

Pharmacogenomic Associations

The myLifeGenome pharmacogenomic report offers valuable insights into how a patient's genetic makeup influences their response to medications which can impact medication efficacy and safety.

myLifeGenome includes a wide range of genes based on PharmCat guidelines: *ABCG2, CACNA1S, CFTR, CYP2B6, CYP2C19, CYP2C9, CYP2D6, CYP3A4, CYP3A5, CYP4F2, DPYD, HLA-A, HLA-B, G6PD, NUDT15, RYR1, SLCO1B1, TPMT, UGT1A1,* and *VKORC1*.

Included Associations

MEDICATION	GENE(S)
Anti-cancer and immune response	
Azathioprine	<i>NUDT15, TPMT</i>
Capecitabine	<i>DPYD</i>
Fluorouracil	<i>DPYD</i>
Irinotecan	<i>UGT1A1</i>
Mercaptopurine	<i>NUDT15, TPMT</i>
Rasburicase	<i>G6PD</i>
Siponimod	<i>CYP2C9</i>
Tacrolimus	<i>CYP3A5</i>
Tegafur	<i>DPYD</i>
Thioguanine	<i>NUDT15, TPMT</i>
Blood and cardiovascular system	
Acenocoumarol	<i>VKORC1</i>

MEDICATION	GENE(S)
Atorvastatin	<i>SLCO1B1</i>
Clopidogrel	<i>CYP2C19</i>
Flecainide	<i>CYP2D6</i>
Fluvastatin	<i>CYP2C9, SLCO1B1</i>
Lovastatin	<i>SLCO1B1</i>
Methylene blue	<i>G6PD</i>
Metoprolol	<i>CYP2D6</i>
Phenprocoumon	<i>VKORC1</i>
Pitavastatin	<i>SLCO1B1</i>
Pravastatin	<i>SLCO1B1</i>
Propafenone	<i>CYP2D6</i>
Rosuvastatin	<i>ABCG2, SLCO1B1</i>
Simvastatin	<i>SLCO1B1</i>
Warfarin	<i>CYP2C9, CYP4F2, VKORC1</i>
Digestive system	
Dexlansoprazole	<i>CYP2C19</i>
Lansoprazole	<i>CYP2C19</i>
Omeprazole	<i>CYP2C19</i>
Ondansetron	<i>CYP2D6</i>
Pantoprazole	<i>CYP2C19</i>
Tropisetron	<i>CYP2D6</i>
Infection control	
Abacavir	<i>HLA-B</i>
Atazanavir	<i>UGT1A1</i>
Dapsone	<i>G6PD</i>
Efavirenz	<i>CYP2B6</i>

MEDICATION	GENE(S)
Flucytosine	<i>DPYD</i>
Nitrofurantoin	<i>G6PD</i>
Primaquine	<i>G6PD</i>
Tafenoquine	<i>G6PD</i>
Voriconazole	<i>CYP2C19</i>
Musculo-skeletal system	
Allopurinol	<i>HLA-B</i>
Celecoxib	<i>CYP2C9</i>
Flurbiprofen	<i>CYP2C9</i>
Ibuprofen	<i>CYP2C9</i>
Lornoxicam	<i>CYP2C9</i>
Meloxicam	<i>CYP2C9</i>
Pegloticase	<i>G6PD</i>
Piroxicam	<i>CYP2C9</i>
Succinylcholine	<i>CACNA1S, RYR1</i>
Tenoxicam	<i>CYP2C9</i>
Nervous system	
Amitriptyline	<i>CYP2C19, CYP2D6</i>
Aripiprazole	<i>CYP2D6</i>
Atomoxetine	<i>CYP2D6</i>
Brexipiprazole	<i>CYP2D6</i>
Citalopram	<i>CYP2C19</i>
Clomipramine	<i>CYP2C19, CYP2D6</i>
Desflurane	<i>CACNA1S</i>
Doxepin	<i>CYP2C19, CYP2D6</i>
Enflurane	<i>RYR1, CACNA1S</i>

MEDICATION	GENE
Escitalopram	<i>CYP2C19</i>
Fluvoxamine	<i>CYP2D6</i>
Fosphenytoin	<i>CYP2C9, HLA-B</i>
Haloperidol	<i>CYP2D6</i>
Halothane	<i>CACNA1S, RYR1</i>
Imipramine	<i>CYP2C19</i>
Isoflurane	<i>CACNA1S, RYR1</i>
Lamotrigine	<i>HLA-B</i>
Methoxyflurane	<i>CACNA1S, RYR1</i>
Oxcarbazepine	<i>HLA-B</i>
Paroxetine	<i>CYP2D6</i>
Phenytoin	<i>CYP2C9, HLA-B</i>
Quetiapine	<i>CYP3A4</i>
Risperidone	<i>CYP2D6</i>
Sertraline	<i>CYP2B6, CYP2C19</i>
Sevoflurane	<i>CACNA1S, RYR1</i>
Tramadol	<i>CYP2D6</i>
Trimipramine	<i>CYP2C19, CYP2D6</i>
Venlafaxine	<i>CYP2D6</i>
Vortioxetine	<i>CYP2D6</i>
Zuclopenthixol	<i>CYP2D6</i>
Other	
Eliglustat	<i>CYP2D6</i>
Toluidine blue	<i>G6PD</i>
Respiratory system	
Ivacaftor	<i>CFTR</i>