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Basolateral and apical ABC transporters in liver and intestine

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Abbreviations

2-AAF	2-acetylaminofluorene
ABC	ATP-binding cassette
ABCB1	ATP-binding cassette sub-family B member 1 also called P-glycoprotein
ABCB4	ATP-binding cassette sub-family B member 4 also called multidrug resistance protein 3
ABCB11	ATP-binding cassette sub-family B member 11 also called bile salt export pump or sister of P-glycoprotein
ABCC1	ATP-binding cassette sub-family C member 1 also called multidrug resistance-associated protein 1
ABCC2	ATP-binding cassette sub-family C member 2 also called canalicular multispecific organic anion transporter 1 or multidrug resistance-associated protein 2
ABCC3	ATP-binding cassette sub-family C member 3 also called canalicular multispecific organic anion transporter 2 or multidrug resistance-associated protein 3
ABCC4	ATP-binding cassette sub-family C member 4 also called multidrug resistance-associated protein 4 or multi-specific organic anion transporter B
ABCC5	ATP-binding cassette sub-family C member 5 also called multidrug resistance-associated protein 5
ABCC6	ATP-binding cassette sub-family C member 6 also called multidrug resistance-associated protein 6 or multi-specific organic anion transporter E
ABCG2	ATP-binding cassette sub-family G member 2
ABCG5	ATP-binding cassette sub-family G member 5
ABCG8	ATP-binding cassette sub-family G member 8
Alaninyl-d4TMP	alaninyl-2,3-didehydro-2,3-dideoxythymidine 5-monophosphate
APAP	acetaminophen
ASBT	apical sodium-dependent bile salt transporter (SLC10A2)
ATP	adenosine triphosphate
ATP8B1	phosphatidylserine flippase
BQ-123	2-[(3 <i>R</i> ,6 <i>R</i> ,9 <i>S</i> ,12 <i>R</i> ,15 <i>S</i>)-6-(1 <i>H</i> -indol-3-ylmethyl)-9-(2-methylpropyl)-2,5,8,11,14-pentaoxo-12-propan-2-yl-1,4,7,10,13-pentazabicyclo[13.3.0]octadecan-3-yl]acetic acid
BRIC	benign recurrent intrahepatic cholestasis
BS	bile salt
BSEP	bile salt export pump
BSO	buthionine sulfoximine
CA	cholic acid
cAMP	cyclic adenosine monophosphate
CAR	constitutive androstane receptor
CDC	chenodeoxycholic acid
CDCA	chenodeoxycholic acid
CEF	5-fluorouracil, cisplatin and epirubicin
CLF	choly-L-lysyl-fluorescein
cGMP	cyclic guanosine monophosphate
CYP	cytochrome P450
DBSP	dibromosulfophtalein
DCA	deoxycholic acid
DNA	deoxyribose nucleic acid
DNP-SG	glutathione conjugate of 1-chloro-1,4-dinitrobenzene
6-EDCA	6-ethyl chenodeoxycholic acid
E ₂ 17βG	17β-estradiol-D-17β-glucuronide
EHBR	Esai hyperbilirubinemic rat (Sprague-Dawley)
E ₁ S	estrone-1-sulfate
E ₃ S	estrone-3-sulfate
E3040G	E3040 glucuronide
E3040S	E3040 sulfate
FAM	5-fluorouracil, doxorubicin and mitomycin
5-FdUMP	5-fluoro-2'-deoxyuridine-5'-monophosphate
5-FU	5-fluorouracil
FXR	farnesoid X receptor (NR1H4)
GSH	reduced glutathione
GSSG	oxidized glutathione
HIV	human immunodeficiency virus
HPLC	high performance liquid chromatography
ICG	indocyanine green
ICP	intrahepatic cholestasis of pregnancy

IR-1	inverted repeat-1
LRH	liver receptor homolog
LTC4	leukotriene C4
LXR	liver X receptor
MCA	muricholic acid
MDR	multidrug resistance
6-MP	6-mercaptopurine
MRP2	see ABCC2
MRP3	see ABCC3
4-MUG	4-methylumbelliferone-glucuronide
4-MUS	4-methylumbelliferone-sulfate
NPC1L1	Niemann-Pick C1 like 1
NTCP	Na ⁺ -taurocholate cotransporting polypeptide (SLC10A1)
OAT	organic anion transporter
OATP	organic anion transporting polypeptide
OCT	organic cation transporter
OST α	organic solute transporter α
OST β	organic solute transporter β
PB	phenobarbital
PBC	primary biliary cirrhosis
PC	phosphatidylcholine
PCN	16 α -carbonitrile
PepT1	peptide transporter 1
PFIC	progressive familial intrahepatic cholestasis
PGE ₂	prostaglandin E ₂
PhIP	2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine
PMEA	9-(2-phosphonylmethoxyethyl)adenine
PXE	pseudoxanthoma elasticum
RAR	retinoic acid receptor
RXR	retinoid X receptor
RXR α	9-cis-retinoic acid receptor α
<i>Sf</i>	<i>Spodoptera Frugiperda</i>
SGLT	Na ⁺ /glucose cotransporter
SHP	short heterodimer partner (NR0B2)
TCPOBOP	1,4-bis[2-(3,5-dichloropyridyloxy)]benzene
TDC	taurodeoxycholic acid
TLC-S	tauroolithocholate-sulfate
TMD	transmembrane domain
TR ⁻	transport deficient rat (Wistar)
TUDC	tauroursodeoxycholic acid
UDP	uridine 5-diphosphate
UGT	uridine 5-diphosphate-glucuronosyltransferase
VDR	vitamin D receptor