
1201	Berberine analogue IMB-Y53 improves glucose-lowering efficacy by averting cellular efflux especially P-glycoprotein efflux. 2013 , 62, 446-56	37
1200	P-gp substrate-induced neurotoxicity in an Abcb1a knock-in/Abcb1b knock-out mouse model with a mutated canine ABCB1 targeted insertion. 2013 , 94, 656-61	8
1199	Molecular mechanism of the Escherichia coli maltose transporter. 2013 , 23, 492-8	63
1198	Inhibition of ATP-Binding Cassette Transporters by Chinese Herbs and Phytochemicals. 2013 , 283-331	0
1197	Mechanism of the ABC transporter ATPase domains: catalytic models and the biochemical and biophysical record. 2013 , 48, 39-50	53
1196	The role of proton dynamics in the development and maintenance of multidrug resistance in cancer. 2013 , 1832, 606-17	80
1195	Simulation studies of the mechanism of membrane transporters. 2013 , 924, 361-405	7
1194	Predicting efflux ratios and blood-brain barrier penetration from chemical structure: combining passive permeability with active efflux by P-glycoprotein. 2013 , 4, 361-7	22
1193	Advances in PET imaging of P-glycoprotein function at the blood-brain barrier. 2013 , 4, 225-37	54
1192	Fluorescent substrates for flow cytometric evaluation of efflux inhibition in ABCB1, ABCC1, and ABCG2 transporters. 2013 , 437, 77-87	47
1191	Mammalian P4-ATPases and ABC transporters and their role in phospholipid transport. 2013 , 1831, 555-74	98

1190	Lipid bilayer properties control membrane partitioning, binding, and transport of p-glycoprotein substrates. 2013 , 52, 343-54	58
1189	The P-glycoprotein transport system and cardiovascular drugs. 2013 , 61, 2495-502	243
1188	Structure-activity relationships and in silico models of P-glycoprotein (ABCB1) inhibitors. 2013 , 43, 1018-26	17
1187	New approaches for understanding mechanisms of drug resistance in schistosomes. 2013 , 140, 1534-46	77
1186	3,5-Bis(arylidene)piperid-4-ones Containing 1,3,2-Oxazaphosphorinane Moieties: Synthesis and Antitumor Activity. 2013 , 24, 191-199	6
1185	Drugs for Cancer. 2013 , 270-285	
1184	20(S)-Protopanaxadiol (PPD) analogues chemosensitize multidrug-resistant cancer cells to clinical anticancer drugs. 2013 , 21, 4279-87	18
1183	Evaluation of the contribution of the ATP binding cassette transporter, P-glycoprotein, to in vivo cholesterol homeostasis. 2013 , 10, 3203-12	7
1182	Sterols and sphingolipids differentially function in trafficking of the Arabidopsis ABCB19 auxin transporter. 2013 , 74, 37-47	49
1181	Organic Stereochemistry. Part 5. 2013 , 96, 747-798	17
1180	Subcellular localization and logistics of integral membrane protein biogenesis in Escherichia coli. 2013 , 23, 24-34	7
1179	ABCB1 Structural Models, Molecular Docking, and Synthesis of New Oxadiazolothiazin-3-one Inhibitors. 2013 , 4, 694-8	16
1178	Rapid expression screening of eukaryotic membrane proteins in Pichia pastoris. 2013 , 22, 425-33	21
1177	Pharmacophore-based drug design and biological evaluation of novel ABCB1 inhibitors. 2013 , 81, 349-58	4
1176	Identification of P-glycoprotein inhibitors in contaminated freshwater sediments. 2013 , 47, 4813-21	15
1175	Molecular docking characterizes substrate-binding sites and efflux modulation mechanisms within P-glycoprotein. 2013 , 53, 1747-60	111
1174	Engineered nanostructured B-sheet peptides protect membrane proteins. 2013 , 10, 759-61	93
1173	Influence of lipids on protein-mediated transmembrane transport. 2013 , 169, 57-71	29

1172	In silico model for P-glycoprotein substrate prediction: insights from molecular dynamics and in vitro studies. 2013 , 27, 347-63	24
1171	Principles of biofouling protection in marine sponges: a model for the design of novel biomimetic and bio-inspired coatings in the marine environment?. 2013 , 15, 375-98	37
1170	Common folds and transport mechanisms of secondary active transporters. 2013 , 42, 51-72	200
1169	A salt bridge in intracellular loop 2 is essential for folding of human p-glycoprotein. 2013 , 52, 3194-6	20
1168	Substrate versus inhibitor dynamics of P-glycoprotein. 2013 , 81, 1653-68	30
1167	Computer modeling of blood brain barrier permeability for physiologically active compounds. 2013 , 7, 95-107	5
1166	Molecular organization and ATP-induced conformational changes of ABCA4, the photoreceptor-specific ABC transporter. 2013 , 21, 854-60	46
1165	Establishment of a robust hepatitis C virus replicon cell line over-expressing P-glycoprotein that facilitates analysis of P-gp drug transporter effects on inhibitor antiviral activity. 2013 , 85, 21-8	2
1164	Nilotinib potentiates anticancer drug sensitivity in murine ABCB1-, ABCG2-, and ABCC10-multidrug resistance xenograft models. 2013 , 328, 307-17	92
1163	Sav1866 from Staphylococcus aureus and P-glycoprotein: similarities and differences in ATPase activity assessed with detergents as allocrites. 2013 , 52, 3297-309	16
1162	De novo prediction of p-glycoprotein-mediated efflux liability for druglike compounds. 2013 , 4, 108-12	9
1161	Deducing Transport Protein Evolution Based on Sequence, Structure, and Function. 2013 , 315-339	1
1160	X-linked Adrenoleukodystrophy. 2013 , 2, 1-134	6
1159	Structures of ABCB10, a human ATP-binding cassette transporter in apo- and nucleotide-bound states. 2013 , 110, 9710-5	193
1158	Testing of SNS-032 in a Panel of Human Neuroblastoma Cell Lines with Acquired Resistance to a Broad Range of Drugs. 2013 , 6, 685-96	20
1157	Tissue Analysis for Drug Development. 2013 ,	
1156	Enhancing macrocyclic diterpenes as multidrug-resistance reversers: structure-activity studies on jolkinol D derivatives. 2013 , 56, 748-60	49
1155	Mechanistic picture for conformational transition of a membrane transporter at atomic resolution. 2013 , 110, 18916-21	105

- 1154 Drug rescue distinguishes between different structural models of human P-glycoprotein. **2013**, 52, 7167-9 18
- 1153 Functional impact of a single mutation within the transmembrane domain of the multidrug ABC transporter Pdr5. **2013**, 52, 2184-95 15
- 1152 CJY, an isoflavone, interacts with ATPase of P-glycoprotein in the rat brain microvessel endothelial cells (RBMECs). **2013**, 25, 347-54
- 1151 Multidrug resistance protein P-gp interaction with nanoparticles (fullerenes and carbon nanotube) to assess their drug delivery potential: a theoretical molecular docking study. **2013**, 6, 343-57 27
- 1150 Regulatory R region of the CFTR chloride channel is a dynamic integrator of phospho-dependent intra- and intermolecular interactions. **2013**, 110, E4427-36 110
- 1149 Human P-glycoprotein differentially affects antidepressant drug transport: relevance to blood-brain barrier permeability. **2013**, 16, 2259-72 28
- 1148 Molecular cloning and characterization of a P-glycoprotein from the diamondback moth, *Plutella xylostella* (Lepidoptera: Plutellidae). **2013**, 14, 22891-905 17
- 1147 Adjudin disrupts spermatogenesis by targeting drug transporters: Lesson from the breast cancer resistance protein (BCRP). **2013**, 3, e24993 8
- 1146 Bipiperidinyl derivatives of 23-hydroxybetulinic acid reverse resistance of HepG2/ADM and MCF-7/ADR cells. **2013**, 24, 441-54 6
- 1145 Further advances in the production of membrane proteins in *Pichia pastoris*. **2013**, 4, 363-7 15
- 1144 Transporter-mediated biofuel secretion. **2013**, 110, 7642-7 97
- 1143 Development of novel, 384-well high-throughput assay panels for human drug transporters: drug interaction and safety assessment in support of discovery research. **2013**, 18, 1072-83 13
- 1142 The transmission interface of the *Saccharomyces cerevisiae* multidrug transporter Pdr5: Val-656 located in intracellular loop 2 plays a major role in drug resistance. **2013**, 57, 1025-34 28
- 1141 Multidrug resistance-associated protein 2 (MRP2/ABCC2). **2013**, 261-294 1
- 1140 Mass spectrometry reveals synergistic effects of nucleotides, lipids, and drugs binding to a multidrug resistance efflux pump. **2013**, 110, 9704-9 128
- 1139 Interaction of digitalis-like compounds with p-glycoprotein. **2013**, 131, 502-11 23
- 1138 Biology and Regulation of Blood-Tissue Barriers. **2013**, 2 2
- 1137 Cost, effectiveness and environmental relevance of multidrug transporters in sea urchin embryos. **2013**, 216, 3896-905 16

1136	The flexibility of P-glycoprotein for its poly-specific drug binding from molecular dynamics simulations. 2013 , 31, 612-29	24
1135	Molecular insight into conformational transmission of human P-glycoprotein. 2013 , 139, 225102	18
1134	Molecular docking studies of a quassinoid and P-glycoprotein. 2013 ,	
1133	Assessing the Stabilization of P-Glycoprotein's Nucleotide-Binding Domains by the Linker, Using Molecular Dynamics. 2013 , 32, 529-40	15
1132	Tetrameric structure of SUR2B revealed by electron microscopy of oriented single particles. 2013 , 280, 1051-63	8
1131	Substrate binding stabilizes a pre-translocation intermediate in the ATP-binding cassette transport protein MsbA. 2013 , 288, 21638-47	38
1130	Human P-glycoprotein contains a greasy ball-and-socket joint at the second transmission interface. 2013 , 288, 20326-33	36
1129	Analyses of conformational states of the transporter associated with antigen processing (TAP) protein in a native cellular membrane environment. 2013 , 288, 37039-47	15
1128	Insight into pleiotropic drug resistance ATP-binding cassette pump drug transport through mutagenesis of Cdr1p transmembrane domains. 2013 , 288, 24480-93	37
1127	Retrospective analysis of P-glycoprotein-mediated drug-drug interactions at the blood-brain barrier in humans. 2013 , 41, 683-8	19
1126	Structures of a Na ⁺ -coupled, substrate-bound MATE multidrug transporter. 2013 , 110, 2099-104	111
1125	On the origin of large flexibility of P-glycoprotein in the inward-facing state. 2013 , 288, 19211-20	101
1124	P-glycoprotein (P-gp/MDR1)/ABCB1. 2013 , 147-259	4
1123	Tetrandrine potentiates the hypoglycemic efficacy of berberine by inhibiting P-glycoprotein function. 2013 , 36, 1562-9	34
1122	Practical considerations for the design of tissue pharmacokinetic studies. 2013 , 56-68	
1121	The Roles of Membrane Transporters on the Oral Drug Absorption. 2013 , 1,	6
1120	Microbial efflux systems and inhibitors: approaches to drug discovery and the challenge of clinical implementation. 2013 , 7, 34-52	94
1119	Inhibition of P-glycoprotein by HIV protease inhibitors increases intracellular accumulation of berberine in murine and human macrophages. 2013 , 8, e54349	30

1118	Discovery of the inhibitory effect of a phosphatidylinositol derivative on P-glycoprotein by virtual screening followed by in vitro cellular studies. 2013 , 8, e60679	7
1117	Transcriptional regulation of the ABCC6 gene and the background of impaired function of missense disease-causing mutations. 2013 , 4, 27	12
1116	P-glycoprotein inhibition as a therapeutic approach for overcoming multidrug resistance in cancer: current status and future perspectives. 2013 , 13, 326-46	262
1115	Multidrug Resistance Membrane Proteins. 2013 , 210-214	1
1114	Substrate recognition by P-glycoprotein efflux transporters: Structure-ATPase activity relationship of diverse chemicals and agrochemicals. 2013 , 38, 112-122	4
1113	Epothilones: From discovery to clinical trials. 2014 , 14, 2312-21	37
1112	Structural characterization of two metastable ATP-bound states of P-glycoprotein. 2014 , 9, e91916	24
1111	Stubborn contaminants: influence of detergents on the purity of the multidrug ABC transporter BmrA. 2014 , 9, e114864	18
1110	Multidrug Resistance Protein. 2014 , 141-160	3
1109	Evaluation of Anti-Cancer Potential of Capsaicin-Loaded Trimethyl Chitosan-Based Nanoparticles in HepG2 Hepatocarcinoma Cells. 2014 , 05,	10
1108	Nucleotide-free Crystal Structure of Nucleotide-binding Domain 1 from Human ABCC1 Supports a General-Base Catalysis Mechanism for ATP Hydrolysis. 2014 , 03,	
1107	Marine natural products with P-glycoprotein inhibitor properties. 2014 , 12, 525-46	55
1106	Karanjin interferes with ABCB1, ABCC1, and ABCG2. 2014 , 17, 92-105	15
1105	In silico structure-based screening of versatile P-glycoprotein inhibitors using polynomial empirical scoring functions. 2014 , 7, 1-9	21
1104	Differential effects of the oncogenic BRAF inhibitor PLX4032 (vemurafenib) and its progenitor PLX4720 on ABCB1 function. 2014 , 17, 154-68	12
1103	Do ABC proteins still have a role to play in acute myeloid leukemia?. 2014 , 20, 264-275	
1102	Lapatinib antagonizes multidrug resistance-associated protein 1-mediated multidrug resistance by inhibiting its transport function. 2014 , 20, 390-9	28
1101	. 2014 ,	8

1100	Membrane transporters and transporter substrates as biomarkers for drug pharmacokinetics, pharmacodynamics, and toxicity/adverse events. 2014 , 947-963	2
1099	Structure of an antibacterial peptide ATP-binding cassette transporter in a novel outward occluded state. 2014 , 111, 9145-50	155
1098	Breast Cancer Resistance Protein (BCRP) or ABCG2. 2014 , 187-221	1
1097	Multiple drugs compete for transport via the Plasmodium falciparum chloroquine resistance transporter at distinct but interdependent sites. 2014 , 289, 36336-51	28
1096	Advances in investigations on the mechanism of cancer multidrug resistance and the liposomes-based treatment strategy. 2014 , 44, 493-504	6
1095	A Microscopic View of the Mechanisms of Active Transport Across the Cellular Membrane. 2014 , 10, 77-125	3
1094	Two ABCB4 point mutations of strategic NBD-motifs do not prevent protein targeting to the plasma membrane but promote MDR3 dysfunction. 2014 , 22, 633-9	14
1093	Structural basis for allosteric cross-talk between the asymmetric nucleotide binding sites of a heterodimeric ABC exporter. 2014 , 111, 11025-30	90
1092	Structural Characterization of the Drug Translocation Path of MRP1/ABCC1. 2014 , 54, 1382-1393	5
1091	Docking applied to the prediction of the affinity of compounds to P-glycoprotein. 2014 , 2014, 358425	23
1090	Repositioning of Tyrosine Kinase Inhibitors as Antagonists of ATP-Binding Cassette Transporters in Anticancer Drug Resistance. 2014 , 6, 1925-52	46
1089	Directed evolution of P-glycoprotein cysteines reveals site-specific, non-conservative substitutions that preserve multidrug resistance. 2014 , 34,	8
1088	Complex Interplay between the P-Glycoprotein Multidrug Efflux Pump and the Membrane: Its Role in Modulating Protein Function. 2014 , 4, 41	164
1087	Membrane Protein Production for Structural Analysis. 2014 , 1-44	1
1086	Molecular mechanisms for biliary phospholipid and drug efflux mediated by ABCB4 and bile salts. 2014 , 2014, 954781	41
1085	Expression levels of P-glycoprotein in peripheral blood CD8+ T lymphocytes from HIV-1-infected patients on antiretroviral therapy. 2014 , 33, 431-40	5
1084	Mechanistic determinants of the directionality and energetics of active export by a heterodimeric ABC transporter. 2014 , 5, 5419	73
1083	In silico screening for inhibitors of p-glycoprotein that target the nucleotide binding domains. 2014 , 86, 716-26	17

1082	Massenspektrometrie zur Quantifizierung von Wechselwirkungen zwischen Proteinen Von molekularen Chaperonen zu Membranporinen. 2014 , 126, 14224-14238	4
1081	Computational classification models for predicting the interaction of drugs with P-glycoprotein and breast cancer resistance protein. 2014 , 25, 939-66	22
1080	Refined structures of mouse P-glycoprotein. 2014 , 23, 34-46	281
1079	Cationic oligo(p-phenylene vinylene) materials for combating drug resistance of cancer cells by light manipulation. 2014 , 26, 5986-90	42
1078	Charge reduction stabilizes intact membrane protein complexes for mass spectrometry. 2014 , 136, 17010-2	56
1077	Pregnane X Receptor and P-glycoprotein: a connexion for Alzheimer's disease management. 2014 , 18, 895-909	12
1076	Bifendate-chalcone hybrids: a new class of potential dual inhibitors of P-glycoprotein and breast cancer resistance protein. 2014 , 455, 318-22	13
1075	Structural basis and dynamics of multidrug recognition in a minimal bacterial multidrug resistance system. 2014 , 111, E5498-507	16
1074	P-glycoprotein (P-gp)-mediated efflux limits intestinal absorption of the Hsp90 inhibitor SNX-2112 in rats. 2014 , 44, 763-8	10
1073	The Q loops of the human multidrug resistance transporter ABCB1 are necessary to couple drug binding to the ATP catalytic cycle. 2014 , 28, 4335-46	33
1072	Mechanism of the C5 stereoinversion reaction in the biosynthesis of carbapenem antibiotics. <i>Science</i> , 2014 , 343, 1140-4	33-3 103
1071	Correlation-based network analysis of cancer metabolism. 2014 ,	3
1070	Three charged amino acids in extracellular loop 1 are involved in maintaining the outer pore architecture of CFTR. 2014 , 144, 159-79	24
1069	Comparative analysis of ABCB1 reveals novel structural and functional conservation between monocots and dicots. 2014 , 5, 657	19
1068	MDR-1 and MRP2 Gene Polymorphisms in Mexican Epileptic Pediatric Patients with Complex Partial Seizures. 2014 , 5, 184	18
1067	Schistosome ABC multidrug transporters: From pharmacology to physiology. 2014 , 4, 301-9	25
1066	Small and Innovative Molecules as New Strategy to Revert MDR. 2014 , 4, 2	59
1065	Drug-resistant Th17 cells: culprits in steroid-refractory Crohn's disease?. 2014 , 6, 503-6	

1064	Identification of the distance between the homologous halves of P-glycoprotein that triggers the high/low ATPase activity switch. 2014 , 289, 8484-92	19
1063	Generating symmetry in the asymmetric ATP-binding cassette (ABC) transporter Pdr5 from <i>Saccharomyces cerevisiae</i> . 2014 , 289, 15272-9	27
1062	Ligand and structure-based classification models for prediction of P-glycoprotein inhibitors. 2014 , 54, 218-29	81
1061	Multifunctional nanoparticles for brain tumor imaging and therapy. 2014 , 66, 42-57	226
1060	Enhanced doxorubicin delivery and cytotoxicity in multidrug resistant cancer cells using multifunctional magnetic nanoparticles. 2014 , 113, 249-53	19
1059	Nitensidine A, a guanidine alkaloid from <i>Pterogyne nitens</i> , is a novel substrate for human ABC transporter ABCB1. 2014 , 21, 323-32	28
1058	Acerinol, a cyclolanthane triterpenoid from <i>Cimicifuga acerina</i> , reverses ABCB1-mediated multidrug resistance in HepG2/ADM and MCF-7/ADR cells. 2014 , 733, 34-44	15
1057	Macromolecular therapeutics. 2014 , 190, 288-303	55
1056	Triterpenoids as reversal agents for anticancer drug resistance treatment. 2014 , 19, 482-8	48
1055	Structural diversity of ABC transporters. 2014 , 143, 419-35	241
1054	Philadelphia chromosome-negative very high-risk acute lymphoblastic leukemia in children and adolescents: results from Children's Oncology Group Study AALL0031. 2014 , 28, 964-7	21
1053	Structural basis for heavy metal detoxification by an Atm1-type ABC exporter. <i>Science</i> , 2014 , 343, 1133-633	130
1052	Computational models for predicting the interaction with ABC transporters. 2014 , 12, e69-77	12
1051	Reaction dynamics of ATP hydrolysis catalyzed by P-glycoprotein. 2014 , 53, 991-1000	12
1050	Enzyme Kinetics in Drug Metabolism. 2014 ,	7
1049	Towards understanding promiscuity in multidrug efflux pumps. 2014 , 39, 8-16	96
1048	CFTR structure and cystic fibrosis. 2014 , 52, 15-25	48
1047	Euphorbia and Momordica metabolites for overcoming multidrug resistance. 2014 , 13, 915-935	29

1046	In vivo methods for drug absorption - comparative physiologies, model selection, correlations with in vitro methods (IVIVC), and applications for formulation/API/excipient characterization including food effects. 2014 , 57, 99-151	196
1045	Fluorescent probes of the isoxazole-dihydropyridine scaffold: MDR-1 binding and homology model. 2014 , 24, 117-21	11
1044	Discovery of novel P-glycoprotein-mediated multidrug resistance inhibitors bearing triazole core via click chemistry. 2014 , 84, 182-91	18
1043	Modelling three-dimensional protein structures for applications in drug design. 2014 , 19, 890-7	108
1042	Advances in P-glycoprotein-based approaches for delivering anticancer drugs: pharmacokinetic perspective and clinical relevance. 2014 , 11, 121-38	53
1041	ABC Transporters and Their Role in Protecting Insects from Pesticides and Their Metabolites. 2014 , 1-72	60
1040	Developmental and pathological angiogenesis in the central nervous system. 2014 , 71, 3489-506	77
1039	The central cavity of ABCB1 undergoes alternating access during ATP hydrolysis. 2014 , 281, 2190-2201	30
1038	Synthesis, cytotoxic study and docking based multidrug resistance modulator potential analysis of 2-(9-oxoacridin-10(9H)-yl)-N-phenyl acetamides. 2014 , 80, 83-91	21
1037	SLC22, SLC44, and SLC47 transporters--organic anion and cation transporters: molecular and cellular properties. 2014 , 73, 233-61	43
1036	Compounds from Chinese herbal medicines as reversal agents for P-glycoprotein-mediated multidrug resistance in tumours. 2014 , 16, 593-8	21
1035	A reciprocating twin-channel model for ABC transporters. 2014 , 47, 189-220	29
1034	Molecular modelling approaches for cystic fibrosis transmembrane conductance regulator studies. 2014 , 52, 39-46	5
1033	Chemoinformatic and Chemogenomic Approach to ADMET. 2014 , 125-143	
1032	Drug promiscuity of P-glycoprotein and its mechanism of interaction with paclitaxel and doxorubicin. 2014 , 10, 438-45	33
1031	The role of transporters in toxicity and disease. 2014 , 42, 541-5	25
1030	ADMET evaluation in drug discovery. 13. Development of in silico prediction models for P-glycoprotein substrates. 2014 , 11, 716-26	70
1029	Optimization in Drug Discovery. 2014 ,	16

1028	Screening for P-Glycoprotein (Pgp) Substrates and Inhibitors. 2014 , 337-352	
1027	The network of P-glycoprotein and microRNAs interactions. 2014 , 135, 253-63	41
1026	Inhibitory effects of herbal constituents on P-glycoprotein in vitro and in vivo: herb-drug interactions mediated via P-gp. 2014 , 275, 163-75	74
1025	Synthesis and evaluation of Strychnos alkaloids as MDR reversal agents for cancer cell eradication. 2014 , 22, 1148-55	27
1024	Pro-inflammatory human Th17 cells selectively express P-glycoprotein and are refractory to glucocorticoids. 2014 , 211, 89-104	291
1023	Computational methods in drug discovery. 2014 , 66, 334-95	953
1022	Structural comparison of DNA polymerase architecture suggests a nucleotide gateway to the polymerase active site. 2014 , 114, 2759-74	34
1021	Nano-enabled delivery systems across the blood-brain barrier. 2014 , 37, 24-30	51
1020	New examples of membrane protein expression and purification using the yeast based Pdr1-3 expression strategy. 2014 , 191, 158-64	4
1019	SAR studies on tetrahydroisoquinoline derivatives: the role of flexibility and bioisosterism to raise potency and selectivity toward P-glycoprotein. 2014 , 57, 9983-94	21
1018	Functional architecture of the CFTR chloride channel. 2014 , 31, 1-16	41
1017	Elucidation of the structural basis of interaction of the BCR-ABL kinase inhibitor, nilotinib (Tasigna) with the human ABC drug transporter P-glycoprotein. 2014 , 28, 961-4	10
1016	Improving the MDR reversal activity of 6,17-epoxylathyrane diterpenes. 2014 , 22, 6392-400	27
1015	Delivery of antihuman African trypanosomiasis drugs across the blood-brain and blood-CSF barriers. 2014 , 71, 245-75	15
1014	The origins of cyanobactin chemistry and biology. 2014 , 50, 10174-6	14
1013	Mechanism of cellular accumulation of an iridium(III) pentamethylcyclopentadienyl anticancer complex containing a C,N-chelating ligand. 2014 , 6, 682-90	51
1012	Predicting the outer boundaries of P-glycoprotein (P-gp)-based drug interactions at the human blood-brain barrier based on rat studies. 2014 , 11, 436-44	14
1011	Motesanib (AMG706), a potent multikinase inhibitor, antagonizes multidrug resistance by inhibiting the efflux activity of the ABCB1. 2014 , 90, 367-78	46

1010	Functional expression of drug transporters in glial cells: potential role on drug delivery to the CNS. 2014 , 71, 45-111	20
1009	In vivo imaging of multidrug resistance using a third generation MDR1 inhibitor. 2014 , 25, 1137-42	16
1008	Multidrug resistance (MDR) reversers: High activity and efficacy in a series of asymmetrical N,N-bis(alkanol)amine aryl esters. 2014 , 87, 398-412	17
1007	Molecular docking and P-glycoprotein inhibitory activity of flavonoids. 2014 , 6, 167-75	16
1006	Cell-penetrating, guanidinium-rich molecular transporters for overcoming efflux-mediated multidrug resistance. 2014 , 11, 2553-65	44
1005	Trimethoxybenzanilide-based P-glycoprotein modulators: an interesting case of lipophilicity tuning by intramolecular hydrogen bonding. 2014 , 57, 6403-18	20
1004	Doxorubicin loaded singlet-oxygen producible polymeric micelle based on chlorine e6 conjugated pluronic F127 for overcoming drug resistance in cancer. 2014 , 35, 7963-9	91
1003	Design, synthesis, and biological evaluation of (S)-valine thiazole-derived cyclic and noncyclic peptidomimetic oligomers as modulators of human P-glycoprotein (ABCB1). 2014 , 15, 157-69	15
1002	Osthol and curcumin as inhibitors of human Pgp and multidrug efflux pumps of <i>Staphylococcus aureus</i> : reversing the resistance against frontline antibacterial drugs. 2014 , 5, 1540-1547	34
1001	Overexpression of membrane proteins from higher eukaryotes in yeasts. 2014 , 98, 7671-98	23
1000	Reversible dimers of the atypical antipsychotic quetiapine inhibit p-glycoprotein-mediated efflux in vitro with increased binding affinity and in situ at the blood-brain barrier. 2014 , 5, 305-17	21
999	Translocation mechanism of P-glycoprotein and conformational changes occurring at drug-binding site: Insights from multi-targeted molecular dynamics. 2014 , 1838, 2882-98	42
998	Synthesis and characterization of macromolecular rhodamine tethers and their interactions with P-glycoprotein. 2014 , 25, 1462-9	4
997	Deconstructing breast cancer cell biology and the mechanisms of multidrug resistance. 2014 , 1846, 312-25	42
996	Predicting the activity and toxicity of new psychoactive substances: a pharmaceutical industry perspective. 2014 , 6, 739-45	4
995	Identification of key structural characteristics of <i>Schisandra chinensis</i> lignans involved in P-glycoprotein inhibition. 2014 , 77, 2255-63	19
994	The recombinant expression systems for structure determination of eukaryotic membrane proteins. 2014 , 5, 658-72	66
993	Plant ABC Transporters. 2014 ,	5

992	In silico identification and in vitro validation of potential cholestatic compounds through 3D ligand-based pharmacophore modeling of BSEP inhibitors. 2014 , 27, 873-81	26
991	Quantitative structure activity relationship and docking studies of imidazole-based derivatives as P-glycoprotein inhibitors. 2014 , 23, 4700-4712	8
990	Structure and function of BCRP, a broad specificity transporter of xenobiotics and endobiotics. 2014 , 88, 1205-48	54
989	In Vitro and In Situ evaluation of pH-dependence of atazanavir intestinal permeability and interactions with acid-reducing agents. 2014 , 31, 2404-19	8
988	Crystal structures of nucleotide-free and glutathione-bound mitochondrial ABC transporter Atm1. <i>Science</i> , 2014 , 343, 1137-40	33-3 162
987	Understanding polyspecificity within the substrate-binding cavity of the human multidrug resistance P-glycoprotein. 2014 , 281, 673-82	50
986	Structural basis for gating mechanisms of a eukaryotic P-glycoprotein homolog. 2014 , 111, 4049-54	134
985	Pluronic and MDR reversal: an update. 2014 , 11, 2566-78	156
984	Auxin and Its Role in Plant Development. 2014 ,	28
983	Detergent-free purification of ABC (ATP-binding-cassette) transporters. 2014 , 461, 269-78	138
982	Multidrug resistance in cancer or inefficacy of neuroactive agents: innovative strategies to inhibit or circumvent the active efflux transporters selectively. 2014 , 19, 1563-71	23
981	Successful development and use of a thermodynamic stability screen for optimizing the yield of nucleotide binding domains. 2014 , 103, 38-47	9
980	Drug resistance is conferred on the model yeast <i>Saccharomyces cerevisiae</i> by expression of full-length melanoma-associated human ATP-binding cassette transporter ABCB5. 2014 , 11, 3452-62	9
979	Structure and function of the bacterial heterodimeric ABC transporter CydDC: stimulation of ATPase activity by thiol and heme compounds. 2014 , 289, 23177-23188	10
978	Intercellular Transport of Auxin. 2014 , 75-100	8
977	ATP-induced conformational changes of nucleotide-binding domains in an ABC transporter. Importance of the water-mediated entropic force. 2014 , 118, 12612-20	17
976	Differential effects of membrane cholesterol content on the transport activity of multidrug resistance-associated protein 2 (ABCC2) and of the bile salt export pump (ABCB11). 2014 , 85, 909-20	32
975	Polymorphisms of the drug transporters ABCB1, ABCG2, ABCC2 and ABCC3 and their impact on drug bioavailability and clinical relevance. 2014 , 10, 1337-54	89

974	Overcoming of P-glycoprotein-mediated multidrug resistance of tumors in vivo by drug combinations. 2014 , 1, 44-58	7
973	ABCB4: Insights from pathobiology into therapy. 2014 , 38, 557-63	17
972	Design and synthesis of human ABCB1 (P-glycoprotein) inhibitors by peptide coupling of diverse chemical scaffolds on carboxyl and amino termini of (S)-valine-derived thiazole amino acid. 2014 , 57, 4058-72	39
971	Analyzing conformational dynamics of single P-glycoprotein transporters by Förster resonance energy transfer using hidden Markov models. 2014 , 66, 168-79	22
970	Mutations adjacent to the end of transmembrane helices 6 and 7 independently affect drug efflux capacity of yeast ABC transporter Pdr5p. 2014 , 1838, 932-9	4
969	Synthesis, biological evaluation and 3D-QSAR studies of new chalcone derivatives as inhibitors of human P-glycoprotein. 2014 , 22, 2311-9	33
968	Defining the blanks--pharmacochaperoning of SLC6 transporters and ABC transporters. 2014 , 83, 63-73	33
967	Improving the stability and function of purified ABCB1 and ABCA4: the influence of membrane lipids. 2014 , 1838, 134-47	24
966	Evaluation of P-glycoprotein (abcb1a/b) modulation of [(18)F]fallypride in MicroPET imaging studies. 2014 , 84, 152-8	9
965	Computational Recipe for Efficient Description of Large-Scale Conformational Changes in Biomolecular Systems. 2014 , 10, 2866-2880	52
964	P-glycoprotein-dependent trafficking of nanoparticle-drug conjugates. 2014 , 10, 1719-23	13
963	Catalyst-like modulation of transition states for CFTR channel opening and closing: new stimulation strategy exploits nonequilibrium gating. 2014 , 143, 269-87	15
962	Uptake of compounds that selectively kill multidrug-resistant cells: the copper transporter SLC31A1 (CTR1) increases cellular accumulation of the thiosemicarbazone NSC73306. 2014 , 11, 2692-702	14
961	The DrrAB efflux system of <i>Streptomyces peucetius</i> is a multidrug transporter of broad substrate specificity. 2014 , 289, 12633-46	32
960	Opioids and efflux transporters. Part 4: influence of N-substitution on P-glycoprotein substrate activity of noroxymorphone analogues. 2014 , 24, 3592-5	9
959	Current advances on ABC drug transporters in fish. 2014 , 165, 28-52	69
958	Telatinib reverses chemotherapeutic multidrug resistance mediated by ABCG2 efflux transporter in vitro and in vivo. 2014 , 89, 52-61	43
957	3D cryo-electron reconstruction of BmrA, a bacterial multidrug ABC transporter in an inward-facing conformation and in a lipidic environment. 2014 , 426, 2059-69	25

956	Challenges of using in vitro data for modeling P-glycoprotein efflux in the blood-brain barrier. 2014 , 31, 1-19	23
955	Drug Transport in the Brain. 2014 , 273-301	
954	Efficient and stable reconstitution of the ABC transporter BmrA for solid-state NMR studies. 2014 , 1, 5	21
953	Multidrug resistance ATP-binding cassette membrane transporters as targets for improving oropharyngeal candidiasis treatment. 2014 , 2, 23955	7
952	Transporters in Drug Discovery. 2014 , 371-387	
951	Multidrug and Toxin Extrusion Proteins. 2014 , 223-243	4
950	Purification of the cystic fibrosis transmembrane conductance regulator protein expressed in <i>Saccharomyces cerevisiae</i> . 2014 ,	14
949	Elemene, a compound derived from <i>Rhizoma zedoariae</i> , reverses multidrug resistance mediated by the ABCB1 transporter. 2014 , 31, 858-66	41
948	Mass spectrometry quantifies protein interactions--from molecular chaperones to membrane porins. 2014 , 53, 14002-15	45
947	Cystic Fibrosis and the CFTR Anion Channel. 2015 , 627-648	4
946	Use of Functional Polymorphisms To Elucidate the Peptide Binding Site of TAP Complexes. 2015 , 195, 3436-48	10
945	In silico identified targeted inhibitors of P-glycoprotein overcome multidrug resistance in human cancer cells in culture. 2015 , 3, e00170	10
944	The Influence of Routes of Administration on ADME. 2015 , 22-59	
943	Nobiletin enhances the efficacy of chemotherapeutic agents in ABCB1 overexpression cancer cells. 2015 , 5, 18789	50
942	Diversity of organic structures of marine microbial origin with drug potential. 2015 , 361-380	1
941	Polymeric Stabilizers for Drug Nanocrystals. 2015 , 67-87	1
940	Case Studies of CNS Drug Optimization Medicinal Chemistry and CNS Biology Perspectives. 2015 , 425-445	1
939	Structural basis for the mechanism of ABC transporters. 2015 , 43, 889-93	103

938	Characterizing diverse orthologues of the cystic fibrosis transmembrane conductance regulator protein for structural studies. 2015 , 43, 894-900	2
937	Homology modelling of human P-glycoprotein. 2015 , 43, 952-8	21
936	Providing a molecular mechanism for P-glycoprotein; why would I bother?. 2015 , 43, 995-1002	27
935	Investigating the dynamic nature of the ABC transporters: ABCB1 and MsbA as examples for the potential synergies of MD theory and EPR applications. 2015 , 43, 1023-32	11
934	Structures and functions of mitochondrial ABC transporters. 2015 , 43, 943-51	34
933	The use of a new oral anticoagulant in a transplant patient with chronic kidney disease stage 4. 2015 , 7, 230-233	
932	The transporter associated with antigen processing: a key player in adaptive immunity. 2015 , 396, 1059-72	43
931	Dual actions of albumin packaging and tumor targeting enhance the antitumor efficacy and reduce the cardiotoxicity of doxorubicin in vivo. 2015 , 10, 5327-42	15
930	Structure and Potential Cellular Targets of HAMLET-like Anti-Cancer Compounds made from Milk Components. 2015 , 18, 773-824	18
929	Afatinib reverses multidrug resistance in ovarian cancer via dually inhibiting ATP binding cassette subfamily B member 1. 2015 , 6, 26142-60	50
928	Studying the Impact of Presence of Alpha Acid Glycoprotein and Protein Glycoprotein in Chronic Myeloid Leukemia Patients Treated with Imatinib Mesylate in the State of Qatar. 2015 , 7, 63-7	5
927	Esters of the marine-derived triterpene siphonolol A reverse P-GP-mediated drug resistance. 2015 , 13, 2267-86	15
926	Abraxane, the Nanoparticle Formulation of Paclitaxel Can Induce Drug Resistance by Up-Regulation of P-gp. 2015 , 10, e0131429	52
925	Bypassing P-Glycoprotein Drug Efflux Mechanisms: Possible Applications in Pharmacoresistant Schizophrenia Therapy. 2015 , 2015, 484963	71
924	. 2015 ,	6
923	Semi-synthetic ocotillol analogues as selective ABCB1-mediated drug resistance reversal agents. 2015 , 6, 24277-90	33
922	Equilibrated atomic models of outward-facing P-glycoprotein and effect of ATP binding on structural dynamics. 2015 , 5, 7880	32
921	A mutation within the extended X loop abolished substrate-induced ATPase activity of the human liver ATP-binding cassette (ABC) transporter MDR3. 2015 , 290, 4896-4907	22

920	Structure and mechanism of ABC transporters. 2015 , 7, 14	328
919	ATP-Binding Cassette Transporter Structure Changes Detected by Intramolecular Fluorescence Energy Transfer for High-Throughput Screening. 2015 , 88, 84-94	15
918	Identification of Possible Binding Sites for Morphine and Nicardipine on the Multidrug Transporter P-Glycoprotein Using Umbrella Sampling Techniques. 2015 , 55, 1202-17	23
917	Inhibitory effects of neochamaejasmin B on P-glycoprotein in MDCK-hMDR1 cells and molecular docking of NCB binding in P-glycoprotein. 2015 , 20, 2931-48	16
916	Distinct conformational spectrum of homologous multidrug ABC transporters. 2015 , 23, 450-460	74
915	The role of mitochondria and the CIA machinery in the maturation of cytosolic and nuclear iron-sulfur proteins. 2015 , 94, 280-91	135
914	Modulation of P-Glycoprotein-Mediated Multidrug Resistance by Synthetic and Phytochemical Small Molecules, Monoclonal Antibodies, and Therapeutic Nucleic Acids. 2015 , 153-181	5
913	Revealing the fate of cell surface human P-glycoprotein (ABCB1): The lysosomal degradation pathway. 2015 , 1853, 2361-70	19
912	Computational modeling to predict the functions and impact of drug transporters. 2015 , 3, 8	18
911	The P-glycoprotein inhibitory effect and related mechanisms of thiolated chitosan and its S-protected derivative. 2015 , 5, 104228-104238	6
910	Development of nordihydroguaiaretic acid derivatives as potential multidrug-resistant selective agents for cancer treatment. 2015 , 5, 107833-107838	6
909	Ganoderma lucidum derived ganoderenic acid B reverses ABCB1-mediated multidrug resistance in HepG2/ADM cells. 2015 , 46, 2029-38	27
908	Probing structural determinants of ATP-binding cassette exporter conformational transition using coarse-grained molecular dynamics. 2015 , 119, 1295-301	12
907	Pichia pastoris as an expression host for membrane protein structural biology. 2015 , 32, 9-17	94
906	P-glycoprotein interactions of novel psychoactive substances - stimulation of ATP consumption and transport across Caco-2 monolayers. 2015 , 94, 220-6	25
905	Resistance to Targeted ABC Transporters in Cancer. 2015 ,	3
904	Relevance of P-glycoprotein in stroke prevention with dabigatran, rivaroxaban, and apixaban. 2015 , 40 Suppl 2, 140-5	49
903	Synthesis of new steroidal inhibitors of P-glycoprotein-mediated multidrug resistance and biological evaluation on K562/R7 erythroleukemia cells. 2015 , 58, 1832-45	12

902	Molecular basis of the polyspecificity of P-glycoprotein (ABCB1): recent biochemical and structural studies. 2015 , 125, 71-96	84
901	Lipid regulation of the ABCB1 and ABCG2 multidrug transporters. 2015 , 125, 97-137	22
900	Design, synthesis and biological profile of new inhibitors of multidrug resistance associated proteins carrying a polycyclic scaffold. 2015 , 92, 471-80	21
899	Cytotoxicity of the indole alkaloid reserpine from <i>Rauwolfia serpentina</i> against drug-resistant tumor cells. 2015 , 22, 308-18	48
898	Novel non-substrate modulators of the transmembrane efflux pump P-glycoprotein (ABCB1). 2015 , 6, 860-866	1
897	pH- and NIR Light-Responsive Micelles with Hyperthermia-Triggered Tumor Penetration and Cytoplasm Drug Release to Reverse Doxorubicin Resistance in Breast Cancer. 2015 , 25, 2489-2500	193
896	P-glycoprotein in autoimmune rheumatic diseases. 2015 , 14, 594-600	30
895	Characterizing the binding interactions between P-glycoprotein and eight known cardiovascular transport substrates. 2015 , 3, e00114	14
894	Establishment of P-Glycoprotein Structure-Transport Relationships to Optimize CNS Exposure in Drug Discovery. 2015 , 113-124	
893	Macrocyclic lactones differ in interaction with recombinant P-glycoprotein 9 of the parasitic nematode <i>Cylicocylus elongatus</i> and ketoconazole in a yeast growth assay. 2015 , 11, e1004781	22
892	Snapshots of ligand entry, malleable binding and induced helical movement in P-glycoprotein. 2015 , 71, 732-41	123
891	Do adsorbed drugs onto P-glycoprotein influence its efflux capability?. 2015 , 17, 22023-34	10
890	Inhibitory Effects of Highly Oxygenated Lanostane Derivatives from the Fungus <i>Ganoderma lucidum</i> on P-Glycoprotein and β -Glucosidase. 2015 , 78, 1868-76	41
889	Isotope labeling of eukaryotic membrane proteins in yeast for solid-state NMR. 2015 , 565, 193-212	14
888	P-Glycoprotein-Mediated Multidrug Resistance. 2015 , 228-228	
887	Stearidonic acid, a plant-based dietary fatty acid, enhances the chemosensitivity of canine lymphoid tumor cells. 2015 , 460, 1002-7	11
886	A Transporter Motor Taken Apart: Flexibility in the Nucleotide Binding Domains of a Heterodimeric ABC Exporter. 2015 , 54, 3086-99	15
885	The Fifth Transmembrane Segment of Cystic Fibrosis Transmembrane Conductance Regulator Contributes to Its Anion Permeation Pathway. 2015 , 54, 3839-50	16

884	Diaminotiazoles evade multidrug resistance in cancer cells and xenograft tumour models and develop transient specific resistance: understanding the basis of broad-spectrum versus specific resistance. 2015 , 36, 883-93	8
883	Multiple Drug Transport Pathways through Human P-Glycoprotein. 2015 , 54, 4374-90	52
882	Structural Symmetry in Membrane Proteins. 2015 , 44, 311-37	87
881	The ABC exporter MsbA probed by solid state NMR [challenges and opportunities. 2015 , 396, 1135-49	21
880	The multidrug resistance pump ABCB1 is a substrate for the ubiquitin ligase NEDD4-1. 2015 , 32, 39-45	14
879	Predicting Clearance Mechanism in Drug Discovery: Extended Clearance Classification System (ECCS). 2015 , 32, 3785-802	172
878	POLYMERIC BIOMATERIALS AND NANOMEDICINES. 2015 , 30, 318-330	15
877	Analysis of the Free Energy Landscapes for the Opening-Closing Dynamics of the Maltose Transporter ATPase MalK2 Using Enhanced-Sampling Molecular Dynamics Simulation. 2015 , 119, 9717-25	13
876	Interaction of P-glycoprotein with anti-tumor drugs: the site, gate and pathway. 2015 , 11, 6633-41	15
875	Regulation of ABC efflux transporters at blood-brain barrier in health and neurological disorders. 2015 , 1628, 298-316	132
874	Temozolomide competes for P-glycoprotein and contributes to chemoresistance in glioblastoma cells. 2015 , 367, 69-75	60
873	Discovery and Computer-Aided Drug Design Studies of the Anticancer Marine Triterpene Siphonanes as Novel P-gp and Brk Modulators. 2015 , 547-569	1
872	Drugs That Modulate Resistance to Antitumor Agents. 2015 , 655-700	1
871	The interaction of 4-thiazolidinone derivatives containing indolin-2-one moiety with P-glycoprotein studied using K562 cell lines. 2015 , 101, 126-32	9
870	Membrane Protein Properties Revealed through Data-Rich Electrostatics Calculations. 2015 , 23, 1526-1537	27
869	The ABC of Phytohormone Translocation. 2015 , 81, 474-87	14
868	Exploring the structure-activity relationships of ABCC2 modulators using a screening approach. 2015 , 23, 3513-25	13
867	Characterization of a novel domain 'GATE' in the ABC protein DrrA and its role in drug efflux by the DrrAB complex. 2015 , 459, 148-53	6

866	Multidrug resistance-associated protein 2 is involved in the efflux of Aconitum alkaloids determined by MRP2-MDCKII cells. 2015 , 127, 66-72	18
865	A rare SNP mutation in Brachytic2 moderately reduces plant height and increases yield potential in maize. 2015 , 66, 3791-802	54
864	Localizing a gate in CFTR. 2015 , 112, 2461-6	33
863	ABCB1 polymorphisms correlate with susceptibility to adult acute leukemia and response to high-dose methotrexate. 2015 , 36, 7599-606	8
862	Cholesterol sensing by the ABCG1 lipid transporter: Requirement of a CRAC motif in the final transmembrane domain. 2015 , 1851, 956-64	24
861	The multidrug transporter Pdr5 on the 25th anniversary of its discovery: an important model for the study of asymmetric ABC transporters. 2015 , 467, 353-63	47
860	Discovery of substituted 1,4-dihydroquinolines as novel class of ABCB1 modulators. 2015 , 23, 5015-5021	8
859	Plausible Drug Targets in the Streptococcus mutans Quorum Sensing Pathways to Combat Dental Biofilms and Associated Risks. 2015 , 55, 349-56	42
858	Limited evidence for diagnosing and treating "non-criteria obstetric antiphospholipid syndrome". 2015 , 114, 651-2	7
857	Peony-Glycyrrhiza Decoction, an Herbal Preparation, Inhibits Clozapine Metabolism via Cytochrome P450s, but Not Flavin-Containing Monooxygenase in In Vitro Models. 2015 , 43, 1147-53	12
856	Cysteine accessibility probes timing and extent of NBD separation along the dimer interface in gating CFTR channels. 2015 , 145, 261-83	23
855	Enzyme-instructed self-assembly: a multistep process for potential cancer therapy. 2015 , 26, 987-99	102
854	3-(Benzo[d][1,3]dioxol-5-ylamino)-N-(4-fluorophenyl)thiophene-2-carboxamide overcomes cancer chemoresistance via inhibition of angiogenesis and P-glycoprotein efflux pump activity. 2015 , 13, 4296-309	20
853	Prediction of drug-ABC-transporter interaction--Recent advances and future challenges. 2015 , 86, 17-26	119
852	Drug Discovery and Development. 2015 , 1-34	8
851	Discovery of 4-acetyl-3-(4-fluorophenyl)-1-(p-tolyl)-5-methylpyrrole as a dual inhibitor of human P-glycoprotein and Staphylococcus aureus Nor A efflux pump. 2015 , 13, 5424-31	24
850	Colchicine derivatives with potent anticancer activity and reduced P-glycoprotein induction liability. 2015 , 13, 5674-89	22
849	Heterologous expression of G-protein-coupled receptors in yeast. 2015 , 556, 141-64	6

848	Radiopharmaceuticals for assessing ABC transporters at the blood-brain barrier. 2015 , 97, 362-71	23
847	Lathyrol diterpenes as modulators of P-glycoprotein dependent multidrug resistance: structure-activity relationship studies on Euphorbia factor L3 derivatives. 2015 , 58, 3720-38	26
846	Impact of Genetic Polymorphisms of ABCB1 (MDR1, P-Glycoprotein) on Drug Disposition and Potential Clinical Implications: Update of the Literature. 2015 , 54, 709-35	158
845	Self-assembled Multifunctional DNA Nanoflowers for the Circumvention of Multidrug Resistance in Targeted Anticancer Drug Delivery. 2015 , 8, 3447-3460	68
844	Allocrite Sensing and Binding by the Breast Cancer Resistance Protein (ABCG2) and P-Glycoprotein (ABCB1). 2015 , 54, 6195-206	18
843	Thermal stability of purified and reconstituted CFTR in a locked open channel conformation. 2015 , 116, 159-66	14
842	Phosphorylation-dependent changes in nucleotide binding, conformation, and dynamics of the first nucleotide binding domain (NBD1) of the sulfonylurea receptor 2B (SUR2B). 2015 , 290, 22699-714	12
841	Structure, mechanism and cooperation of bacterial multidrug transporters. 2015 , 33, 76-91	94
840	Handling of Drugs, Metabolites, and Uremic Toxins by Kidney Proximal Tubule Drug Transporters. 2015 , 10, 2039-49	164
839	Genetic and/or non-genetic causes for inter-individual and inter-cellular variability in transporter protein expression: implications for understanding drug efficacy and toxicity. 2015 , 11, 1821-37	2
838	Interaction of the P-Glycoprotein Multidrug Transporter with Sterols. 2015 , 54, 6586-97	30
837	Modulators of the human ABCC2: hope from natural sources?. 2015 , 7, 2041-63	12
836	Inhibition of P-glycoprotein Gene Expression and Function Enhances Triptolide-induced Hepatotoxicity in Mice. 2015 , 5, 11747	35
835	Three-dimensional structure of the human breast cancer resistance protein (BCRP/ABCG2) in an inward-facing conformation. 2015 , 71, 1725-35	24
834	Cystic Fibrosis Transmembrane Conductance Regulator (CFTR): CLOSED AND OPEN STATE CHANNEL MODELS. 2015 , 290, 22891-906	40
833	Modulation of P-glycoprotein at the Human Blood-Brain Barrier by Quinidine or Rifampin Treatment: A Positron Emission Tomography Imaging Study. 2015 , 43, 1795-804	31
832	Effects of a novel porphyrin-based photosensitizer on sensitive and multidrug-resistant human gastric cancer cell lines. 2015 , 151, 186-93	5
831	Do drugs have access to the P-glycoprotein drug-binding pocket through gates?. 2015 , 11, 4525-9	18

830	Principles of nanoparticle design for overcoming biological barriers to drug delivery. 2015 , 33, 941-51	3478
829	Conformational Changes of the Antibacterial Peptide ATP Binding Cassette Transporter McjD Revealed by Molecular Dynamics Simulations. 2015 , 54, 5989-98	17
828	Miltirone Is a Dual Inhibitor of P-Glycoprotein and Cell Growth in Doxorubicin-Resistant HepG2 Cells. 2015 , 78, 2266-75	19
827	P-glycoprotein and membrane roles in multidrug resistance. 2015 , 7, 929-46	52
826	Design and synthesis of a novel 2-oxindole scaffold as a highly potent and brain-penetrant phosphodiesterase 10A inhibitor. 2015 , 23, 7138-49	12
825	Transgenically expressed Parascaris P-glycoprotein-11 can modulate ivermectin susceptibility in <i>Caenorhabditis elegans</i> . 2015 , 5, 44-7	30
824	Insights into the Molecular Properties of ABCA4 and Its Role in the Visual Cycle and Stargardt Disease. 2015 , 134, 415-31	45
823	Reversing cancer multidrug resistance: insights into the efflux by ABC transports from in silico studies. 2015 , 5, 27-55	25
822	Identification of new P-glycoprotein inhibitors derived from cardiotoxic steroids. 2015 , 93, 11-24	31
821	Macrocycles: lessons from the distant past, recent developments, and future directions. 2015 , 6, 30-49	303
820	P-gp Inhibitory Activity from Marine Sponges, Tunicates and Algae. 2015 , 593-619	
819	A new window into the molecular physiology of membrane proteins. 2015 , 593, 355-62	29
818	Modulation of P-glycoprotein efflux pump: induction and activation as a therapeutic strategy. 2015 , 149, 1-123	221
817	CNS drug design: balancing physicochemical properties for optimal brain exposure. 2015 , 58, 2584-608	318
816	Activity of the dietary flavonoid, apigenin, against multidrug-resistant tumor cells as determined by pharmacogenomics and molecular docking. 2015 , 26, 44-56	69
815	Investigating the binding interactions of the anti-Alzheimer's drug donepezil with CYP3A4 and P-glycoprotein. 2015 , 25, 297-301	13
814	What do drug transporters really do?. 2015 , 14, 29-44	303
813	Structure and mechanism of ATP-dependent phospholipid transporters. 2015 , 1850, 461-75	53

812	ABC transporters in adaptive immunity. 2015 , 1850, 449-60	44
811	Full-open and closed CFTR channels, with lateral tunnels from the cytoplasm and an alternative position of the F508 region, as revealed by molecular dynamics. 2015 , 72, 1377-403	73
810	Subnanometre-resolution electron cryomicroscopy structure of a heterodimeric ABC exporter. 2015 , 517, 396-400	105
809	Overcoming multidrug resistance with nanomedicines. 2015 , 12, 223-38	51
808	Synthesis, cytotoxic activity, and computational analysis of N10-substituted acridone analogs. 2015 , 24, 921-933	8
807	Antigen translocation machineries in adaptive immunity and viral immune evasion. 2015 , 427, 1102-18	23
806	Cabozantinib reverses multidrug resistance of human hepatoma HepG2/adr cells by modulating the function of P-glycoprotein. 2015 , 35, 1010-23	41
805	Functional analysis of ABCB4 mutations relates clinical outcomes of progressive familial intrahepatic cholestasis type 3 to the degree of MDR3 floppase activity. 2015 , 64, 147-55	45
804	Zebrafish Abcb4 is a potential efflux transporter of microcystin-LR. 2015 , 167, 35-42	17
803	In Silico ADMET Profiling. 2016 , 225-268	1
802	Effect of Molecular Structure, Substrate and Docking Scores on the Prediction of the Inhibition Constants of P-glycoprotein Inhibitors. 2016 , 07,	
801	Synergistic effects of A-B-C-type amphiphilic copolymer on reversal of drug resistance in MCF-7/ADR breast carcinoma. 2016 , 11, 5205-5220	6
800	Multifunctional targeting vinorelbine plus tetrandrine liposomes for treating brain glioma along with eliminating glioma stem cells. 2016 , 7, 24604-22	24
799	Synergistic effect of reduced polypeptide micelle for co-delivery of doxorubicin and TRAIL against drug-resistance in breast cancer. 2016 , 7, 61832-61844	12
798	Selecting Good 'Drug-Like' Properties to Optimize Small Molecule Blood-Brain Barrier Penetration. 2016 , 23, 1392-407	18
797	Asclepiasterol, a novel C21 steroidal glycoside derived from <i>Asclepias curassavica</i> , reverses tumor multidrug resistance by down-regulating P-glycoprotein expression. 2016 , 7, 31466-83	20
796	Direct-Acting Oral Anticoagulants: Practical Considerations for Emergency Medicine Physicians. 2016 , 2016, 1781684	17
795	Simultaneous delivery of anti-miR21 with doxorubicin prodrug by mimetic lipoprotein nanoparticles for synergistic effect against drug resistance in cancer cells. 2017 , 12, 217-237	27

794	The effect of ABCB1 polymorphisms on the outcome of breast cancer treatment. 2016 , 9, 47-58	24
793	Improvement of Transmembrane Transport Mechanism Study of Imperatorin on P-Glycoprotein-Mediated Drug Transport. 2016 , 21,	10
792	Targeting Epithelial-Mesenchymal Transition (EMT) to Overcome Drug Resistance in Cancer. 2016 , 21,	345
791	Elucidation of Transport Mechanism of Paeoniflorin and the Influence of Ligustilide, Senkyunolide I and Senkyunolide A on Paeoniflorin Transport through Mdrk-Mdr1 Cells as Blood-Brain Barrier in Vitro Model. 2016 , 21, 300	16
790	Nanoparticle-Based Delivery of Anaplasma marginale Membrane Proteins; VirB9-1 and VirB10 Produced in the Pichia pastoris Expression System. 2016 , 6,	4
789	Conserved molecular mechanisms underlying the effects of small molecule xenobiotic chemotherapeutics on cells. 2016 , 4, 326-368	4
788	Identification of a key role for permeability glycoprotein in enhancing the cellular defense mechanisms of fertilized oocytes. 2016 , 417, 63-76	11
787	Enhanced cytotoxicity of nitidine against camptothecin-resistant A549 cells. 2016 , 3, 33-40	1
786	In silico pharmacology: Drug membrane partitioning and crossing. 2016 , 111, 471-486	33
785	A functional classification of ABCB4 variations causing progressive familial intrahepatic cholestasis type 3. 2016 , 63, 1620-31	53
784	A mirror code for protein-cholesterol interactions in the two leaflets of biological membranes. 2016 , 6, 21907	81
783	Accurate quantification of modified cyclic peptides without the need for authentic standards. 2016 , 72, 8603-8609	3
782	A single active catalytic site is sufficient to promote transport in P-glycoprotein. 2016 , 6, 24810	28
781	Structural Dynamics of the Heterodimeric ABC Transporter TM287/288 Induced by ATP and Substrate Binding. 2016 , 55, 6730-6738	10
780	Type I Protein Secretion-Deceptively Simple yet with a Wide Range of Mechanistic Variability across the Family. 2016 , 7,	31
779	Codon bias and the folding dynamics of the cystic fibrosis transmembrane conductance regulator. 2016 , 21, 23	22
778	Deeper insights into the drug defense of glioma cells against hydrophobic molecules. 2016 , 503, 56-67	9
777	A heme-binding domain controls regulation of ATP-dependent potassium channels. 2016 , 113, 3785-90	36

776	Pharmacophore modeling and 3D-QSAR studies of galloyl benzamides as potent P-gp inhibitors. 2016 , 25, 1140-1147	3
775	How Phosphorylation and ATPase Activity Regulate Anion Flux through the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR). 2016 , 291, 14483-98	4
774	The cellular membrane as a mediator for small molecule interaction with membrane proteins. 2016 , 1858, 2290-2304	30
773	Establishment and characterisation of a novel bovine SV40 large T-antigen-transduced foetal hepatocyte-derived cell line. 2016 , 52, 662-72	11
772	Overcoming ABC transporter-mediated multidrug resistance: Molecular mechanisms and novel therapeutic drug strategies. 2016 , 27, 14-29	362
771	Cryo-EM Analysis of the Conformational Landscape of Human P-glycoprotein (ABCB1) During its Catalytic Cycle. 2016 , 90, 35-41	59
770	Structure-activity relationships of dibenzoylhydrazines for the inhibition of P-glycoprotein-mediated quinidine transport. 2016 , 24, 3184-91	5
769	Concise Asymmetric Synthesis and Pharmacological Characterization of All Stereoisomers of Glutamate Transporter Inhibitor TFB-TBOA and Synthesis of EAAT Photoaffinity Probes. 2016 , 7, 534-9	11
768	Cell permeability beyond the rule of 5. 2016 , 101, 42-61	140
767	Tangeretin, a citrus pentamethoxyflavone, antagonizes ABCB1-mediated multidrug resistance by inhibiting its transport function. 2016 , 110, 193-204	22
766	Optimizing the macrocyclic diterpenic core toward the reversal of multidrug resistance in cancer. 2016 , 8, 629-45	10
765	Screening dietary flavonoids for the reversal of P-glycoprotein-mediated multidrug resistance in cancer. 2016 , 12, 2458-70	58
764	Light-responsive AIE nanoparticles with cytosolic drug release to overcome drug resistance in cancer cells. 2016 , 7, 3530-3539	55
763	MMP2-Sensitive PEG-Lipid Copolymers: A New Type of Tumor-Targeted P-Glycoprotein Inhibitor. 2016 , 8, 12661-73	49
762	Calorie Restriction Increases P-Glycoprotein and Decreases Intestinal Absorption of Digoxin in Mice. 2016 , 44, 366-9	6
761	Cholesterol-dependent conformational changes of P-glycoprotein are detected by the 15D3 monoclonal antibody. 2016 , 1861, 188-95	6
760	Interaction of macrocyclic lactones with a <i>Dirofilaria immitis</i> P-glycoprotein. 2016 , 46, 631-40	16
759	Structural and dynamic perspectives on the promiscuous transport activity of P-glycoprotein. 2016 , 98, 146-52	28

758	Development of efflux pump inhibitors in antituberculosis therapy. 2016 , 47, 421-9	25
757	Spatial positioning of CFTR's pore-lining residues affirms an asymmetrical contribution of transmembrane segments to the anion permeation pathway. 2016 , 147, 407-22	11
756	Functional characterization of novel ABCB6 mutations and their clinical implications in familial pseudohyperkalemia. 2016 , 101, 909-17	23
755	Effects of P-glycoprotein on the intestine and blood-brain barrier transport of YZG-331, a promising sedative-hypnotic compound. 2016 , 791, 339-347	7
754	Membrane transporters studied by EPR spectroscopy: structure determination and elucidation of functional dynamics. 2016 , 44, 905-15	9
753	Discovering New Antiepileptic Drugs Addressing the Transporter Hypothesis of Refractory Epilepsy: Structure-Based Approximations. 2016 , 281-297	
752	QSAR Model of Unbound Brain-to-Plasma Partition Coefficient, K: Incorporating P-glycoprotein Efflux as a Variable. 2016 , 56, 2225-2233	18
751	In silico analysis of the binding of anthelmintics to <i>Caenorhabditis elegans</i> P-glycoprotein 1. 2016 , 6, 299-313	17
750	Atomic modelling and systematic mutagenesis identify residues in multiple drug binding sites that are essential for drug resistance in the major <i>Candida</i> transporter Cdr1. 2016 , 1858, 2858-2870	14
749	Heterologous Expression of Membrane Proteins. 2016 ,	1
748	Overexpression, Membrane Preparation, and Purification of a Typical Multidrug ABC Transporter BmrA. 2016 , 1432, 133-42	
747	neo-Clerodane diterpenoids from <i>Scutellaria barbata</i> mediated inhibition of P-glycoprotein in MCF-7/ADR cells. 2016 , 121, 238-249	27
746	The impact of Organic Anion-Transporting Polypeptides (OATPs) on disposition and toxicity of antitumor drugs: Insights from knockout and humanized mice. 2016 , 27, 72-88	39
745	Identification of ABCC2 as a binding protein of Cry1Ac on brush border membrane vesicles from <i>Helicoverpa armigera</i> by an improved pull-down assay. 2016 , 5, 659-69	30
744	Structural and mechanistic diversity of multidrug transporters. 2016 , 33, 1255-1267	25
743	Structural and Functional Basis for Lipid Synergy on the Activity of the Antibacterial Peptide ABC Transporter McjD. 2016 , 291, 21656-21668	22
742	Triterpenoids from <i>Momordica balsamina</i> : Reversal of ABCB1-mediated multidrug resistance. 2016 , 24, 5061-5067	18
741	Organic UV filters inhibit multixenobiotic resistance (MXR) activity in <i>Tetrahymena thermophila</i> : investigations by the Rhodamine 123 accumulation assay and molecular docking. 2016 , 25, 1318-26	10

740	Modulating the strength of hydrogen bond acceptors to achieve low Caco2 efflux for oral bioavailability of PARP inhibitors blocking centrosome clustering. 2016 , 26, 4775-4780	4
739	Influence of P-Glycoprotein Function on Chronic Rhinosinusitis/Nasal Polyps Pathophysiology. 2016 , 79, 38-47	5
738	Cooperativity between verapamil and ATP bound to the efflux transporter P-glycoprotein. 2016 , 118, 96-108	29
737	Interdomain regulation of the ATPase activity of the ABC transporter haemolysin B from Escherichia coli. 2016 , 473, 2471-83	13
736	Microscopic Characterization of Membrane Transporter Function by In Silico Modeling and Simulation. 2016 , 578, 373-428	5
735	[Structural and Pharmacological Studies of an ABC Multidrug Transporter]. 2016 , 136, 197-202	1
734	Computational predictive models for P-glycoprotein inhibition of in-house chalcone derivatives and drug-bank compounds. 2016 , 20, 945-961	23
733	Modulation of P-glycoprotein activity by novel synthetic curcumin derivatives in sensitive and multidrug-resistant T-cell acute lymphoblastic leukemia cell lines. 2016 , 305, 216-233	21
732	Multidrug Efflux Pumps and Their Inhibitors Characterized by Computational Modeling. 2016 , 797-831	5
731	Structures and Transport Mechanisms of the ABC Efflux Pumps. 2016 , 73-98	3
730	Bafetinib (INNO-406) reverses multidrug resistance by inhibiting the efflux function of ABCB1 and ABCG2 transporters. 2016 , 6, 25694	42
729	Beauvericin counteracted multi-drug resistant by blocking ABC transporters. 2016 , 1, 158-168	22
728	Global marine pollutants inhibit P-glycoprotein: Environmental levels, inhibitory effects, and cocrystal structure. 2016 , 2, e1600001	71
727	Redox-sensitive mPEG-SS-PTX/TPGS mixed micelles: An efficient drug delivery system for overcoming multidrug resistance. 2016 , 515, 281-292	56
726	Original Vinca Derivatives: From P-Glycoprotein Substrates to P-Glycoprotein Inhibitors. 2016 , 59, 10774-10780	
725	Crystal Structure of Eukaryotic P-glycoprotein Homolog from Cyanidioschyzon merolae. 2016 , 56, 315-318	
724	Mechanism for the Transport of ABC Transporters by Experimental and Simulation Studies. 2016 , 56, 005-008	1
723	Plasmalogen enrichment in exosomes secreted by a nematode parasite versus those derived from its mouse host: implications for exosome stability and biology. 2016 , 5, 30741	52

722	Atomistic molecular dynamics simulations of ATP-binding cassette transporters. 2016 , 6, 255-265	4
721	Tumor-Homing and Penetrating Peptide-Functionalized Photosensitizer-Conjugated PEG-PLA Nanoparticles for Chemo-Photodynamic Combination Therapy of Drug-Resistant Cancer. 2016 , 8, 17817-32	44
720	MDR1 mediated chemoresistance: BMI1 and TIP60 in action. 2016 , 1859, 983-93	20
719	Structure-Activity Relationship Studies on Tetrahydroisoquinoline Derivatives: [4'-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-ylmethyl)biphenyl-4-ol] (MC70) Conjugated through Flexible Alkyl Chains with Furazan Moieties Gives Rise to Potent and Selective Ligands of P-glycoprotein. 2016 , 59, 6729-38	17
718	Synthesis and In Vivo Imaging of N-(3-[C]Methoxybenzyl)-2-(3-Methoxyphenyl)ethylaniline as a Potential Targeting Agent for P-glycoprotein. 2016 , 18, 916-923	
717	Molecular Evidence of Glycosylation Effect on the Peptide Assemblies Identified with Scanning Tunneling Microscopy. 2016 , 120, 6577-6582	11
716	CS/PAA@TPGS/PLGA nanoparticles with intracellular pH-sensitive sequential release for delivering drug to the nucleus of MDR cells. 2016 , 145, 716-727	17
715	The Lipid Bilayer Modulates the Structure and Function of an ATP-binding Cassette Exporter. 2016 , 291, 4453-61	51
714	A novel hybrid drug between two potent anti-tubulin agents as a potential prolonged anticancer approach. 2016 , 91, 50-63	6
713	Invited review: Architectures and mechanisms of ATP binding cassette proteins. 2016 , 105, 492-504	47
712	Intractable epilepsy and the P-glycoprotein hypothesis. 2016 , 126, 385-92	17
711	A mechanism of viral immune evasion revealed by cryo-EM analysis of the TAP transporter. 2016 , 529, 537-40	81
710	ABCC7/CFTR. 2016 , 319-340	1
709	ABC Exporters from a Structural Perspective. 2016 , 65-84	
708	Genetic Polymorphisms of P-glycoprotein: Echoes of Silence. 2016 , 105-134	2
707	Interactions of human P-glycoprotein transport substrates and inhibitors at the drug binding domain: Functional and molecular docking analyses. 2016 , 104, 42-51	32
706	ABC Transporters - 40 Years on. 2016 ,	10
705	Bioinformatic survey of ABC transporters in dermatophytes. 2016 , 576, 466-75	7

704	Channel Gating Regulation by the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) First Cytosolic Loop. 2016 , 291, 1854-1865	11
703	Structures of multidrug and toxic compound extrusion transporters and their mechanistic implications. 2016 , 10, 88-100	36
702	Pyrimido[1,2,2':1,5]pyrazolo[3,4-b]quinolines: Novel compounds that reverse ABCG2-mediated resistance in cancer cells. 2016 , 376, 118-26	18
701	Toward a unifying strategy for the structure-based prediction of toxicological endpoints. 2016 , 90, 2445-60	5
700	Effect of 3-bromopyruvate acid on the redox equilibrium in non-invasive MCF-7 and invasive MDA-MB-231 breast cancer cells. 2016 , 48, 23-32	34
699	High-resolution mass spectrometry of small molecules bound to membrane proteins. 2016 , 13, 333-6	164
698	Human-Mouse Chimeras with Normal Expression and Function Reveal That Major Domain Swapping Is Tolerated by P-Glycoprotein (ABCB1). 2016 , 55, 1010-23	8
697	Conformational Changes in Transmembrane Domain 4 of Presenilin 1 Are Associated with Altered Amyloid- β 2 Production. 2016 , 36, 1362-72	20
696	Prediction and characterization of P-glycoprotein substrates potentially bound to different sites by emerging chemical pattern and hierarchical cluster analysis. 2016 , 502, 61-9	14
695	Classical and Targeted Anticancer Drugs: An Appraisal of Mechanisms of Multidrug Resistance. 2016 , 1395, 19-37	9
694	Clinical determinants of calcineurin inhibitor disposition: a mechanistic review. 2016 , 48, 88-112	82
693	Candida Efflux ATPases and Antiporters in Clinical Drug Resistance. 2016 , 892, 351-376	15
692	Membrane Protein Folding and Structure. 2016 , 303-331	
691	Interaction of ABC Transporters with Drugs. 2016 , 135-151	
690	Yeast Membrane Transport. 2016 ,	6
689	Dietary Isoflavones as Modulators of Drug Metabolizing Enzymes and Transporters: Effect on Prescription Medicines. 2016 , 56 Suppl 1, S95-S109	8
688	Just How and Where Does P-glycoprotein Bind All Those Drugs?. 2016 , 153-194	2
687	The linker region of breast cancer resistance protein ABCG2 is critical for coupling of ATP-dependent drug transport. 2016 , 73, 1927-37	7

686	Mechanistic and Pharmacological Insights into Modulation of ABC Drug Transporters by Tyrosine Kinase Inhibitors. 2016 , 227-272	0
685	Bacterial ABC Multidrug Exporters: From Shared Proteins Motifs and Features to Diversity in Molecular Mechanisms. 2016 , 37-51	3
684	Effect of long-term coadministration of compound glycyrrhizin tablets on the pharmacokinetics of mycophenolic acid in rats. 2016 , 46, 627-633	7
683	Recent advances in the exploration of the bile salt export pump (BSEP/ABCB11) function. 2016 , 20, 501-14	30
682	Design of smart HPMA copolymer-based nanomedicines. 2016 , 240, 9-23	43
681	Influence of Verapamil on Pharmacokinetics of Triptolide in Rats. 2016 , 41, 449-56	17
680	Biochemical studies on the structure-function relationship of major drug transporters in the ATP-binding cassette family and solute carrier family. 2017 , 116, 3-20	11
679	Saikosaponin A, an active glycoside from Radix bupleuri, reverses P-glycoprotein-mediated multidrug resistance in MCF-7/ADR cells and HepG2/ADM cells. 2017 , 47, 176-184	12
678	Large-scale classification of P-glycoprotein inhibitors using SMILES-based descriptors. 2017 , 28, 1-16	15
677	Hyperosmotic Agents and Antibiotics Affect Dissolved Oxygen and pH Concentration Gradients in Staphylococcus aureus Biofilms. 2017 , 83,	11
676	Antiprotozoal glutathione derivatives with flagellar membrane binding activity against T. brucei rhodesiense. 2017 , 25, 1329-1340	2
675	Crystal structure and mechanistic basis of a functional homolog of the antigen transporter TAP. 2017 , 114, E438-E447	51
674	Molecular characterization of ABC transporters in marine ciliate, Euplotes crassus: Identification and response to cadmium and benzo[a]pyrene. 2017 , 124, 725-735	14
673	Interactions of retinoids with the ABC transporters P-glycoprotein and Breast Cancer Resistance Protein. 2017 , 7, 41376	16
672	Structure of a Pancreatic ATP-Sensitive Potassium Channel. 2017 , 168, 101-110.e10	153
671	The biopharmaceutical classification system of excipients. 2017 , 8, 65-78	19
670	TAT-Modified Gold Nanoparticle Carrier with Enhanced Anticancer Activity and Size Effect on Overcoming Multidrug Resistance. 2017 , 9, 5828-5837	41
669	Structural Basis of Substrate Recognition by the Multidrug Resistance Protein MRP1. 2017 , 168, 1075-1085.e9	216

668	Intracellular drug bioavailability: a new predictor of system dependent drug disposition. 2017 , 7, 43047	49
667	Insights Into the Molecular Mechanism of Triptan Transport by P-glycoprotein. 2017 , 106, 1670-1679	5
666	Dual Modulation of Human P-Glycoprotein and ABCG2 with Prodrug Dimers of the Atypical Antipsychotic Agent Paliperidone in a Model of the Blood-Brain Barrier. 2017 , 14, 1107-1119	9
665	Recent Advances in Structural Modeling of ABC Transporters. 2017 , 167-178	
664	Role of Aromatic and Negatively Charged Residues of DrrB in Multisubstrate Specificity Conferred by the DrrAB System of <i>Streptomyces peucetius</i> . 2017 , 56, 1921-1931	10
663	Multifunctional Nanographene Oxide for Targeted Gene-Mediated Thermochemotherapy of Drug-resistant Tumour. 2017 , 7, 43506	37
662	Energy in Ancient Metabolism. 2017 , 168, 953-955	31
661	MicroRNA31-NDRG3 regulation axes are essential for hepatocellular carcinoma survival and drug resistance. 2017 , 19, 221-230	23
660	Transporters Revealed. 2017 , 168, 951-953	13
659	Role of Ectopic Gene Conversion in the Evolution of a Pleiotropic Drug Resistance Transporter Family. 2017 , 205, 1619-1639	10
658	Using Yeast to Discover Inhibitors of Multidrug Efflux in <i>Candida albicans</i> . 2017 , 491-543	1
657	A structure-activity relationship study of ABCC2 inhibitors. 2017 , 103, 60-69	4
656	Reversal of P-gp-mediated multidrug resistance in colon cancer by cinobufagin. 2017 , 37, 1815-1825	31
655	Near-Infrared Laser-Triggered Nitric Oxide Nanogenerators for the Reversal of Multidrug Resistance in Cancer. 2017 , 27, 1606398	116
654	Dimeric isoxazolyl-1,4-dihydropyridines have enhanced binding at the multi-drug resistance transporter. 2017 , 25, 3223-3234	11
653	Structural basis of inhibition of lipid-linked oligosaccharide flippase PglK by a conformational nanobody. 2017 , 7, 46641	21
652	Unidirectional Transport Mechanism in an ATP Dependent Exporter. 2017 , 3, 250-258	14
651	About P-glycoprotein: a new drugable domain is emerging from structural data. 2017 , 7, e1316	13

650	Potential anticancer role of colchicine-based derivatives: an overview. 2017 , 28, 250-262	48
649	ABCB4 missense mutations D243A, K435T, G535D, I490T, R545C, and S978P significantly impair the lipid floppase and likely predispose to secondary pathologies in the human population. 2017 , 74, 2513-2524	10
648	A Critical View on In Vitro Analysis of P-glycoprotein (P-gp) Transport Kinetics. 2017 , 106, 2257-2264	23
647	Differential Coupling of Binding, ATP Hydrolysis, and Transport of Fluorescent Probes with P-Glycoprotein in Lipid Nanodiscs. 2017 , 56, 2506-2517	14
646	Auto-induction of <i>Pichia pastoris</i> AOX1 promoter for membrane protein expression. 2017 , 137, 7-12	8
645	Structure of the Human Lipid Exporter ABCA1. 2017 , 169, 1228-1239.e10	152
644	Structural basis for perception of diverse chemical substances by T1r taste receptors. 2017 , 8, 15530	62
643	Transmembrane helix hydrophobicity is an energetic barrier during the retrotranslocation of integral membrane ERAD substrates. 2017 , 28, 2076-2090	13
642	Structure of the human multidrug transporter ABCG2. 2017 , 546, 504-509	246
641	Molecular properties associated with transporter-mediated drug disposition. 2017 , 116, 92-99	13
640	Structural Biology Meets Drug Resistance: An Overview on Multidrug Resistance Transporters. 2017 , 97, 165-175	1
639	Reversal of multidrug resistance by <i>Marsdenia tenacissima</i> and its main active ingredients polyoxypregnanes. 2017 , 203, 110-119	30
638	Asarone promotes Temozolomide's entry into glioma cells and decreases the expression of P-glycoprotein and MDR1. 2017 , 90, 368-374	13
637	Membrane protein reconstitution in nanodiscs for luminescence spectroscopy studies. 2017 , 6, 33-46	7
636	The dopamine D receptor antagonists PG01037, NGB2904, SB277011A, and U99194 reverse ABCG2 transporter-mediated drug resistance in cancer cell lines. 2017 , 396, 167-180	15
635	Hyperinsulinism-Causing Mutations Cause Multiple Molecular Defects in SUR1 NBD1. 2017 , 56, 2400-2416	5
634	Design, Synthesis, and Pharmacological Characterization of N-(4-(2-(6,7-Dimethoxy-3,4-dihydroisoquinolin-2(1H)yl)ethyl)phenyl)quinazolin-4-amine Derivatives: Novel Inhibitors Reversing P-Glycoprotein-Mediated Multidrug Resistance. 2017 , 60, 3289-3302	27
633	Energy transduction and alternating access of the mammalian ABC transporter P-glycoprotein. 2017 , 543, 738-741	141

632	Effects of a detergent micelle environment on P-glycoprotein (ABCB1)-ligand interactions. 2017 , 292, 7066-7076	33
631	A peptide-decorated and curcumin-loaded mesoporous silica nanomedicine for effectively overcoming multidrug resistance in cancer cells. 2017 , 7, 16401-16409	19
630	ABC Transporters Involved in Cholestasis. 2017 , 119-166	
629	Exploration of 2-((Pyridin-4-ylmethyl)amino)nicotinamide Derivatives as Potent Reversal Agents against P-Glycoprotein-Mediated Multidrug Resistance. 2017 , 60, 2930-2943	28
628	BMI-1 Promotes Self-Renewal of Radio- and Temozolomide (TMZ)-Resistant Breast Cancer Cells. 2017 , 24, 1620-1629	12
627	Extrapolation of Elementary Rate Constants of P-glycoprotein-Mediated Transport from MDCKII-hMDR1-NKI to Caco-2 Cells. 2017 , 45, 190-197	8
626	Cardiovascular Ion Channel Inhibitor Drug-Drug Interactions with P-glycoprotein. 2017 , 19, 409-420	11
625	On the mechanism of substrate/non-substrate recognition by P-glycoprotein. 2017 , 71, 227-232	14
624	Polymer-surfactant nanoparticles for improving oral bioavailability of doxorubicin. 2017 , 47, 65-73	15
623	One-Step Microfluidic Synthesis of Nanocomplex with Tunable Rigidity and Acid-Switchable Surface Charge for Overcoming Drug Resistance. 2017 , 13, 1603109	46
622	Not only P-glycoprotein: Amplification of the ABCB1-containing chromosome region 7q21 confers multidrug resistance upon cancer cells by coordinated overexpression of an assortment of resistance-related proteins. 2017 , 32, 23-46	76
621	Balaglitazone reverses P-glycoprotein-mediated multidrug resistance via upregulation of PTEN in a PPAR α -dependent manner in leukemia cells. 2017 , 39, 1010428317716501	30
620	Synthesis of Homoverrucosanoid-Derived Esters and Evaluation as MDR Modulators. 2017 , 82, 10504-10522	5
619	Substrate-induced conformational changes in the nucleotide-binding domains of lipid bilayer-associated P-glycoprotein during ATP hydrolysis. 2017 , 292, 20412-20424	44
618	Describing the role of <i>Drosophila melanogaster</i> ABC transporters in insecticide biology using CRISPR-Cas9 knockouts. 2017 , 91, 1-9	29
617	Tetrahydroquinolinone derivatives as potent P-glycoprotein inhibitors: design, synthesis, biological evaluation and molecular docking analysis. 2017 , 8, 1919-1933	13
616	Structural basis for antibacterial peptide self-immunity by the bacterial ABC transporter McjD. 2017 , 36, 3062-3079	41
615	Antibiotic That Inhibits the ATPase Activity of an ATP-Binding Cassette Transporter by Binding to a Remote Extracellular Site. 2017 , 139, 10597-10600	12

614	Involvement of P-glycoprotein and multidrug and toxin extrusion protein 1 in hepatic and renal berberine efflux in mice. 2017 , 7, 34801-34809	2
613	Multivalent methionine-functionalized biocompatible block copolymers for targeted small interfering RNA delivery and subsequent reversal effect on adriamycin resistance in human breast cancer cell line MCF-7/ADR. 2017 , 19, e2969	5
612	MDR in cancer: Addressing the underlying cellular alterations with the use of nanocarriers. 2017 , 126, 2-30	35
611	Molecular Mechanism of Taurocholate Transport by the Bile Salt Export Pump, an ABC Transporter Associated with Intrahepatic Cholestasis. 2017 , 92, 401-413	8
610	The impact of chemosensitisation on bioaccumulation and sediment toxicity. 2017 , 186, 652-659	5
609	A novel delocalized lipophilic cation-chlorambucil conjugate inhibits P-glycoprotein in HepG2/ADM cells. 2017 , 25, 5461-5467	6
608	Investigation of the effects of the CFTR potentiator ivacaftor on human P-glycoprotein (ABCB1). 2017 , 7, 17481	11
607	Structure-function relationships in ABCG2: insights from molecular dynamics simulations and molecular docking studies. 2017 , 7, 15534	39
606	Heterodimeric Diterpenoids Isolated from Euphorbia ebracteolata Roots and Their Inhibitory Effects on β -Glucosidase. 2017 , 80, 3218-3223	25
605	Bombyx mori ABC transporter C2 structures responsible for the receptor function of Bacillus thuringiensis Cry1Aa toxin. 2017 , 91, 44-54	22
604	Chiral surfaces: The many faces of chiral recognition. 2017 , 32, 94-107	22
603	Reversal effects of local anesthetics on P-glycoprotein-mediated cancer multidrug resistance. 2017 , 28, 243-249	10
602	Dual inhibitors of the human blood-brain barrier drug efflux transporters P-glycoprotein and ABCG2 based on the antiviral azidothymidine. 2017 , 25, 5128-5132	7
601	Phenolic acids from Balanophora involucreta and their bioactivities. 2017 , 121, 129-135	8
600	Sphingolipid abnormalities in cancer multidrug resistance: Chicken or egg?. 2017 , 38, 134-145	28
599	In Silico and in Vitro Screening for P-Glycoprotein Interaction with Tenofovir, Darunavir, and Dapivirine: An Antiretroviral Drug Combination for Topical Prevention of Colorectal HIV Transmission. 2017 , 14, 2660-2669	9
598	Cryptophycins: cytotoxic cyclodepsipeptides with potential for tumor targeting. 2017 , 23, 514-531	36
597	Molecular Dynamics Flexible Fitting Simulations Identify New Models of the Closed State of the Cystic Fibrosis Transmembrane Conductance Regulator Protein. 2017 , 57, 1932-1946	5

596	Empowering pharmacoinformatics by linked life science data. 2017 , 31, 319-328	1
595	Structures of the Multidrug Transporter P-glycoprotein Reveal Asymmetric ATP Binding and the Mechanism of Polyspecificity. 2017 , 292, 446-461	120
594	Interactions and cooperativity between P-glycoprotein structural domains determined by thermal unfolding provides insights into its solution structure and function. 2017 , 1859, 48-60	12
593	The application of P-gp inhibiting phospholipids as novel oral bioavailability enhancers - An in vitro and in vivo comparison. 2017 , 108, 13-22	14
592	Extending the structure-activity relationship study of marine natural ningalin B analogues as P-glycoprotein inhibitors. 2017 , 125, 795-806	11
591	Location of contact residues in pharmacologically distinct drug binding sites on P-glycoprotein. 2017 , 123, 19-28	21
590	Molecular modelling and molecular dynamics of CFTR. 2017 , 74, 3-22	28
589	Strategies for improving drug delivery: nanocarriers and microenvironmental priming. 2017 , 14, 865-877	29
588	Presence of an Immune System Increases Anti-Tumor Effect of Ag Nanoparticle Treated Mice. 2017 , 6, 1601099	17
587	Transmitting the energy: interdomain cross-talk in Pdr5. 2017 , 398, 145-154	3
586	A Schiff Base Macrocyclic Ligand and Its Mg(II) and Cd(II) Complexes: Spectral Properties with Theoretical Understanding and Biological Activity. 2017 , 2, 11832-11839	3
585	LUCS (Light-Up Cell System), a universal high throughput assay for homeostasis evaluation in live cells. 2017 , 7, 18069	13
584	Structural Biology of the Bacterial Heme Acquisition and Transport Systems. 2017 , 59, 166-173	
583	P-gp and BCRP inhibition induced by some new 1,4-Dihydropyridine and Dihydropyrimidines. 2017 , 13, 62	1
582	Predictive Structure and Topology of Peroxisomal ATP-Binding Cassette (ABC) Transporters. 2017 , 18,	13
581	Mode of Action Analyses of Neferine, a Bisbenzylisoquinoline Alkaloid of Lotus () against Multidrug-Resistant Tumor Cells. 2017 , 8, 238	28
580	Impact of Gastric rs2733743 on the Intragastric pH-Values of Dexlansoprazole Injection in Chinese Subjects. 2017 , 8, 670	4
579	Boeravinone B, A Novel Dual Inhibitor of NorA Bacterial Efflux Pump of and Human -Glycoprotein, Reduces the Biofilm Formation and Intracellular Invasion of Bacteria. 2017 , 8, 1868	44

578	Evolutionary Trajectories of Entomopathogenic Fungi ABC Transporters. 2017 , 98, 117-154	13
577	Biophysical Approaches Facilitate Computational Drug Discovery for ATP-Binding Cassette Proteins. 2017 , 2017, 1529402	3
576	Mathematical Simulation of Transport Kinetics of Tumor-Imaging Radiopharmaceutical Tc-MIBI. 2017 , 2017, 2414878	4
575	Novel 5-oxo-hexahydroquinoline derivatives: design, synthesis, in vitro P-glycoprotein-mediated multidrug resistance reversal profile and molecular dynamics simulation study. 2017 , 11, 407-418	12
574	Computational modelling of efflux pumps and their inhibitors. 2017 , 61, 141-156	26
573	Enhancing the oral bioavailability of biochanin A by encapsulation in mixed micelles containing Pluronic F127 and Plasdone S630. 2017 , 12, 1475-1483	28
572	Molecular Mimics of Classic P-Glycoprotein Inhibitors as Multidrug Resistance Suppressors and Their Synergistic Effect on Paclitaxel. 2017 , 12, e0168938	18
571	Emodin reverses leukemia multidrug resistance by competitive inhibition and downregulation of P-glycoprotein. 2017 , 12, e0187971	18
570	Transmembrane helical interactions in the CFTR channel pore. 2017 , 13, e1005594	9
569	A computational study of the inhibition mechanisms of P-glycoprotein mediated paclitaxel efflux by kinase inhibitors. 2017 , 11, 108	6
568	Multidrug resistance-associated protein 4 is a bile transporter of Clonorchis sinensis simulated by in silico docking. 2017 , 10, 578	5
567	Micromechanical properties of lymphoid cells in patients with acute lymphoblastic leucosis. 2017 , 2, 117-123	1
566	A Computational Approach From Gene to Structure Analysis of the Human ABCA4 Transporter Involved in Genetic Retinal Diseases. 2017 , 58, 5320-5328	23
565	Geographic Differences in Persistent Organic Pollutant Levels of Yellowfin Tuna. 2017 , 125, 067014	20
564	Uncaria alkaloids reverse ABCB1-mediated cancer multidrug resistance. 2017 , 51, 257-268	11
563	Cellular Models and In Vitro Assays for the Screening of modulators of P-gp, MRP1 and BCRP. 2017 , 22,	70
562	Selected anthraquinones as potential free radical scavengers and P-glycoprotein inhibitors. 2018 , 16, 1890-1902	16
561	Enzyme Degradable Hyperbranched Polyphosphoester Micellar Nanomedicines for NIR Imaging-Guided Chemo-Photothermal Therapy of Drug-Resistant Cancers. 2018 , 19, 1130-1141	24

560	A Conformationally Gated Model of Methadone and Loperamide Transport by P-Glycoprotein. 2018 , 107, 1937-1947	6
559	Overcoming Ovarian Cancer Drug Resistance with a Cold Responsive Nanomaterial. 2018 , 4, 567-581	36
558	Structure of a zosuquidar and UIC2-bound human-mouse chimeric ABCB1. 2018 , 115, E1973-E1982	104
557	LysoTracker and MitoTracker Red are transport substrates of P-glycoprotein: implications for anticancer drug design evading multidrug resistance. 2018 , 22, 2131-2141	29
556	Jatrophone diterpenoids from Euphorbia sororia as potent modulators against P-glycoprotein-based multidrug resistance. 2018 , 146, 157-170	21
555	Coarse-grained molecular dynamics simulations reveal lipid access pathways in P-glycoprotein. 2018 , 150, 417-429	18
554	Transporters in Hepatotoxicity. 2018 , 145-174	
553	Molecular structure of human P-glycoprotein in the ATP-bound, outward-facing conformation. <i>Science</i> , 2018 , 359, 915-919	33.3 222
552	P-glycoprotein polymorphism and levothyroxine bioavailability in hypothyroid patients. 2018 , 26, 274-278	1
551	Spatial Position Regulates Power of Tryptophan: Discovery of a Major-Groove-Specific Nuclear-Localizing, Cell-Penetrating Tetrapeptide. 2018 , 140, 1697-1714	23
550	Inhibit or Evade Multidrug Resistance P-Glycoprotein in Cancer Treatment. 2018 , 61, 5108-5121	132
549	A Transformable Chimeric Peptide for Cell Encapsulation to Overcome Multidrug Resistance. 2018 , 14, e1703321	55
548	Study of the properties of doxorubicin-resistant cells affected by acute leucosis. 2018 , 50, 53-58	1
547	Dual targeting agents for A β plaque/P-glycoprotein and A β plaque/nicotinic acetylcholine $\alpha 7$ * receptors-potential approaches to facilitate A β plaque removal in Alzheimer's disease brain. 2018 , 27, 1634-1646	4
546	Structural mechanisms of CFTR function and dysfunction. 2018 , 150, 539-570	53
545	Structural basis of small-molecule inhibition of human multidrug transporter ABCG2. 2018 , 25, 333-340	168
544	Prediction of brain:blood unbound concentration ratios in CNS drug discovery employing in silico and in vitro model systems. 2018 , 23, 1357-1372	38
543	Structural patterns of the human ABCC4/MRP4 exporter in lipid bilayers rationalize clinically observed polymorphisms. 2018 , 133, 318-327	11

542	Structural Studies of Multidrug Resistance Protein 1 Using "Almost" Cysless Template. 2018 , 46, 794-804	3
541	Structural model, functional modulation by ivermectin and tissue localization of <i>Haemonchus contortus</i> P-glycoprotein-13. 2018 , 8, 145-157	13
540	In silico analysis of a few dietary phytochemicals as potential tumor chemo-sensitizers. 2018 , 29, 1139-1151	1
539	An Enzyme-Directed Imidazoquinoline Activated by Drug Resistance. 2018 , 57, 2184-2188	7
538	Molecular dynamics simulation and molecular docking studies of 1,4-Dihydropyridines as P-glycoprotein's allosteric inhibitors. 2018 , 36, 112-125	23
537	Efflux proteins at the blood-brain barrier: review and bioinformatics analysis. 2018 , 48, 506-532	24
536	Comparison of mechanistic transport cycle models of ABC exporters. 2018 , 1860, 818-832	66
535	Exploration of 1,2,3-triazole-pyrimidine hybrids as potent reversal agents against ABCB1-mediated multidrug resistance. 2018 , 143, 1535-1542	30
534	Assaying uptake of endocrine disruptor compounds in zebrafish embryos and larvae. 2018 , 208, 105-113	6
533	CFTR and Cystic Fibrosis. 2018 ,	1
532	CFTR and Cystic Fibrosis. 2018 , 1-56	3
531	Luminescence resonance energy transfer spectroscopy of ATP-binding cassette proteins. 2018 , 1860, 854-867	8
530	Structural elucidation of transmembrane domain zero (TMD0) of EcdL: A multidrug resistance-associated protein (MRP) family of ATP-binding cassette transporter protein revealed by atomistic simulation. 2018 , 36, 2938-2950	13
529	Thermodynamic secrets of multidrug resistance: A new take on transport mechanisms of secondary active antiporters. 2018 , 27, 595-613	10
528	The effect of drug binding on specific sites in transmembrane helices 4 and 6 of the ABC exporter MsbA studied by DNP-enhanced solid-state NMR. 2018 , 1860, 833-840	15
527	Affinity of Ketamine to Clinically Relevant Transporters. 2018 , 15, 326-331	17
526	ES2 enhances the efficacy of chemotherapeutic agents in ABCB1-overexpressing cancer cells in vitro and in vivo. 2018 , 129, 388-399	8
525	Transport mechanism of lipid covered saquinavir pure drug nanoparticles in intestinal epithelium. 2018 , 269, 159-170	25

524	Cytoprotection of lipoic acid against toxicity induced by saxitoxin in hippocampal cell line HT-22 through in silico modeling and in vitro assays. 2018 , 393, 171-184	8
523	Allosteric Role of Substrate Occupancy Toward the Alignment of P-glycoprotein Nucleotide Binding Domains. 2018 , 8, 14643	11
522	Cryo-EM structures of a human ABCG2 mutant trapped in ATP-bound and substrate-bound states. 2018 , 563, 426-430	119
521	Novel features in the structure of P-glycoprotein (ABCB1) in the post-hydrolytic state as determined at 7.9 Å resolution. 2018 , 18, 17	22
520	Enhanced anticancer activity and intracellular uptake of paclitaxel-containing solid lipid nanoparticles in multidrug-resistant breast cancer cells. 2018 , 13, 7549-7563	31
519	Effective Therapy Using a Liposomal siRNA that Targets the Tumor Vasculature in a Model Murine Breast Cancer with Lung Metastasis. 2018 , 11, 102-108	13
518	Efflux Transporters. 2018 , 617-666	
517	MDR1 in immunity: friend or foe?. 2018 , 7, e1499388	17
516	Automatic Inference of Sequence from Low-Resolution Crystallographic Data. 2018 , 26, 1546-1554.e2	
515	A Tailored DNA Nanoplatfrom for Synergistic RNAi-/Chemotherapy of Multidrug-Resistant Tumors. 2018 , 130, 15712-15716	28
514	Interaction of Abl Tyrosine Kinases with SOCS3 Impairs Its Suppressor Function in Tumorigenesis. 2018 , 20, 1095-1105	2
513	Conformational changes in a multidrug resistance ABC transporter DrrAB: Fluorescence-based approaches to study substrate binding. 2018 , 658, 31-45	5
512	Crown ethers reverse P-glycoprotein-mediated multidrug resistance in cancer cells. 2018 , 8, 14467	12
511	Pharmacokinetics of new oral anticoagulants: implications for use in routine care. 2018 , 14, 1057-1069	21
510	A Tailored DNA Nanoplatfrom for Synergistic RNAi-/Chemotherapy of Multidrug-Resistant Tumors. 2018 , 57, 15486-15490	106
509	Discovery of traditional Chinese medicine monomers and their synthetic intermediates, analogs or derivatives for battling P-gp-mediated multi-drug resistance. 2018 , 159, 381-392	22
508	Effects of proton pump inhibitors on reversing multidrug resistance via downregulating V-ATPases/PI3K/Akt/mTOR/HIF-1β signaling pathway through TSC1/2 complex and Rheb in human gastric adenocarcinoma cells in vitro and in vivo. 2018 , 11, 6705-6722	21
507	Theoretical Prediction of the Complex P-Glycoprotein Substrate Efflux Based on the Novel Hierarchical Support Vector Regression Scheme. 2018 , 23,	12

506	The ABC of ABC Transporters. 2018 , 87, 1-23	2
505	Elimination of substances from the brain parenchyma: efflux via perivascular pathways and via the blood-brain barrier. 2018 , 15, 30	83
504	Prioritization of Transporter-Drug Relationships From Drug Sensitivity Screens. 2018 , 9, 1011	17
503	Terpenoids from <i>Euphorbia pedroi</i> as Multidrug-Resistance Reversers. 2018 , 81, 2032-2040	22
502	Structure and mechanism of bacterial tripartite efflux pumps. 2018 , 169, 401-413	32
501	Interspecies comparison of putative ligand binding sites of human, rat and mouse P-glycoprotein. 2018 , 122, 134-143	12
500	Discovery of 5-Cyano-6-phenylpyrimidin Derivatives Containing an Acylurea Moiety as Orally Bioavailable Reversal Agents against P-Glycoprotein-Mediated Mutidrug Resistance. 2018 , 61, 5988-6001	38
499	Challenges with the precise prediction of ABC-transporter interactions for improved drug discovery. 2018 , 13, 697-707	1
498	Interaction of WBP2 with ER α increases doxorubicin resistance of breast cancer cells by modulating MDR1 transcription. 2018 , 119, 182-192	14
497	Mechanism underlying bergapten-mediated regulation of vincristine transport in MDCK-MDR1 cells. 2018 , 10, 255-262	
496	Epimagnolin A, a tetrahydrofurofuranoid lignan from <i>Magnolia fargesii</i> , reverses ABCB1-mediated drug resistance. 2018 , 51, 112-119	5
495	Pharmacogenetic Aspects of the Interaction of AT1 Receptor Antagonists With ATP-Binding Cassette Transporter. 2018 , 9, 463	5
494	Reversal Effect of Oxypeucedanin on P-glycoprotein-mediated Drug Transport. 2018 , 23,	8
493	Advances in Membrane Proteins. 2018 ,	
492	Screening of Drug-Transporter Interactions in a 3D Microfluidic Renal Proximal Tubule on a Chip. 2018 , 20, 87	45
491	Antibiotic Resistance Mediated by the MacB ABC Transporter Family: A Structural and Functional Perspective. 2018 , 9, 950	70
490	Experimental and Simulation Identification of Xanthohumol as an Inhibitor and Substrate of ABCB1. 2018 , 8, 681	3
489	Endophytic Microbes as a Novel Source for Producing Anticancer Compounds as Multidrug Resistance Modulators. 2018 , 343-381	1

488	Molecular Modeling of Drug-Transporter Interactions-An International Transporter Consortium Perspective. 2018 , 104, 818-835	24
487	Molecular Targets of Active Anticancer Compounds Derived from Marine Sources. 2018 , 16,	19
486	Nose-to-Brain Delivery of Antiviral Drugs: A Way to Overcome Their Active Efflux?. 2018 , 10,	20
485	Towards Identification of the Substrates of ATP-Binding Cassette Transporters. 2018 , 178, 18-39	42
484	Repositioning Microtubule Stabilizing Drugs for Brain Disorders. 2018 , 12, 226	35
483	P-glycoprotein and chronic rhinosinusitis. 2018 , 4, 169-174	5
482	ABC Transporters in Dynamic Macromolecular Assemblies. 2018 , 430, 4481-4495	21
481	The conformation and dynamics of P-glycoprotein in a lipid bilayer investigated by atomic force microscopy. 2018 , 156, 302-311	14
480	Preliminary evaluation of the potential role of Elexmene in reversing erlotinib-resistant human NSCLC A549/ER cells. 2018 , 16, 3380-3388	11
479	Searching for New Leads To Treat Epilepsy: Target-Based Virtual Screening for the Discovery of Anticonvulsant Agents. 2018 , 58, 1331-1342	6
478	The reliability of molecular dynamics simulations of the multidrug transporter P-glycoprotein in a membrane environment. 2018 , 13, e0191882	21
477	Reconstitution and functional studies of hamster P-glycoprotein in giant liposomes. 2018 , 13, e0199279	7
476	Discovery of a Tin-Piperonal-Entecavir Schiff Base Compound That Overcomes Multidrug Resistance by Inhibiting P-Glycoprotein. 2018 , 16, 205-211	2
475	The Biochemistry and Structural Biology of Cyanobactin Pathways: Enabling Combinatorial Biosynthesis. 2018 , 604, 113-163	27
474	Structural snapshot of the cholesterol-transport ATP-binding cassette proteins. 2019 , 97, 224-233	10
473	Selective inhibition of P-gp transporter by goniotalamin derivatives sensitizes resistant cancer cells to chemotherapy. 2019 , 73, 226-235	5
472	A Structural View on Medicinal Chemistry Strategies against Drug Resistance. 2019 , 58, 3300-3345	36
471	Eine strukturelle Evaluierung medizinalchemischer Strategien gegen Wirkstoffresistenzen. 2019 , 131, 3336-3383	5

470	Altered Biodistribution and Tissue Retention of Nanoparticles Targeted with P-Glycoprotein Substrates. 2019 , 5, 308-318	0
469	Synthesis, in silico and in vitro studies of new 1,4-dihydropyridine derivatives for antitumor and P-glycoprotein inhibitory activity. 2019 , 91, 103156	10
468	Molecular Energetics of Doxorubicin Pumping by Human P-Glycoprotein. 2019 , 59, 3889-3898	5
467	Similar Safety Profile of the Enantiomeric N-Aminoalkyl Derivatives of -2-Aminocyclohexan-1-ol Demonstrating Anticonvulsant Activity. 2019 , 24,	0
466	Interactions between artemisinin derivatives and P-glycoprotein. 2019 , 60, 152998	12
465	Systems Pharmacology for Investigation of the Mechanisms of Action of Traditional Chinese Medicine in Drug Discovery. 2019 , 10, 743	61
464	Chemo-sensitizing activity of natural cadinanes from <i>Heterotheca inuloides</i> in human uterine sarcoma cells and their in silico interaction with ABC transporters. 2019 , 91, 103091	3
463	Novel tetrahydroacridine derivatives with iodobenzoic moieties induce G0/G1 cell cycle arrest and apoptosis in A549 non-small lung cancer and HT-29 colorectal cancer cells. 2019 , 460, 123-150	5
462	Chemical tools for membrane protein structural biology. 2019 , 58, 278-285	6
461	A new insight into the reversal of multidrug resistance in cancer by nanodrugs. 2019 , 7, 3489-3496	7
460	Efficacy of antiepileptic drugs in the era of pharmacogenomics: A focus on childhood. 2019 , 23, 674-684	2
459	Tackling drug resistance with efflux pump inhibitors: from bacteria to cancerous cells. 2019 , 45, 334-353	21
458	Enzyme-activatable polymer-drug conjugate augments tumour penetration and treatment efficacy. 2019 , 14, 799-809	327
457	Doxorubicin derivative loaded acetal-PEG-PCCL micelles for overcoming multidrug resistance in MCF-7/ADR cells. 2019 , 45, 1556-1564	5
456	The Arabidopsis ATP-BINDING CASSETTE Transporter ABCB21 Regulates Auxin Levels in Cotyledons, the Root Pericycle, and Leaves. 2019 , 10, 806	15
455	Dynamics of ABC Transporter P-glycoprotein in Three Conformational States. 2019 , 9, 15092	14
454	pH and redox dual-responsive nanoparticles based on disulfide-containing poly(β-amino ester) for combining chemotherapy and COX-2 inhibitor to overcome drug resistance in breast cancer. 2019 , 17, 109	27
453	Discovery and synthesis of 3- and 21-substituted fusidic acid derivatives as reversal agents of P-glycoprotein-mediated multidrug resistance. 2019 , 182, 111668	8

452	Dual Stimuli-Responsive Controlled Release Nanocarrier for Multidrug Resistance Cancer Therapy. 2019 , 20, 3271-3275	3
451	Natural Variation and Domestication Selection of Affects Plant Architecture and Yield-Related Traits in Maize. 2019 , 10,	6
450	Learning the ABCs one at a time: structure and mechanism of ABC transporters. 2019 , 47, 23-36	65
449	Energy coupling in ABC exporters. 2019 , 170, 392-398	3
448	Mechanics and pharmacology of substrate selection and transport by eukaryotic ABC exporters. 2019 , 26, 792-801	30
447	Derivative of 5-cyano-6-phenylpyrimidin antagonizes ABCB1- and ABCG2-mediated multidrug resistance. 2019 , 863, 172611	18
446	Pantoprazole pretreatment elevates sensitivity to vincristine in drug-resistant oral epidermoid carcinoma in vitro and in vivo. 2019 , 120, 109478	11
445	Nonionic surfactants modulate the transport activity of ATP-binding cassette (ABC) transporters and solute carriers (SLC): Relevance to oral drug absorption. 2019 , 566, 410-433	24
444	A nuclear targeted Dox-aptamer loaded liposome delivery platform for the circumvention of drug resistance in breast cancer. 2019 , 117, 109072	38
443	Teratogenic jervine increases the activity of doxorubicin in MCF-7/ADR cells by inhibiting ABCB1. 2019 , 117, 109059	5
442	Shape Effect of Nanoparticles on Tumor Penetration in Monolayers Versus Spheroids. 2019 , 16, 2902-2911	16
441	Monoterpene indole alkaloids as leads for targeting multidrug resistant cancer cells from the African medicinal plant <i>Tabernaemontana elegans</i> . 2019 , 18, 971-987	4
440	Multiclass Classifier for P-Glycoprotein Substrates, Inhibitors, and Non-Active Compounds. 2019 , 24,	7
439	In vitro NTPase activity of highly purified Pdr5, a major yeast ABC multidrug transporter. 2019 , 9, 7761	14
438	Structural basis for human sterol isomerase in cholesterol biosynthesis and multidrug recognition. 2019 , 10, 2452	25
437	Enhancing effect of taurohyodeoxycholate on ABCB4-mediated phospholipid efflux. 2019 , 1864, 1495-1502	2
436	Inorganic Nanoparticles as Drug Delivery Systems and Their Potential Role in the Treatment of Chronic Myelogenous Leukaemia. 2019 , 18, 1533033819853241	15
435	Rifampin Induces Expression of P-glycoprotein on the THP1 Cell-Derived Macrophages, Causing Decrease Intramacrophage Concentration of Prothionamide. 2019 , 108, 3106-3111	2

434	Crystal Structures of Protein-Bound Cyclic Peptides. 2019 , 119, 9861-9914	36
433	P-Glycoprotein Antibody Decorated Porous Hydrogel Particles for Capture and Release of Drug-Resistant Tumor Cells. 2019 , 8, e1900136	13
432	Unsymmetric dihydropyridines bearing 2-pyridyl methyl carboxylate as modulators of P-glycoprotein; synthesis and biological evaluation in resistant and non-resistant cancer cells. 2019 , 97, 603-614	0
431	An Energetically Favorable Ligand Entrance Gate of a Multidrug Transporter Revealed by Partial Nudged Elastic Band Simulations. 2019 , 17, 319-323	2
430	Combined administration of PTX and S-HM-3 in TPGS/Solutol micelle system for oncotarget therapy. 2019 , 14, 1011-1026	4
429	Computer Regression Models for P-Glycoprotein Transport of Drugs. 2019 , 52, 975-979	
428	Large-scale purification of functional human P-glycoprotein (ABCB1). 2019 , 159, 60-68	13
427	Function and Role of ATP-Binding Cassette Transporters as Receptors for 3D-Cry Toxins. 2019 , 11,	28
426	Intracellular and Intraorgan Concentrations of Small Molecule Drugs: Theory, Uncertainties in Infectious Diseases and Oncology, and Promise. 2019 , 47, 665-672	21
425	A multifunctional persistent luminescent nanoprobe for imaging guided dual-stimulus responsive and triple-synergistic therapy of drug resistant tumor cells. 2019 , 55, 5283-5286	15
424	Inhibitory effects of flavonoids on P-glycoprotein in vitro and in vivo: Food/herb-drug interactions and structure-activity relationships. 2019 , 369, 49-59	31
423	Hydrogen-deuterium exchange mass spectrometry of membrane proteins in lipid nanodiscs. 2019 , 220, 14-22	20
422	The role of ABCB1 polymorphism as a prognostic marker for primary central nervous system lymphoma. 2019 , 98, 923-930	4
421	Oncogenic PITX2 facilitates tumor cell drug resistance by inverse regulation of hOCT3/SLC22A3 and ABC drug transporters in colon and kidney cancers. 2019 , 449, 237-251	15
420	Eeyarestatin Compounds Selectively Enhance Sec61-Mediated Ca Leakage from the Endoplasmic Reticulum. 2019 , 26, 571-583.e6	22
419	Newly Synthesized Oxygenated Xanthenes as Potential P-Glycoprotein Activators: , , and Studies. 2019 , 24,	13
418	Structural insight into substrate and inhibitor discrimination by human P-glycoprotein. <i>Science</i> , 2019 , 363, 753-756	33-3 202
417	Molecular Pharmacognosy. 2019 ,	1

416	Organic Nanoparticles as Drug Delivery Systems and Their Potential Role in the Treatment of Chronic Myeloid Leukemia. 2019 , 18, 1533033819879902	8
415	Tetrandrine Interaction with ABCB1 Reverses Multidrug Resistance in Cancer Cells Through Competition with Anti-Cancer Drugs Followed by Downregulation of ABCB1 Expression. 2019 , 24,	30
414	P-glycoprotein influences urinary excretion of aldosterone in healthy individuals. 2019 , 37, 2225-2231	3
413	DNA damage and repair in the female germline: contributions to ART. 2019 , 25, 180-201	28
412	Probing the Pharmacological Binding Sites of P-Glycoprotein Using Umbrella Sampling Simulations. 2019 , 59, 2287-2298	8
411	Ebracpenes A and B, Unusual Ring C- seco and Ring D-aromatic Nor-Triterpenoids, from Euphorbia ebracteolata and Lipase Inhibitory Evaluation. 2019 , 84, 1624-1629	4
410	Different structures of berberine and five other protoberberine alkaloids that affect P-glycoprotein-mediated efflux capacity. 2019 , 40, 133-142	11
409	Seco-4-methyl-DCK derivatives as potent chemosensitizers. 2019 , 29, 28-31	2
408	Lipid-Dependent Alternating Access Mechanism of a Bacterial Multidrug ABC Exporter. 2019 , 5, 43-56	18
407	Inward- and outward-facing X-ray crystal structures of homodimeric P-glycoprotein CmABCB1. 2019 , 10, 88	32
406	The epigallocatechin gallate derivative Y reverses drug resistance mediated by the ABCB1 transporter both and. 2019 , 9, 316-323	11
405	Altered Gene expression of ABC transporters, nuclear receptors and oxidative stress signaling in zebrafish embryos exposed to CdTe quantum dots. 2019 , 244, 588-599	25
404	FK506 Resistance of Pdr5 and Cdr1 Involves Mutations in the Transmembrane Domains and Extracellular Loops. 2019 , 63,	13
403	Immuno-oncology agent IPI-549 is a modulator of P-glycoprotein (P-gp, MDR1, ABCB1)-mediated multidrug resistance (MDR) in cancer: In vitro and in vivo. 2019 , 442, 91-103	22
402	Synthesis and biological evaluation of novel H6 analogues as drug resistance reversal agents. 2019 , 161, 364-377	8
401	STRUCTURE, GATING, AND REGULATION OF THE CFTR ANION CHANNEL. 2019 , 99, 707-738	92
400	Overcoming P-Glycoprotein-Mediated Drug Resistance with Noscapine Derivatives. 2019 , 47, 164-172	15
399	Design, synthesis, and biological evaluation of indole carboxylic acid esters of podophyllotoxin as antiproliferative agents. 2019 , 28, 81-94	4

398	Overcoming chemotherapy resistance simultaneous drug-efflux circumvention and mitochondrial targeting. 2019 , 9, 615-625	41
397	The influence of polymorphisms in the drug transporter, ABCB1 on the toxicity of glucocorticoids in Saudi children with acute lymphoblastic leukaemia. 2019 , 71, 90-95	3
396	New insights into the structure of the MHC class I peptide-loading complex and mechanisms of TAP inhibition by viral immune evasion proteins. 2019 , 113, 103-114	14
395	Potential synergic mechanism of Wutou-Gancao herb-pair by inhibiting efflux transporter P-glycoprotein. 2020 , 10, 178-186	10
394	Design, Synthesis, and Pharmacological Evaluation of Potent Positive Allosteric Modulators of the Glucagon-like Peptide-1 Receptor (GLP-1R). 2020 , 63, 2292-2307	9
393	Reduced expression of the P-glycoprotein gene PxABCB1 is linked to resistance to Bacillus thuringiensis Cry1Ac toxin in Plutella xylostella (L.). 2020 , 76, 712-720	21
392	Potential Tools for Eradicating HIV Reservoirs in the Brain: Development of Trojan Horse Prodrugs for the Inhibition of P-Glycoprotein with Anti-HIV-1 Activity. 2020 , 63, 2131-2138	10
391	Efflux transporters in cancer resistance: Molecular and functional characterization of P-glycoprotein. 2020 , 1-30	0
390	Probing cholesterol binding and translocation in P-glycoprotein. 2020 , 1862, 183090	6
389	The CYSMA web server: An example of integrative tool for in silico analysis of missense variants identified in Mendelian disorders. 2020 , 41, 375-386	1
388	Hormonal Regulation of Epithelial Sodium Channel (ENaC) and Other Nonneuronal Epithelial Ion Channels. 2020 , 283-309	
387	RCSB Protein Data Bank: Enabling biomedical research and drug discovery. 2020 , 29, 52-65	107
386	Enhanced EPhase in Direct Ink Writing PVDF Thin Films by Intercalation of Graphene. 2020 , 30, 1497-1502	12
385	The aggregation of striped nanoparticles in mixed phospholipid bilayers. 2020 , 12, 4868-4881	3
384	Anticancer activity of ruthenium and osmium cyclometalated compounds: identification of ABCB1 and EGFR as resistance mechanisms. 2020 , 7, 678-688	20
383	MicroRNA-mediated suppression of P-glycoprotein by quantum dots in lung cancer cells. 2020 , 40, 525-534	8
382	Structural characterization and antioxidant activity of a glycoprotein isolated from Camellia oleifera Abel seeds against D-galactose-induced oxidative stress in mice. 2020 , 64, 103594	7
381	Structure of the human lipid exporter ABCB4 in a lipid environment. 2020 , 27, 62-70	33

380	The effect of genetic variations on ribavirin pharmacokinetics and treatment response in HCV-4 Egyptian patients receiving sofosbuvir/daclatasvir and ribavirin. 2020 , 121, 109657	4
379	Is the emperor wearing shorts? The published structures of ABC transporters. 2020 , 594, 3790-3798	2
378	Mamma Mia, P-glycoprotein binds again. 2020 , 594, 4076-4084	3
377	Doxorubicin uptake in ascitic lymphoma model: resistance or curability is governed by tumor cell density and prolonged drug retention. 2020 , 11, 6497-6506	1
376	Nitrogen-containing naringenin derivatives for reversing multidrug resistance in cancer. 2020 , 28, 115798	8
375	Cryo-EM structures reveal distinct mechanisms of inhibition of the human multidrug transporter ABCB1. 2020 , 117, 26245-26253	50
374	Moesin-Mediated P-Glycoprotein Activation During Snail-Induced Epithelial-Mesenchymal Transition in Lung Cancer Cells. 2020 , 109, 2302-2308	10
373	Mdm2 inhibitors as a platform for the design of P-glycoprotein inhibitors. 2020 , 30, 127424	6
372	Efflux mechanism and pathway of verapamil pumping by human P-glycoprotein. 2020 , 696, 108675	7
371	P-Glycoprotein: One Mechanism, Many Tasks and the Consequences for Pharmacotherapy of Cancers. 2020 , 10, 576559	19
370	Disruption of small molecule transporter systems by Transporter-Interfering Chemicals (TICs). 2020 , 594, 4158-4185	3
369	From in vitro towards in situ: structure-based investigation of ABC exporters by electron paramagnetic resonance spectroscopy. 2020 , 594, 3839-3856	6
368	Effect of Starvation in Reversing Cancer Chemoresistance Based on Drug-Resistance Detection by Dextran Nanoparticles. 2020 , 15, 9255-9264	0
367	The structural basis of promiscuity in small multidrug resistance transporters. 2020 , 11, 6064	11
366	Combining Machine Learning and Molecular Dynamics to Predict P-Glycoprotein Substrates. 2020 , 60, 4730-4749	12
365	A structural framework for unidirectional transport by a bacterial ABC exporter. 2020 , 117, 19228-19236	9
364	Polymer nanomedicines. 2020 , 156, 40-64	25
363	Laser-Responsive Polymeric Nanomicelles to Subdue Tumor Multidrug Resistance Based on Mild Photodynamic Therapy and Chemotherapy. 2020 , 3, 6702-6710	4

362	An embedded lipid in the multidrug transporter LmrP suggests a mechanism for polyspecificity. 2020 , 27, 829-835	25
361	Ecdysteroid Derivatives that Reverse P-Glycoprotein-Mediated Drug Resistance. 2020 , 83, 2434-2446	6
360	ABCB transporters in a leaf beetle respond to sequestered plant toxins. 2020 , 287, 20201311	9
359	What monomeric nucleotide binding domains can teach us about dimeric ABC proteins. 2020 , 594, 3857-3875	9
358	Tripartite transporters as mechanotransmitters in periplasmic alternating-access mechanisms. 2020 , 594, 3908-3919	4
357	Methods to optimize CNS exposure of drug candidates. 2020 , 30, 127503	4
356	The P-glycoprotein repertoire of the equine parasitic nematode <i>Parascaris univalens</i> . 2020 , 10, 13586	6
355	Biophysical Characterization and Anticancer Activities of Photosensitive Phytoanthraquinones Represented by Hypericin and Its Model Compounds. 2020 , 25,	5
354	Computational Insights into Allosteric Conformational Modulation of P-Glycoprotein by Substrate and Inhibitor Binding. 2020 , 25,	3
353	Study on reversal of ABCB1 mediated multidrug resistance in Colon cancer by acetogenins: An - approach. 2020 , 1-12	7
352	Quercetin acts as a P-gp modulator via impeding signal transduction from nucleotide-binding domain to transmembrane domain. 2020 , 1-9	11
351	Advances in Antioxidative Bioactive Macromolecules. 2020 , 512, 012094	3
350	Sapitinib Reverses Anticancer Drug Resistance in Colon Cancer Cells Overexpressing the ABCB1 Transporter. 2020 , 10, 574861	8
349	The first intracellular loop is essential for the catalytic cycle of the human ABCG2 multidrug resistance transporter. 2020 , 594, 4059-4075	2
348	Enhancing the chemotherapy effect of Apatinib on gastric cancer by co-treating with salidroside to reprogram the tumor hypoxia micro-environment and induce cell apoptosis. 2020 , 27, 691-702	9
347	Pharmacogenomics and Psychopharmacology. 2020 , 151-202	2
346	Structure-Permeability Relationship of Semipeptidic Macrocycles-Understanding and Optimizing Passive Permeability and Efflux Ratio. 2020 , 63, 6774-6783	8
345	βSecretase Partitioning into Lipid Bilayers Remodels Membrane Microdomains after Direct Insertion. 2020 , 36, 6569-6579	3

344	Homology Modeling of the Human P-glycoprotein (ABCB1) and Insights into Ligand Binding through Molecular Docking Studies. 2020 , 21,	12
343	Induction of Cytochrome P450 Systems. 2020 , 109-181	
342	Theoretical studies on 1,4-dihydropyridine derivatives as P-glycoprotein allosteric inhibitors: insights on symmetry and stereochemistry. 2021 , 39, 4752-4763	4
341	The critical size of gold nanoparticles for overcoming P-gp mediated multidrug resistance. 2020 , 12, 16451-16461	
340	Edoxaban and the Issue of Drug-Drug Interactions: From Pharmacology to Clinical Practice. 2020 , 80, 1065-1083	13
339	A milbemycin compound isolated from <i>Streptomyces</i> Sp. FJS31-2 with cytotoxicity and reversal of cisplatin resistance activity in A549/DDP cells. 2020 , 128, 110322	4
338	Computational Bioengineering and Bioinformatics. 2020 ,	1
337	Perplexing Role of P-Glycoprotein in Tumor Microenvironment. 2020 , 10, 265	38
336	A mycobacterial ABC transporter mediates the uptake of hydrophilic compounds. 2020 , 580, 409-412	39
335	On interactions of P-glycoprotein with various anti-tumor drugs by binding free energy calculations. 2021 , 39, 5335-5347	1
334	Importance of efflux pumps in subjugating antibiotic resistance. 2020 , 273-299	1
333	Capturing Substrate Translocation in an ABC Exporter at the Atomic Level. 2020 , 142, 12791-12801	5
332	Nanotechnology for intracellular delivery and targeting. 2020 , 683-696	0
331	Theoretical insights on helix repacking as the origin of P-glycoprotein promiscuity. 2020 , 10, 9823	9
330	Structure/Function Analysis of human ZnT8 (SLC30A8): A Diabetes Risk Factor and Zinc Transporter. 2020 , 2, 144-155	4
329	Epithelial to Mesenchymal Transition: A Mechanism that Fuels Cancer Radio/Chemoresistance. 2020 , 9,	39
328	Carbohydrate-Binding Capability and Functional Conformational Changes of AbnE, an Arabino-oligosaccharide Binding Protein. 2020 , 432, 2099-2120	1
327	Replacing the eleven native tryptophans by directed evolution produces an active P-glycoprotein with site-specific, non-conservative substitutions. 2020 , 10, 3224	5

326	Polymeric Nanoparticles for the Treatment of Malignant Gliomas. 2020 , 12,	38
325	Intrinsically disordered regions regulate the activities of ATP binding cassette transporters. 2020 , 1862, 183202	4
324	Medicinal chemistry strategies to discover P-glycoprotein inhibitors: An update. 2020 , 49, 100681	93
323	Reversal of P-glycoprotein-mediated multidrug resistance by novel curcumin analogues in paclitaxel-resistant human breast cancer cells. 2020 , 98, 484-491	14
322	Application of the Tumor Site Recognizable and Dual-Responsive Nanoparticles for Combinational Treatment of the Drug-Resistant Colorectal Cancer. 2020 , 37, 72	7
321	Identification and experimental confirmation of novel cGMP efflux inhibitors by virtual ligand screening of vardenafil-analogues. 2020 , 126, 110109	6
320	Epigenetic Regulation of Multidrug Resistance Protein 1 and Breast Cancer Resistance Protein Transporters by Histone Deacetylase Inhibition. 2020 , 48, 459-480	13
319	Cross-linking, DEER-spectroscopy and molecular dynamics confirm the inward facing state of P-glycoprotein in a lipid membrane. 2020 , 211, 107513	5
318	Cannabidiol (CBD) Inhibited Rhodamine-123 Efflux in Cultured Vascular Endothelial Cells and Astrocytes Under Hypoxic Conditions. 2020 , 14, 32	7
317	Impact of ABCB1 Gene (C3435T/A2677G) Polymorphic Sequence Variations on the Outcome of Patients with Chronic Myeloid Leukemia and Acute Lymphoblastic Leukemia in Kashmiri Population: A Case-Control Study. 2021 , 37, 21-29	
316	Co-administration of paclitaxel and 2-methoxyestradiol using folate-conjugated human serum albumin nanoparticles for improving drug resistance and antitumor efficacy. 2021 , 26, 1-10	4
315	Ultrasound-enhanced fluorescence imaging and chemotherapy of multidrug-resistant tumors using multifunctional dendrimer/carbon dot nanohybrids. 2021 , 6, 729-739	35
314	A Tubular DNA Nanodevice as a siRNA/Chemo-Drug Co-delivery Vehicle for Combined Cancer Therapy. 2021 , 133, 2626-2630	3
313	A Tubular DNA Nanodevice as a siRNA/Chemo-Drug Co-delivery Vehicle for Combined Cancer Therapy. 2021 , 60, 2594-2598	32
312	Structure and Function of Hepatobiliary ATP Binding Cassette Transporters. 2021 , 121, 5240-5288	9
311	ABCG: a new fold of ABC exporters and a whole new bag of riddles!. 2021 , 123, 163-191	4
310	Chemical effects on dye efflux activity in live zebrafish embryos and on zebrafish Abcb4 ATPase activity. 2021 , 595, 828-843	8
309	Mechanisms of transplacental transport and barrier of polybrominated diphenyl ethers: A comprehensive human, Sprague-Dawley rat, BeWo cell and molecular docking study. 2021 , 270, 116091	

308	Alkylated monoterpene indole alkaloid derivatives as potent P-glycoprotein inhibitors in resistant cancer cells. 2021 , 210, 112985	4
307	PAMAM G4.5 dendrimers for targeted delivery of ferulic acid and paclitaxel to overcome P-glycoprotein-mediated multidrug resistance. 2021 , 118, 1213-1223	8
306	ABCB1/MDR1/P-gp employs an ATP-dependent twist-and-squeeze mechanism to export hydrophobic drugs. 2021 , 595, 707-716	3
305	Xanthones as P-glycoprotein modulators and their impact on drug bioavailability. 2021 , 17, 441-482	4
304	Novel Cells-Based Electrochemical Sensor for Investigating the Interactions of Cancer Cells with Molecules and Screening Multitarget Anticancer Drugs. 2021 , 93, 1480-1488	4
303	Systems Biology Approaches to Enzyme Kinetics. 2021 , 2342, 419-440	
302	Carbon nano-onion-mediated dual targeting of P-selectin and P-glycoprotein to overcome cancer drug resistance. 2021 , 12, 312	18
301	Identification and characterisation of putative drug binding sites in human ATP-binding cassette B5 (ABCB5) transporter. 2021 , 19, 691-704	3
300	Preparation of Cell Extracts for Purification of Proteins Expressed in. 2021 , 2021,	2
299	Synthesis and Evaluation of Dendroamide A and Three Regioisomeric Analogs Having a Reversed Azole Ring as P-Glycoprotein Inhibitors. 2021 , 102, 900	
298	Expression and Purification of Human Mitochondrial Intramembrane Protease PARL. 2021 , 2302, 1-20	0
297	Simultaneous binding mechanism of multiple substrates for multidrug resistance transporter P-glycoprotein. 2021 , 23, 4530-4543	2
296	Expression of Cloned Genes in Using the Methanol-Inducible Promoter. 2021 , 2021,	3
295	A multidrug-resistant P-glycoprotein assembly revealed by tariquidar-probe's super-resolution imaging. 2021 , 13, 16995-17002	2
294	The Structure and Mechanism of Drug Transporters. 2021 , 2342, 193-234	3
293	Teaching an old dog new tricks: reactivated developmental signaling pathways regulate ABCB1 and chemoresistance in cancer.. 2021 , 4, 424-452	1
292	The ADME Encyclopedia. 2021 , 1-8	
291	Molecular docking study of lignanamides from against P-glycoprotein. 2021 , 9, 6	5

290	The ADME Encyclopedia. 2021 , 1-10	0
289	Mechanistic basis of breast cancer resistance protein inhibition by new indeno[1,2-b]indoles. 2021 , 11, 1788	6
288	Design, synthesis, and biological evaluation of hederagenin derivatives with improved aqueous solubility and tumor resistance reversal activity. 2021 , 211, 113107	2
287	Ellagic Acid and Schisandrins: Natural Biaryl Polyphenols with Therapeutic Potential to Overcome Multidrug Resistance in Cancer. 2021 , 10,	5
286	Lysine 268 adjacent to transmembrane helix 5 of hamster P-glycoprotein is the major photobinding site of iodomyacin in CHO B30 cells. 2021 , 11, 1084-1092	
285	Pharyngeal Pumping and Tissue-Specific Transgenic P-Glycoprotein Expression Influence Macrocyclic Lactone Susceptibility in. 2021 , 14,	5
284	Does the ATP-bound EQ mutant reflect the pre- or post-ATP hydrolysis state in the catalytic cycle of human P-glycoprotein (ABCB1)?. 2021 , 595, 750-762	2
283	Role of transmembrane spanning domain 1 in cystic fibrosis transmembrane conductance regulator folding.	
282	Screening of Natural Compounds as P-Glycoprotein Inhibitors against Multidrug Resistance. 2021 , 9,	8
281	Konventionelle nuklearmedizinische Bildgebung bei Hyperparathyreoidismus. 2021 , 14, E1-E14	
280	Drug-bound and -free outward-facing structures of a multidrug ABC exporter point to a swing mechanism.	2
279	Current strategies for oral delivery of BCS IV drug nanocrystals: challenges, solutions and future trends. 2021 , 18, 1211-1228	0
278	The crystal structure of the CmABCB1 G132V mutant, which favors the outward-facing state, reveals the mechanism of the pivotal joint between TM1 and TM3. 2021 , 30, 1064-1071	1
277	Extended-Ensemble Docking to Probe Evolution of Ligand Binding Sites During Large-Scale Structural Changes of Proteins.	1
276	Discovery of Encequidar, First-in-Class Intestine Specific P-glycoprotein Inhibitor. 2021 , 64, 3677-3693	13
275	Enzymatic trans-bilayer lipid transport: Mechanisms, efficiencies, slippage, and membrane curvature. 2021 , 1863, 183534	3
274	Structure, Assembly, and Function of Tripartite Efflux and Type 1 Secretion Systems in Gram-Negative Bacteria. 2021 , 121, 5479-5596	22
273	Multidrug Resistance in Mammals and Fungi-From MDR to PDR: A Rocky Road from Atomic Structures to Transport Mechanisms. 2021 , 22,	11

272	CRISPR/Cas9 mutagenesis reveals a role for ABCB1 in gut immune responses to <i>Vibrio diazotrophicus</i> in sea urchin larvae. 2021 , 224,	2
271	Direct N-Selective Alkylation of Hydantoins Using Potassium Bases. 2021 , 69, 407-410	0
270	Cancer Drug Resistance Targets and Therapies. 1-27	
269	Transport of Alzheimer's associated amyloid- β catalyzed by P-glycoprotein. 2021 , 16, e0250371	3
268	MDR1 protein (ABC-C1) Over Expression in <i>Giardia Intestinalis</i> Incubated with Albendazole and Nitazoxanide. 2021 , 66, 1158-1166	1
267	Recent Progress in the Development of Quinoline Derivatives for the Exploitation of Anti-Cancer Agents. 2021 , 21, 825-838	4
266	De novo macrocyclic peptides dissect energy coupling of a heterodimeric ABC transporter by multimode allosteric inhibition. 2021 , 10,	1
265	Mastering the Gram-negative bacterial barrier - Chemical approaches to increase bacterial bioavailability of antibiotics. 2021 , 172, 339-360	13
264	In silico analyses of toxicity of the major constituents of essential oils from two <i>Ipomoea</i> L. species. 2021 , 195, 111-118	18
263	Involvement of ABC transporters in the detoxification of non-substrate nanoparticles in lung and cervical cancer cells. 2021 , 455, 152762	8
262	Acquired drug resistance enhances imidazoquinoline efflux by P-glycoprotein.	
261	Beauvericin potentiates the activity of pesticides by neutralizing the ATP-binding cassette transporters in arthropods. 2021 , 11, 10865	2
260	Recent Insights into the Structure and Function of Mycobacterial Membrane Proteins Facilitated by Cryo-EM. 2021 , 254, 321-341	4
259	Unraveling the Novel Effect of Patchouli Alcohol Against the Antibiotic Resistance of. 2021 , 12, 674560	0
258	Designing potent inhibitors against the multidrug resistance P-glycoprotein. 2021 , 1-13	
257	Structure of ABCB1/P-glycoprotein bound to the CFTR potentiator ivacaftor.	0
256	Phytochemicals reverse P-glycoprotein mediated multidrug resistance via signal transduction pathways. 2021 , 139, 111632	7
255	The Effect of Oxidative Stress on the Transport of the P-Glycoprotein Substrate through the Cell Monolayer. 2021 , 15, 257-269	0

254	Polyoxypregnanes as safe, potent, and specific ABCB1-inhibitory pro-drugs to overcome multidrug resistance in cancer chemotherapy and. 2021 , 11, 1885-1902	1
253	Targeting Systems to the Brain Obtained by Merging Prodrugs, Nanoparticles, and Nasal Administration. 2021 , 13,	1
252	Structural Insights into Transporter-Mediated Drug Resistance in Infectious Diseases. 2021 , 433, 167005	3
251	Exploring the Monoterpene Indole Alkaloid Scaffold for Reversing P-Glycoprotein-Mediated Multidrug Resistance in Cancer. 2021 , 14,	2
250	Convection enhanced delivery of light responsive antigen capturing oxygen generators for chemo-phototherapy triggered adaptive immunity. 2021 , 275, 120974	2
249	Dynamic EMT: a multi-tool for tumor progression. 2021 , 40, e108647	33
248	Edoxaban in cardiovascular disease management: Review. 2021 ,	0
247	Developing fourth-generation biofuels secreting microbial cell factories for enhanced productivity and efficient product recovery; a review. 2021 , 298, 120858	5
246	Oral Site-Directed Drug Delivery and Influence on PK. 99-219	
245	Function-Related Dynamics in Multi-Spanning Helical Membrane Proteins Revealed by Solution NMR. 2021 , 11,	0
244	Protein functional dynamics from the rigorous global analysis of DEER data: Conditions, components, and conformations. 2021 , 153,	1
243	Can two wrongs make a right? F508del-CFTR ion channel rescue by second-site mutations in its transmembrane domains.	
242	Effect of the Force Field on Molecular Dynamics Simulations of the Multidrug Efflux Protein P-Glycoprotein. 2021 , 17, 6491-6508	3
241	Reversing Multidrug Resistance by Inducing Mitochondrial Dysfunction for Enhanced Chemo-Photodynamic Therapy in Tumor. 2021 , 13, 45259-45268	2
240	Triterpenoids with modified A-ring as modulators of P-gp-dependent drug-resistance in cancer cells. 2021 , 348, 109645	3
239	Insight into structural description of novel 1,4-Diacetyl-3,6-bis(phenylmethyl)-2,5-piperazinedione: synthesis, NMR, IR, Raman, X-ray, Hirshfeld surface, DFT and docking on breast cancer resistance protein. 2022 , 1248, 131435	2
238	Recent advances in chemical ecology: complex interactions mediated by molecules. 2021 , 85, 33-41	2
237	Drug discovery and development: An overview of modern methods and principles. 2021 , 1-41	

- 236 Kinetic Design for Establishing Long-Term Stationary Cytosol Concentrations During Drug Transport across P-gp Expressing Confluent Cell Monolayers to Facilitate Measuring Cytosol Concentration, Fitting Drug Molar Partition Coefficients into the Cytosolic Monolayer of the Plasma Membrane, and Kinetically Identifying Drug Uptake Transporters. **2021**, 41-65
- 235 CHAPTER 5: Drug Efflux Transporters: P-gp and BCRP. **2021**, 109-127
- 234 Active participation of membrane lipids in inhibition of multidrug transporter P-glycoprotein. **2021**, 12, 6293-6306 6
- 233 Conformers, Properties of the Anticancer Drug Plocabulin, and its Binding Mechanism with p-Glycoprotein: DFT and MD Studies. **2021**, 74, 529
- 232 The ABC Transporters: Structural Insights into Drug Transport. **2009**, 1-48 2
- 231 ABC Transporters [From Targets to Antitargets?]. **2009**, 349-362 2
- 230 Role of P-glycoprotein at the blood-testis barrier on adjuvin distribution in the testis: a revisit of recent data. **2012**, 763, 318-33 13
- 229 Drug Transporters At Brain Barriers. **2013**, 20-69 16
- 228 Multidrug Resistance in Cancer: A Tale of ABC Drug Transporters. **2013**, 1-34 5
- 227 CFTR three-dimensional structure. **2011**, 741, 329-46 8
- 226 Biochemical and biophysical approaches to probe CFTR structure. **2011**, 741, 365-76 4
- 225 NMR spectroscopy to study the dynamics and interactions of CFTR. **2011**, 741, 377-403 9
- 224 Structure-Function of Plant ABC-Transporters. **2014**, 219-240 3
- 223 Evolution of Transport Directionality in ABCBs. **2014**, 271-285 3
- 222 Functional Properties of Organic Cation Transporter OCT1, Binding of Substrates and Inhibitors, and Presumed Transport Mechanism. **2016**, 49-72 1
- 221 Active Efflux as a Mechanism of Resistance to Antimicrobial Drugs. **2017**, 131-148 4
- 220 Structure-Function Analyses of Multidrug Transporters. **2017**, 379-406 2
- 219 ABC Transporters and Their Function at the Plasma Membrane. **2011**, 353-377 5

218	Topology prediction of membrane proteins: how distantly related homologs come into play. 2010 , 61-82	1
217	Toxicology, Safety and HerbDrug Interactions in Cancer Therapy. 2010 , 293-340	1
216	ABC Family Transporters. 2019 , 1141, 13-100	76
215	Intestinal Transporter-Associated Drug Absorption and Toxicity. 2019 , 1141, 361-405	7
214	Identification of chemosensitizers by drug repurposing to enhance the efficacy of cancer therapy. 2020 , 295-310	1
213	Bisbenzylisoquinoline alkaloids and P-glycoprotein function: A structure activity relationship study. 2020 , 28, 115553	7
212	N-alkanol-N-cyclohexanol amine aryl esters: Multidrug resistance (MDR) reversing agents with high potency and efficacy. 2017 , 127, 586-598	9
211	Mutational Analysis of Intracellular Loops Identify Cross Talk with Nucleotide Binding Domains of Yeast ABC Transporter Cdr1p. 2015 , 5, 11211	24
210	Redox-triggered mitoxantrone prodrug micelles for overcoming multidrug-resistant breast cancer. 2018 , 26, 75-85	20
209	Active Participation of Membrane Lipids in Inhibition of Multidrug Transporter P-Glycoprotein.	1
208	Novel features in the structure of P-glycoprotein (ABCB1) in the post-hydrolytic state as determined at 7.9Å resolution.	1
207	Structural definition of polyspecific compensatory ligand recognition by P-glycoprotein. 2020 , 7, 663-672	12
206	A Computational Approach towards the Understanding of Plasmodium falciparum Multidrug Resistance Protein 1. 2013 , 2013, 437168	4
205	A2A adenosine receptor modulates drug efflux transporter P-glycoprotein at the blood-brain barrier. 2016 , 126, 1717-33	49
204	Plant Compounds and Derivatives as Inhibitors of Cancer Cell Multidrug Resistance. 2011 , 409-450	2
203	Multidrug transporters: recent insights from cryo-electron microscopy-derived atomic structures and animal models. 2020 , 9,	11
202	Flavonoids: An Emerging Lead in the P-glycoprotein Inhibition. 2012 , 5, 72-78	1
201	A multidrug ABC transporter with a taste for salt. 2009 , 4, e6137	30

200	Fitting the elementary rate constants of the P-gp transporter network in the hMDR1-MDCK confluent cell monolayer using a particle swarm algorithm. 2011 , 6, e25086	16
199	BIRB796, the inhibitor of p38 mitogen-activated protein kinase, enhances the efficacy of chemotherapeutic agents in ABCB1 overexpression cells. 2013 , 8, e54181	18
198	Detergent screening and purification of the human liver ABC transporters BSEP (ABCB11) and MDR3 (ABCB4) expressed in the yeast <i>Pichia pastoris</i> . 2013 , 8, e60620	27
197	Genetic variants and increased expression of <i>Parascaris equorum</i> P-glycoprotein-11 in populations with decreased ivermectin susceptibility. 2013 , 8, e61635	46
196	Transport inhibition of digoxin using several common P-gp expressing cell lines is not necessarily reporting only on inhibitor binding to P-gp. 2013 , 8, e69394	25
195	Modeling the conformational changes underlying channel opening in CFTR. 2013 , 8, e74574	41
194	Multiple transport-active binding sites are available for a single substrate on human P-glycoprotein (ABCB1). 2013 , 8, e82463	71
193	Tissue-specific transcript profiling for ABC transporters in the sequestering larvae of the phytophagous leaf beetle <i>Chrysomela populi</i> . 2014 , 9, e98637	29
192	Molecular docking simulations provide insights in the substrate binding sites and possible substrates of the ABCC6 transporter. 2014 , 9, e102779	21
191	The reversal effects of 3-bromopyruvate on multidrug resistance in vitro and in vivo derived from human breast MCF-7/ADR cells. 2014 , 9, e112132	24
190	Identification of a Cryptic Bacterial Promoter in Mouse (<i>mdr1a</i>) P-Glycoprotein cDNA. 2015 , 10, e0136396	5
189	D-helix influences dimerization of the ATP-binding cassette (ABC) transporter associated with antigen processing 1 (TAP1) nucleotide-binding domain. 2017 , 12, e0178238	6
188	Classification of P-glycoprotein-interacting compounds using machine learning methods. 2015 , 14, 958-70	9
187	P-glycoprotein transporter in drug development. 2016 , 15, 113-8	19
186	Cytochrome P450 Enzymes, Drug Transporters and their Role in Pharmacokinetic Drug-Drug Interactions of Xenobiotics: A Comprehensive Review. 001-011	3
185	[Computer modeling of blood brain barrier permeability of physiologically active compounds]. 2014 , 60, 161-81	8
184	Bufalin reverses ABCB1-mediated drug resistance in colorectal cancer. 2017 , 8, 48012-48026	21
183	Structural recognition of tubulysin B derivatives by multidrug resistance efflux transporters in human cancer cells. 2017 , 8, 49973-49987	7

182	Quizartinib (AC220) reverses ABCG2-mediated multidrug resistance: and studies. 2017 , 8, 93785-93799	21
181	Enzastaurin inhibits ABCB1-mediated drug efflux independently of effects on protein kinase C signalling and the cellular p53 status. 2015 , 6, 17605-20	8
180	Emerging consensus on the mechanism of polyspecific substrate recognition by the multidrug transporter P-glycoprotein.. 2019 , 2, 471-489	3
179	Recent advances in the search of BCRP- and dual P-gp/BCRP-based multidrug resistance modulators.. 2019 , 2, 710-743	3
178	ATP-binding Cassette Exporters: Structure and Mechanism with a Focus on P-glycoprotein and MRP1. 2019 , 26, 1062-1078	16
177	In Silico Prediction of P-glycoprotein Binding: Insights from Molecular Docking Studies. 2019 , 26, 1746-1760	12
176	Dual Inhibitors as a New Challenge for Cancer Multidrug Resistance Treatment. 2019 , 26, 6074-6106	19
175	Flavonoids as P-gp Inhibitors: A Systematic Review of SARs. 2019 , 26, 4799-4831	12
174	Curcumin and genistein: the combined effects on disease-associated CFTR mutants and their clinical implications. 2013 , 19, 3521-8	19
173	ABC transporters in multidrug resistance and pharmacokinetics, and strategies for drug development. 2014 , 20, 793-807	304
172	Clinical Implications of Methotrexate Pharmacogenetics in Childhood Acute Lymphoblastic Leukaemia. 2019 , 20, 313-330	11
171	Nanotechnological Innovations Enhancing the Topical Therapeutic Efficacy of Quercetin: A Succinct Review. 2020 , 17, 270-278	15
170	Interaction of oligomeric breast cancer resistant protein (BCRP) with adjuvin: a male contraceptive with anti-cancer activity. 2014 , 7, 147-53	2
169	How Can Drug Metabolism and Transporter Genetics Inform Psychotropic Prescribing?. 2020 , 11, 491895	10
168	P-glycoprotein multidrug transporter in inflammatory bowel diseases: More questions than answers. 2017 , 23, 1513-1520	21
167	Smart systems related to polypeptide sequences. 2016 , 3, 289-323	4
166	Characterisation of the salmon cystic fibrosis transmembrane conductance regulator protein for structural studies. 2014 , 1, 141-161	3
165	Simulation of lipid-protein interactions with the CgProt force field. 2017 , 4, 352-369	6

164	Recent developments in nitric oxide-releasing biomaterials for biomedical applications. 2019 , 9, 184-191	6
163	Some substrates of P-glycoprotein targeting <i></i>-amyloid clearance by quantitative structure-activity relationship (QSAR)/membrane-interaction (MI)-QSAR analysis. 2013 , 04, 872-895	1
162	Synthesis and Biological Evaluation of Phenoxy-N-phenylacetamide Derivatives as Novel P-glycoprotein Inhibitors. 2011 , 32, 3666-3674	5
161	Various Partial Charge Schemes on 3D-QSAR Models for P-gp Inhibiting Adamantyl Derivatives. 2011 , 32, 1604-1612	2
160	In silico Study on the Interaction between P-glycoprotein and Its Inhibitors at the Drug Binding Pocket. 2014 , 35, 2317-2325	8
159	Overexpression of P-glycoprotein induces acquired resistance to imatinib in chronic myelogenous leukemia cells. 2012 , 31, 110-8	49
158	ABC transporter functions as a pacemaker for sequestration of plant glucosides in leaf beetles. 2013 , 2, e01096	46
157	Conformational dynamics of the nucleotide binding domains and the power stroke of a heterodimeric ABC transporter. 2014 , 3, e02740	93
156	Structure of bacterial phospholipid transporter MlaFEDB with substrate bound. 2020 , 9,	17
155	Photoactivatable Biomedical Materials Based on Luminogens with Aggregation-Induced Emission (AIE) Characteristics. 2021 , e2101177	6
154	An Aptamer-Modified DNA Tetrahedron-Based Nanogel for Combined Chemo/Gene Therapy of Multidrug-Resistant Tumors.. 2021 , 4, 7701-7707	4
153	Advances in understanding the role of P-gp in doxorubicin resistance: Molecular pathways, therapeutic strategies, and prospects. 2021 , 27, 436-436	13
152	QSAR Studies on ABC Transporter [How to Deal with Polyspecificity. 2009 , 195-214	
151	[ABC transporters' impact on effect and metabolism of drugs]. 2011 , 131, 1084-7	
150	Introduction to section IV: biophysical methods to approach CFTR structure. 2011 , 741, 321-7	1
149	Mass Action Kinetic Analysis of Multidrug Resistance Transporters Expressed in Confluent Cell Monolayers. 2011 , 241-272	
148	From SNP Genotyping to Improved Pediatric Healthcare. 2012 , 359-378	
147	Membrane Transport ABC Transporters. 2013 , 1076-1081	

- 146 Vemurafenib (PLX4032, Zelboraf[®]), a BRAF Inhibitor, Modulates ABCB1-, ABCG2-, and ABCC10-Mediated Multidrug Resistance.
- 145 Membrane Transport | Multidrug Resistance Membrane Proteins. **2013**, 1082-1087
- 144 Investigation of Binding Modes of the Verapamil and Curcumin into Human P-glycoprotein (P-gp). **2013**, 6, 205-210
- 143 ADMET Prediction Based on Protein Structures. **2014**, 287-322
- 142 Structure and Mechanism of a Eukaryotic ABC Multidrug Transporter. **2014**, 56, 224-229
- 141 The Role of P-Glycoprotein in Psychiatric Disorders and in Psychiatric Treatment. **2014**, 65-90
- 140 Systems biology approaches to enzyme kinetics: analyzing network models of drug metabolism. **2014**, 1113, 317-34 1
- 139 Case Study: Systems Biology of Chemotherapy Resistance in Hypoxic Cancer. **2014**, 49-61
- 138 Radiopharmaceuticals for the Imaging of ABC-Transporter-Mediated Multidrug Resistance in Cancer. **2015**, 133-151
- 137 Chapter 13: The Business Case for Green Chemistry in Drug Discovery. **2015**, 280-313 1
- 136 Ligand Selection and Trafficking for MHC I. **2016**, 233-240
- 135 [Classification models of structure - P-glycoprotein activity of drugs]. **2016**, 62, 173-9
- 134 Computational Pharmacogenetics of P-Glycoprotein Mediated Antiepileptic Drug Resistance.
- 133 Function of Peroxisome in Mammal and Analysis of the Fatty Acid Oxidation System by Photoaffinity Labeling. **2017**, 197-223
- 132 Assaying uptake of endocrine disruptor compounds in zebrafish embryos and larvae.
- 131 Lipid-Uptake Pathways and Lipid-Protein interactions in P-glycoprotein Revealed by Coarse-Grained Molecular Dynamics Simulations.
- 130 Genomics and Drug Transporters and Application in Drug Discovery, Delivery, and Development. **2018**, 133-175
- 129 Membrane Asymmetry and Phospholipid Translocases in Eukaryotic Cells. **2018**, 47-76

- 128 Allosteric Role of Substrate Occupancy Toward the Alignment of P-glycoprotein Nucleotide Binding Domains.
- 127 In silico prioritization of transporter-drug relationships from drug sensitivity screens. 2
- 126 Computational Pharmacogenetics of P-Glycoprotein Mediated Antiepileptic Drug Resistance. **2018**, 11, 197-207 0
- 125 Biological Events and Barriers to Effective Delivery of Cancer Therapeutics. **2019**, 13-31
- 124 Synthetic Biology of Active Compounds. **2019**, 267-291
- 123 Substrate Transport is Mediated not only by P-glycoprotein but also by Lipid Penetration.
- 122 Does human P-glycoprotein efflux involve transmembrane alpha helix breakage?. 1
- 121 Crosslinking of nucleotide binding domains improves the coupling efficiency of an ABC transporter.
- 120 Structure of bacterial phospholipid transporter MlaFEDB with substrate bound. 3
- 119 New Antagonists of the Membrane Androgen Receptor OXER1 from the ZINC Natural Product Database. **2021**, 6, 29664-29674 2
- 118 (+/-)-Borneol Reverses Mitoxantrone Resistance against P-Glycoprotein. **2021**, 61, 252-262 4
- 117 The Role of P-Glycoprotein at the BloodBrain Barrier in Neurological and Psychiatric Disease. **2021**, 45-81
- 116 Expressing Cloned Genes for Protein Production, Purification, and Analysis. **2021**, 2021, 1
- 115 Membrane Protein Structure and Folding. **2020**, 159-206
- 114 Free Radical Scavenger Activity and P-glycoprotein Inhibition Capacity of 1,2,4-Trihydroxyxanthone. **2020**, 92-103
- 113 Transport of Alzheimer's Associated Amyloid- β Catalyzed by P-glycoprotein.
- 112 Konventionelle nuklearmedizinische Bildgebung bei Hyperparathyreoidismus. **2020**, 43, 230-243
- 111 Pharyngeal pumping and tissue-specific transgenic P-glycoprotein expression influence macrocyclic lactone susceptibility in *Caenorhabditis elegans*.

110	Permeability of rhynchophylline across human intestinal cell in vitro. 2014 , 7, 1957-66	11
109	ABCB1 transporter and Toll-like receptor 4 in trabecular meshwork cells. 2015 , 21, 201-12	11
108	[Antibiotic diffusion to central nervous system]. 2018 , 31, 1-12	2
107	Glbratephrin reverses doxorubicin resistance in triple negative breast cancer by inhibiting P-glycoprotein. 2021 , 175, 105975	3
106	Structure of ABCB1/P-Glycoprotein in the Presence of the CFTR Potentiator Ivacaftor.. 2021 , 11,	1
105	Cytotoxicity of synthetic derivatives against breast cancer and multi-drug resistant breast cancer cell lines: a literature-based perspective study. 2021 , 21, 612	3
104	Regulation of Biological Functions at the Cell Interface by DNA Nanostructures. 2100126	
103	Molecular basis for stereoselective transport of fenoterol by the organic cation transporters 1 and 2.. 2021 , 197, 114871	0
102	Permeability. 2022 , 51-72	
101	Evaluation of the effect of isobutyl paraben and 2-ethyl hexyl paraben on p-glycoprotein functional expression in rats: a pharmacokinetic study.. 2022 ,	
100	Enhanced Intracellular Reactive Oxygen Species by Photodynamic Therapy Effectively Promotes Chemoresistant Cell Death.. 2022 , 18, 374-385	1
99	Can two wrongs make a right? F508del-CFTR ion channel rescue by second-site mutations in its transmembrane domains.. 2022 , 101615	0
98	Substrate-bound and substrate-free outward-facing structures of a multidrug ABC exporter.. 2022 , 8, eabg9215	4
97	Dependence of ABCB1 transporter expression and function on distinct sphingolipids generated by ceramide synthases-2 and -6 in chemoresistant renal cancer.. 2021 , 101492	1
96	Frozen motion: how cryo-EM changes the way we look at ABC transporters.. 2021 ,	1
95	Study of Allosteric Transitions of Human P-Glycoprotein by Using the Two-State Anisotropic Network Model.. 2022 , 9, 815355	
94	Effects of Polyphenols on P-Glycoprotein (ABCB1) Activity.. 2021 , 13,	2
93	Extended-ensemble docking to probe dynamic variation of ligand binding sites during large-scale structural changes of proteins.. 2022 , 13, 4150-4169	3

92	The Application of in silico Methods for Prediction of Blood-Brain Barrier Permeability of Small Molecule PET Tracers. 2022 , 2,	0
91	Chalcone Derivatives as Potential Inhibitors of P-Glycoprotein and NorA: An and Study.. 2022 , 2022, 9982453	0
90	Detoxification strategies of triptolide based on drug combinations and targeted delivery methods.. 2022 , 469, 153134	1
89	THE P-GLYCOPROTEIN MULTIDRUG TRANSPORTER. 2022 , 199-211	0
88	Preclinical studies of the triazolo[1,5-a]pyrimidine derivative WS-716 as a highly potent, specific and orally active P-glycoprotein (P-gp) inhibitor. 2022 ,	1
87	TRANSPORTERS-MEDIATED DRUG DISPOSITIONPHYSIOCHEMISTRY AND IN SILICO APPROACHES. 2022 , 433-452	
86	Long Range Communication between the Drug-Binding Sites and Nucleotide Binding Domains of the Efflux Transporter ABCB1.. 2022 , 61, 730-740	4
85	Structural insights into the catalytic cycle of a bacterial multidrug ABC efflux pump.. 2022 , 167541	2
84	Development of oxoisoaporphine derivatives with topoisomerase I inhibition and reversal of multidrug resistance in breast cancer MCF-7/ADR cells.. 2022 , 235, 114300	0
83	MicroRNAs in Pancreatic Cancer and Chemoresistance.. 2021 , 50, 1334-1342	
82	Structure-Function Relationships in the Human P-Glycoprotein (ABCB1): Insights from Molecular Dynamics Simulations.. 2021 , 23,	2
81	A Comprehensive Analysis of Prediction of P-Glycoprotein in Tumour Cells, Breast Cancer and Ovarian Cancer Using Machine Learning. 2021 ,	
80	Acquired Drug Resistance Enhances Imidazoquinoline Efflux by P-Glycoprotein.. 2021 , 14,	0
79	Prodrugs of E-selectin Antagonists with Enhanced Pharmacokinetic Properties. 2021 ,	
78	Crystal structure of CmABCB1 multi-drug exporter in lipidic mesophase revealed by LCP-SFX.. 2022 , 9, 134-145	0
77	Image_1.pdf. 2018 ,	
76	Table_1.XLSX. 2018 ,	
75	Table_2.XLSX. 2018 ,	

74	Table_3.XLSX. 2018,	
73	Data_Sheet_1.docx. 2019,	
72	Video_1.MPEG. 2019,	
71	DataSheet_1.pdf. 2020,	
70	Image_1.PDF. 2018,	
69	Down-regulation of ABCB1 by Collateral Sensitivity Drugs Reverses Multidrug Resistance and Up-regulates Enolase I.. 2022,	1
68	Mechanism of multimodal substrate translocation in P-glycoprotein.	
67	Novel Dihydropyrimidinone Derivatives as Potential P-Glycoprotein Modulators.	
66	Structure-based alteration of tryptophan residues of the multidrug transporter CmABCB1 to assess substrate binding using fluorescence spectroscopy. 2022, 31,	
65	Manganese-enhanced magnetic resonance imaging method detects age-related impairments in axonal transport in mice and attenuation of the impairments by a microtubule-stabilizing compound. 2022, 1789, 147947	
64	How Fungal Multidrug Transporters Mediate Hyperresistance Through DNA Amplification and Mutation.	1
63	The potential roles of retinoids in combating drug resistance in cancer: implications of ATP-binding cassette (ABC) transporters. 2022, 12,	0
62	ABC Transporters: An Overview. 2022, 1-10	
61	ABC Transporters: P-Glycoprotein. 2022, 33-40	
60	P-glycoprotein: new insights into structure, physiological function, regulation and alterations in disease. 2022, 8, e09777	0
59	Differences in the components of Neolamarckia cadamba from different provenance and the drug resistance reversal activity of characteristic alkaloid. 2022, 186, 115145	
58	Target-Agnostic P-Glycoprotein Assessment Yields Strategies to Evade Efflux, Leading to a BRAF Inhibitor with Intracranial Efficacy. 2022, 144, 12367-12380	0
57	ABC transporters in breast cancer: their roles in multidrug resistance and beyond. 1-21	1

- 56 Vinca alkaloid binding to P-glycoprotein occurs in a processive manner. **2022**, 184005
- 55 Long-range communication between transmembrane- and nucleotide-binding domains does not depend on drug binding to mutant P-glycoprotein.
- 54 Combining empirical knowledge, in silico molecular docking and ADMET profiling to identify therapeutic phytochemicals from *Brucea antidysentrica* for acute myeloid leukemia. **2022**, 17, e0270050 3
- 53 Inhibitory Effect of Dextran Derivatives on Multidrug Resistance-Related Efflux Transporters <i>in Vitro&/i>. **2022**, 45, 1036-1042
- 52 The recent progress of inorganic-based intelligent responsive nanoplatfrom for tumor theranostics. 20220009 1
- 51 TM2, a novel semi-synthetic taxoid, exerts anti-MDR activity in NSCLC by inhibiting P-gp function and stabilizing microtubule polymerization. 0
- 50 The critical role of nanoparticle sizes in the interactions between gold nanoparticles and ABC transporters in zebrafish embryos. **2022**, 251, 106286 0
- 49 Erythrocyte membrane camouflaged siRNA/chemodrugs nanoassemblies for cancer combination therapy. 0
- 48 ATP-Binding Cassette Transporters: Snap-on Complexes?. **2022**, 35-82 0
- 47 Yeast as a tool for membrane protein production and structure determination. 0
- 46 New Jatrophanes from *Euphorbia kansui* as Potential MDR Reversal Agents. 0
- 45 Still rocking in the structural era: a molecular overview of the Small Multidrug Resistance (SMR) transporter family. **2022**, 102482 1
- 44 5-Arylidenerhodanines as P-gp Modulators: An Interesting Effect of the Carboxyl Group on ABCB1 Function in Multidrug-Resistant Cancer Cells. **2022**, 23, 10812 1
- 43 Mechanism of Action of Ribosomally Synthesized and Post-Translationally Modified Peptides. **2022**, 122, 14722-14814 4
- 42 Thiosemicarbazones and selected tyrosine kinase inhibitors synergize in pediatric solid tumors: NDRG1 upregulation and impaired prosurvival signaling in neuroblastoma cells. 13, 0
- 41 The Tetrahydroisoquinoline Scaffold in ABC Transporter Inhibitors that Act as Multidrug Resistance (MDR) Reversers. **2022**, 23, 0
- 40 Short- and long-term single and combined effects of microplastics and chromium on the freshwater water flea *Daphnia magna*. **2022**, 106348 0
- 39 PX478-loaded silk fibroin nanoparticles reverse multidrug resistance by inhibiting the hypoxia-inducible factor. **2022**, 1

- 38 Protein kinases and cross-talk between post-translational modifications in the regulation of drug transporters. MOLPHARM-MR-2022-000604 ○
- 37 Genome-wide functional screening of drug-resistance genes in *Plasmodium falciparum*. **2022**, 13, ○
- 36 Canine and feline P-glycoprotein deficiency: What we know and where we need to go. ○
- 35 Analysis of P-Glycoprotein Transport Cycle Reveals a New Way to Identify Efflux Inhibitors. ○
- 34 Gastrointestinal Bleeding Due to NOACs Use: Exploring the Molecular Mechanisms. **2022**, 23, 13955 ○
- 33 Polymeric Nanoparticles to Target Glioblastoma Tumors. **2022**, 329-349 ○
- 32 C-subfamily ATP Binding Cassette Transporters Extrude the Calcium Fluorescent Probe Fluo-4 from a Cone Photoreceptor Cell Line. ○
- 31 Deep mutational scan of a drug efflux pump reveals its structurefunction landscape. ○
- 30 Structural and functional characteristics of the tripartite ABC transporter. **2022**, 168, ○
- 29 Recent Advances on P-Glycoprotein (ABCB1) Transporter Modelling with In Silico Methods. **2022**, 23, 14804 ○
- 28 Deep dive into a drug pump. ○
- 27 In silico activity and ADMET profiling of phytochemicals from Ethiopian indigenous aloes using pharmacophore models. **2022**, 12, ○
- 26 Mechanistic implications of the interaction of the soluble substrate-binding protein with a type II ABC importer. ○
- 25 Synergistic Effects of Ginsenoside Rb3 and Ferruginol in Ischemia-Induced Myocardial Infarction. **2022**, 23, 15935 ○
- 24 Unraveling cellular and molecular mechanisms of acid stress tolerance and resistance in marine species: New frontiers in the study of adaptation to ocean acidification. **2022**, 185, 114365 ○
- 23 Realtime observation of ATP-driven single B12molecule translocation through BtuCD-F. ○
- 22 Interaction of a Homologous Series of Amphiphiles with P-glycoprotein in a Membrane Environment: Contributions of Polar and Non-Polar Interactions. **2023**, 15, 174 1
- 21 Relaciones de estructura-funci3n en la P-glicoprote3n humana (ABCB1): Perspectivas de las simulaciones de din3mica molecular. **2022**, 2, 185-206 ○

20	Discovery of benzochromene derivatives first example with dual cytotoxic activity against the resistant cancer cell MCF-7/ADR and inhibitory effect of the P-glycoprotein expression levels. 2023 , 38,	1
19	ATP-binding cassette efflux transporters and MDR in cancer. 2023 , 28, 103537	1
18	Participation of ABC-transporters in lipid metabolism and pathogenesis of atherosclerosis. 2020 , 15, 22-28	0
17	Recent Advances in Supramolecular-Macrocyclic-Based Nanomaterials in Cancer Treatment. 2023 , 28, 1241	0
16	Modular Biomimetic Strategy Enabled Discovery of Simplified Pseudo-Natural Macrocyclic P-Glycoprotein Inhibitors Capable of Overcoming Multidrug Resistance. 2023 , 66, 2550-2565	0
15	Structure and Mechanism of Human ABC Transporters. 2023 , 52,	0
14	The Role of Advanced Therapeutic Techniques to Combat Multi-drug Resistance. 2023 , 29-55	0
13	Lipid environment determines the drug-stimulated ATPase activity of P-glycoprotein. 10,	0
12	C-subfamily ATP binding cassette transporters extrude the calcium fluorescent probe fluo-4 from a cone photoreceptor cell line.	0
11	Non-Nutritive Sweeteners Acesulfame Potassium and Sucralose Are Competitive Inhibitors of the Human P-glycoprotein/Multidrug Resistance Protein 1 (PGP/MDR1). 2023 , 15, 1118	0
10	Long-range communication between transmembrane- and nucleotide-binding domains does not depend on drug binding to mutant P-glycoprotein. 1-10	0
9	The Molecular Mechanisms of Oleanane Aldehyde-Ketone Cytotoxicity against Doxorubicin-Resistant Cancer Cells. 2023 , 12, 415	0
8	Evidence of potential pro-haemorrhagic drug interactions between CYP3A4 inhibitors and direct oral anticoagulants: Analysis of the FAERS database.	0
7	Probing the Allosteric Modulation of P-Glycoprotein: A Medicinal Chemistry Approach Toward the Identification of Noncompetitive P-Gp Inhibitors. 2023 , 8, 11281-11287	0
6	Development of a Novel Tool to Demystify Drug Distribution at Tissue-Blood Barriers.	0
5	ABC Transporters in Bacterial Nanomachineries. 2023 , 24, 6227	0
4	Docosahexaenoic Acid, a Key Compound for Enhancing Sensitization to Drug in Doxorubicin-Resistant MCF-7 Cell Line. 2023 , 15, 1658	0
3	Ligand Partition to the Lipid Bilayer Should Be Accounted for When Estimating Their Affinity to Proteins. 2023 , 28, 3136	0

- 2 AFM kymographs can provide robust conformational transition detection for pharmaceutically relevant membrane proteins in lipid bilayers. ○
- 1 Pomiferin targets SERCA, mTOR, and P-gp to induce autophagic cell death in apoptosis-resistant cancer cells, and reverses the MDR phenotype in cisplatin-resistant tumors in vivo. **2023**, 106769 ○