

Pharmacogenomics (PGx) Associated Medications

Medication Use For	Generic Name	Associated Genes	Medication Use For	Generic Name	Associated Genes
Cancer	capecitabine	DPYD	Pain - opioids	codeine	CYP2D6
	fluorouracil	DPYD		hydrocodone	CYP2D6
	mercaptopurine	NUDT15, TPMT		tramadol	CYP2D6
	thioguanine	NUDT15, TPMT	Antiplatelet	clopidogrel	CYP2C19
	tamoxifen	CYP2D6	Blood thinner	warfarin	VKORC1, CYP2C9, CYP4F2
Nausea	ondansetron	CYP2D6	High cholesterol	atorvastatin	SLCO1B1
Infection	abacavir	HLA-B		fluvastatin	SLCO1B1
	atazanavir	UGT1A1		lovastatin	SLCO1B1
	peginterferon alfa-2a	IFNL3		pitavastatin	SLCO1B1
	voriconazole	CYP2C19		pravastatin	SLCO1B1
Gout/Kidney stone	allopurinol	HLA-B		simvastatin	SLCO1B1
Immunosuppressant	azathioprine	NUDT15, TPMT	rosuvastatin	SLCO1B1	
	tacrolimus	CYP3A5	Anxiety Depression Nerve pain	amitriptyline	CYP2C19, CYP2D6
Anti-seizure	carbamazepine	HLA-A, HLA-B		clomipramine	CYP2C19, CYP2D6
	fosphenytoin	HLA-B, CYP2C9		desipramine	CYP2C19, CYP2D6
	oxcarbazepine	HLA-B		doxepin	CYP2C19, CYP2D6
	phenytoin	HLA-B, CYP2C9		imipramine	CYP2C19, CYP2D6
	Heartburn	dexlansoprazole		CYP2C19	nortriptyline
lansoprazole		CYP2C19		trimipramine	CYP2C19, CYP2D6
omeprazole		CYP2C19		citalopram	CYP2C19
pantoprazole		CYP2C19		escitalopram	CYP2C19
Anti-inflammatory (non-steroidal)	celecoxib	CYP2C9		fluvoxamine	CYP2D6
	ibuprofen	CYP2C9		paroxetine	CYP2D6
	meloxicam	CYP2C9		sertraline	CYP2B6, CYP2C19
	piroxicam	CYP2C9		vortioxetine	CYP2D6
	flurbiprofen	CYP2C9	venlafaxine	CYP2D6	
			ADHD	atomoxetine	CYP2D6

Pharmacogenomics (PGx) Associated Medications - categorized by genes

Associated Genes	Generic Name	Therapeutic class	Associated Genes	Generic Name	Therapeutic class	
CYP2B6, CYP2C19	sertraline	Psychiatry	CYP2C9	celecoxib	GI	
CYP2C19	clopidogrel	Cardio		ibuprofen		
	citalopram	Psychiatry		meloxicam		
	escitalopram	GI		piroxicam		
	dexlansoprazole		flurbiprofen			
	lansoprazole		CYP3A5	tacrolimus	Immunosuppressant	
	omeprazole		DPYD	capecitabine	Oncology	
	pantoprazole		fluorouracil			
	voriconazole	Infectious disease	HLA	abacavir	Infectious disease	
CYP2D6	codeine	Pain		allopurinol	Gout	
	hydrocodone			carbamazepine	Anticonvulsant	
	tramadol			oxcarbazepine		
	nortriptyline	TCA	HLA and CYP2C9	fosphenytoin	Anticonvulsant	
	fluvoxamine	Psychiatry		phenytoin		
	paroxetine		IFNL3	peginterferon alfa-2a	Infectious disease	
	vortioxetine		NUDT15, TPMT	mercaptopurine	Oncology	
	venlafaxine			thioguanine		
	atomoxetine			azathioprine	Immunosuppressant	
	tamoxifen		Oncology	SLCO1B1	atorvastatin	Cardiology
ondansetron	fluvastatin					
CYP2C19 and CYP2D6	amitriptyline	TCAs			lovastatin	
	clomipramine				pitavastatin	
	desipramine				pravastatin	
	doxepin				simvastatin	
	imipramine			rosuvastatin		
	trimipramine		UGT1A1	atazanavir	Infectious disease	
		VKORC1, CYP2C9, CYP4F2	warfarin	Cardiology		