

# Comprehensive Pharmacogenetic (PGx) Testing Gene Panel

## Examples of drugs metabolised and genes tested

Medication	Gene(s)
<b>Cardiology</b>	
Carvedilol	CYP2D6
Clopidogrel	CYP2C19
Flecainide	CYP2D6
Metoprolol	CYP2D6
Warfarin	VKORC1, CYP2C9
<b>Lipid Lowering Medication</b>	
Atorvastatin	SLCO1B1, CYP3A4
Fluvastatin	SLCO1B1, CYP2C9
Lovastatin	SLCO1B1
Pitavastatin	SLCO1B1
Pravastatin	SLCO1B1
Rosuvastatin	SLCO1B1
Simvastatin	SLCO1B1
<b>Gastroenterology</b>	
<b>Anti-Emetic</b>	
Metoclopramide	CYP2D6
Ondansetron	CYP2D6
Tropisetron	CYP2D6
<b>Proton Pump Inhibitors</b>	
Esomeprazole	CYP2C19
Lansoprazole	CYP2C19
Omeprazole (Losec)	CYP2C19
Pantoprazole	CYP2C19
Rabeprazole	CYP2C19
<b>Mental Health</b>	
<b>Anti-ADHD</b>	
Atomoxetine	CYP2D6
Dextroamphetamine	CYP2D6
Lisdexamfetamine	CYP2D6
<b>Anti-Depressants (MOAs)</b>	
Moclobemide	CYP2C19
<b>Anti-Depressants (SNRIs)</b>	
Venlafaxine	CYP2D6
<b>Anti-Depressants (SSRIs)</b>	
Citalopram	CYP2C19
Escitalopram	CYP2C19
Fluoxetine (Prozac)	CYP2D6
Fluvoxamine	CYP2D6
Paroxetine	CYP2D6
Sertraline (Zoloft)	CYP2C19

Medication	Gene(s)
<b>Mental Health</b>	
<b>Anti-Depressants (TCAs)</b>	
Amitriptyline	CYP2D6, CYP2C19
Clomipramine	CYP2D6, CYP2C19
Desipramine	CYP2D6, CYP2C19
Dosulepin	CYP2D6, CYP2C19
Doxepin	CYP2D6, CYP2C19
Imipramine	CYP2D6, CYP2C19
Nortriptyline	CYP2D6
Trimipramine	CYP2C19
<b>Anti-Depressants (Other)</b>	
Vortioxetine	CYP2D6
<b>Anti-Psychotics</b>	
Aripiprazole	CYP2D6
Brexpiprazole	CYP2D6
Chlorpromazine	CYP2D6
Haloperidol	CYP2D6
Olanzapine	CYP1A2
Quetiapine	CYP3A4
Risperidone	CYP2D6
Zuclopenthixol	CYP2D6
<b>Benzodiazepines (Anxiolytics)</b>	
Clobazam	CYP2C19
Diazepam (Valium)	CYP2C19

Please note that this is a guide for gene selection. Some specific medications may not be reported if they are listed under a drug class that is metabolised by the relevant gene.

Medication	Gene(s)
<b>Neurology</b>	
<b>Anti-Dementia</b>	
Donepezil	CYP2D6
Galantamine	CYP2D6
<b>Anti-Epileptics</b>	
Phenytoin/ Fosphenytoin	CYP2C9
<b>Multiple Sclerosis</b>	
Siponimod	CYP2C9
<b>Oncology</b>	
Gefitinib	CYP2D6
Tamoxifen	CYP2D6
<b>Organ Transplant</b>	
Tacrolimus	CYP3A5
<b>Pain Management</b>	
<b>NSAIDs</b>	
Celecoxib	CYP2C9
Flurbiprofen	CYP2C9
Ibuprofen	CYP2C9
Piroxicam	CYP2C9
Meloxicam	CYP2C9
<b>Opioids</b>	
Codeine (prodrug)	CYP2D6
Dihydrocodeine	CYP2D6
Tramadol	CYP2D6
<b>Urology</b>	
Darifenacin	CYP2D6
Mirabegron	CYP2D6
Tamsulosin	CYP2D6
Tolterodine	CYP2D6
<b>Anti-Fungal</b>	
Voriconazol	CYP2C19

### About the author:



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