

DRUG METABOLISM - CONDITIONS AND PHARMACEUTICAL LIST

	CLASS	DRUG	BRAND EXAMPLE	GENES
CARDIOLOGY	ANTIARRHYTHMICS	DIGOXIN	LANOXIN®, DIGITEK®	ABCB1
		FLECAINIDE	TAMBACOR™	CYP2D6
		PROPAFENONE	RYTHMOL SR®	CYP2D6
	ANTICOAGULANTS	WARFARIN	COUMADIN®	CYP2C9, VKORC1
	ANTIIDIABETICS	REPAGLINIDE	PRANDIN®	SLC01B1
		TOLBUTAMIDE	ORINASE®	CYP2C9
	ANTIHYPERTENSIVES	ATENOLOL	TENORMIN®	AGT, CACNA1C, EDN1, GNB3, LDLR, NR1H3
		BENAZEPRIL	LOTENSIN®	AGT
		ENALAPRIL	VASOTEC®, EPANED™	CES1
		IMIDAPRIL	TANATRIL®	AGT
		IRBESARTAN	AVAPRO®	AGT, EDN1
		LOSARTAN	COZAAR®, HYZAAR®	CYP2C9
		METOPROLOL	LOPRESSOR®, TOPROL XL®	CYP2D6
		TIMOLOL	TIMOPTIC®, ISTALOL®, BETIMOL®	ADRB1
		VERAPAMIL	COVERA®, CALAN®, VERELAN®	CACN1C, KCNIP1, NR1H3
	PLATELET AGGREGATION INHIBITORS	CLOPIDOGREL	PLAVIX®	ABCB1, CES1, CYP1A2, CYP2C19, ABCB1, CYP3A4
	STATINS	ATORVASTATIN	LIPITOR®	ABCB1, ABCG2, CYP3A5, RYR1, SLC01B1, ABCB1, CYP3A5
		FLUVASTATIN	LESCOL®	ABCG2, CYP3A5, RYR1, SLC01B1
		LOVASTATIN	ALTOPREV®, MEVACOR®	CYP3A5, RYR1
		PRAVASTATIN	PRAVACHOL®	ABCB1, CYP3A5, MTHR, RYR1, SLC01B1
ROSUVASTATIN		CRESTOR®	ABCG2, CYP3A5, RYR1, SLC01B1	
SIMVASTATIN		ZOCOR®, SIMCOR®	ABCB1, ABCG2, CYP3A5, RYR1, SLC01B1	
THROMBOPHILIAS	THROMBOPHILIA		F2, F5	
ONCOLOGY	CHEMOTHERAPEUTICS	CAPECITABINE	XELODA®	DPYD, MTHR
		CISPLATIN	PLATINOL	MTHR, TPMT
		CYCLOPHOSPHAMIDE	CYTOXAN®	MTHR
		FLUORURACIL	EFUDEX®	ABCB1, DPYD, MTHR
		LEUCOVORIN	FUSILEV®	MTHR
		MERCAPTOPYRINE	PURINETHOL®	MTHR, TPMT
		METHOTREXATE	TREXAL®	ABCB1, MTHR, SLC01B1
		OXALIPLATIN	ELOXATIN®	DPYD, MTHR
		PACLITAXEL	ABRAXANE®, TAXOL®, ONXOL®	ABCB1, CYP3A4
		TAMOXIFEN	NOLVADEX®, SOLTAMOX®	CYP2D6
		TEGAFUR		DPYD
	THIOGUANINE	TABLOID®	TPMT	
	CORTICOSTEROIDS	PREDNISONE	DELTASONE®, STERAPRED®	ABCB1
PAIN	BENZODIAZEPINES	DIAZEPAM	VALIUM®	CYP2C19
	GENERAL ANESTHETICS	DESFLURANE	SUPRANE®	RYR1
		ISOFLURANE	FORANE®	RYR1
		NITROUS OXIDE	NITRONOX®	MTHR
		SEVOFLURANE	ULTANE®, SOJOURN®	RYR1
		SUCCINYLCHOLINE	ANECTINE®, QUELICIN®	RYR1
	MUSCLE RELAXANTS	CARISOPRODOL	SOMA®	CYP2C19
	NSAIDs	CELECOXIB	CELEBREX®	AGT, CYP2C9
		DICLOFENAC	VOLTAREN®, CATAFLAM®	AGT, CYP2C9
	OPIOIDS	CODEINE	TYLENOL® #3	CYP2D6
		HYDROCODONE	LORTAB®, VICODIN®	CYP2D6
OXYCODONE		OXYCONTIN®, PERCOCET®	CYP2D6	
TRAMADOL		ULTRAM®	CYP2D6	
MENTAL HEALTH	ANTIDEPRESSANTS	AMITRIPTYLINE	ELAVIL®	ABCB1, CYP2D6, CYP2C19
		CITALOPRAM	CELEXA®	ABCB1, CYP2C19, HTR2A, GRIK4
		CLOMIPRAMINE	ANAFRANIL®	CYP2D6, CYP2C19
		DESIPRAMINE	NORPRAMIN®	CYP2D6, CYP2C19
		DOXEPIN	SINEQUAN®	CYP2D6, CYP2C19
		DULOXETINE	CYMBALTA®	DRD3
		ESCITALOPRAM	LEXAPRO®	CYP1A2, CYP2C19, HTR2A, HTR2C
		IMIPRAMINE	TOFRANIL™	CYP2D6, CYP2C19
		NORTRIPTYLINE	PAMELOR™	ABCB1, CYP2C19, CYP2D6, GNB3
		PAROXETINE	PAXIL®, PEVEVA®	ABCB1, COMT, CYP1A2, CYP2D6, DRD3, HTR1A, HTR2A
		SERTRALINE	ZOLOFT®	CYP2C19, HTR1A
		TRIMIPRAMINE	SURMONTIL®	CYP2D6, CYP2C19
		VENLAFAXINE	EFFEXOR®	ABCB1, COMT, CYP2D6, HTR2A
		ANTIEPILEPTICS	MEPHENYTOIN	MESANTOIN®
	PHENYTOIN		DILANTIN®	ABCB1, CYP2C9
	VALPROIC ACID		DEPAKOTE®, STAVZOR®	CYP2C9
	ANTIPSYCHOTICS	ARIPIRAZOLE	ABILIFY®	DRD2, CYP2D6
		CLOZAPINE	CLOZARIL®, FAZACLO®	COMT, CYP1A2, DRD2, HTR1A, MTHR
		HALOPERIDOL	HALDOL®	COMT, CYP2D6
		OLANZAPINE	ZYPREXA®	ABCB1, CYP1A2, CYP3A5, DRD2, DRD3, GNB3, HTR1A, HTR2A, HTR2C, MTHR, TPMT

	ADHDs	RISPERIDONE	RISPERDAL®	ABCB1, CYP2D6, DRD2, DRD3, HTR1A, HTR2A, HTR2C
		AMPHETAMINE	ALDERALL®	COMT, OPRM1
		ATOMOXETINE	STRATEGA®	CYP2D6, SLC6A2
		CLONIDINE	KAPVAY®	GNB3
		DEXMETHYLPHENIDATE	FOCALIN®	ADRA2A, CES1, COMT, DRD1, DRD3
		DEXTROAMPHETAMINE	DEXEDRINE®	COMT, DRD1
		LISDEXAMFETAMINE	VYVANSE®	COMT
		METHYLPHENIDATE	RITALIN®, CONCERTA®	ADRA2A, CES1, COMT, DRD1, DRD3
OTHER	CFTR	IVACAFTOR	KALYDECO®	CFTR
	HEPATITIS, ANTIVIRALS	PEGINTERFERON-ALFA	PEGASYS®, PEGINTRON®	IFNL3
		RIBAVIRIN	COPEGUS®, REBETOL®	IFNL3
	HIV/AIDS	EFAVIRENZ	SUSTIVA®	ABCB1, CYP3A5
		NELFINAVIR	VIRACEPT®	ABCB1
		NEVIRAPINE	VIRAMUNE®	ABCB1, CYP3A5
	IMMUNOSUPPRESSANTS	AZATHIOPRINE	IMURAN®	TPMT
		CYCLOSPORINE	SANDIMMUNE®	ABCB1, CYP3A5
		MERCAPTOPYRINE	PURINETHOL®	MTHR
		SIROLIMUS	RAPAMUNE®	CYP3A5
		TACROLIMUS	PROGRAF®	CYP3A5
	PROTON PUMP INHIBITORS	LANSOPRAZOLE	PREVACID®	ABCB1, CYP2C19
		OMEPRAZOL	PRILOSEC®	CYP2C19
		PANTOPRAZOLE	PROTONIX®	CYP2C19