



Multigene Pharmacogenomic Test (DNAdose)

SUBSTRATES

Below is a list of drugs (substrates) that are metabolised by specific CYP450 enzymes.



CYP2C19	CYP2C9	CYP2D6
<p>Proton Pump Inhibitors: esomeprazole lansoprazole omeprazole pantoprazole rabeprazole</p> <p>Anti-epileptics: diazepam phenobarbitone</p> <p>Antidepressants: amitriptyline citalopram clomipramine dothiepin doxepin escitalopram fluvoxamine imipramine moclobemide sertraline trimipramine</p> <p>Others: clobazam clopidogrel cyclophosphamide flunitrazepam gliclazide indomethacin nelfinavir nilutamide phenytoin primidone proguanil propranolol teniposide</p>	<p>NSAIDs: diclofenac ibuprofen indomethacin meloxicam naproxen piroxicam</p> <p>Angiotensin II Blockers: irbesartan losartan</p> <p>Sulfonylureas: glibenclamide gliclazide glimepiride glipizide</p> <p>Others: celecoxib fluoxetine fluvastatin montelukast phenobarbitone phenytoin primidone rosiglitazone warfarin zafrilukast</p>	<p>Antidepressants: amitriptyline clomipramine dothiepin doxepin duloxetine fluoxetine fluvoxamine imipramine mirtazapine nortriptyline paroxetine trimipramine venlafaxine</p> <p>Antipsychotics: aripiprazole chlorpromazine haloperidol risperidone zuclopenthixol</p> <p>Beta Blockers: carvedilol metoprolol propranolol timolol</p> <p>Opioid Analgesics: codeine oxycodone tramadol</p> <p>Others: atomoxetine chlorpheniramine dexamphetamine dextromethorphan flecainide metoclopramide ondansetron perhexiline proguanil promethazine tamoxifen tropisetron</p>

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INHIBITORS

Inhibitors bind to the enzyme and reduce the enzyme activity in metabolising the substrate (drug). A strong inhibitor greatly decreases the amount of drug metabolised. This may lead to an increase in side effects for active drugs and a decrease in effect for pro-drugs. Weak inhibitors have a minimal effect on this process, therefore they are not included in the list below. A list of weak inhibitors and more information can be found at our website: www.genesfx.com

Strong and **moderate** inhibitors are listed below according to the specific enzyme they inhibit.

CYP2C19	CYP2C9	CYP2D6
dothiepin fluconazole fluvoxamine isoniazid modafinil omeprazole ticlopidine voriconazole cimetidine fluoxetine ketoconazole lansoprazole rabeprazole sertraline	fluconazole ibuprofen indomethacin ketoconazole piroxicam sildenafil sulfamethoxazole voriconazole amiodarone fenofibrate fluvastatin losartan omeprazole pantoprazole warfarin zafirlukast	chlorpromazine fluoxetine paroxetine terbinafine amiodarone cimetidine clomipramine diphenhydramine duloxetine haloperidol imipramine ketoconazole metoclopramide promethazine sertraline ticlopidine

INDUCERS

Inducers stimulate the production of an enzyme which increases the rate of metabolism of a drug. Examples of enzyme inducers are listed below.

CYP2C19	CYP2C9	CYP2D6
carbamazepine phenytoin prednisone rifampicin	carbamazepine phenobarbitone phenytoin primidone rifampicin	-



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