

SUBSTRATES

| 1A2 | 2B6 | 2C8 | 2C9 | 2C19 | 2D6 | 2E1 | 3A4,5,7 |
|---|---|---|---|---|---|---|--|
| amitriptyline caffeine clomipramine clozapine cyclobenzaprine estradiol fluvoxamine haloperidol imipramine N-DeMe mexillette naproxen olanzapine ondansetron phenacetin_ acetaminophen→NAPQI propranolol riluzole ropivacaine tacrine theophylline tizanidine verapamil (R)warfarin zileuton zolmitriptan | bupropion cyclophosphamide efavirenz ifosfamide methadone | paclitaxel torsemide amodiaquine cerivastatin repaglinide | NSAIDs: diclofenac ibuprofen lornoxicam meloxicam S-naproxen_Nor piroxicam suprofen Oral Hypoglycemic Agents: tolbutamide glipizide Angiotensin II Blockers: losartan irbesartan Sulfonylureas: glyburide glibenclamide glipizide glimepiride tolbutamide amitriptyline celecoxib fluoxetine fluvastatin glyburide nateglinide phenytoin-4-OH2 rosiglitazone tamoxifen torsemide S-warfarin | Proton Pump Inhibitors: lansoprazole omeprazole pantoprazole rabeprazole Anti-epileptics: diazepam→Nor phenytoin(O) S-mephenytoin phenobarbitone amitriptyline carisoprodol citalopram chloramphenicol clomipramine cyclophosphamide hexobarbital imipramine N-DeMe indomethacin R-mephobarbital moclobemide nelfinavir nilutamide primidone progesterone proguanil propranolol teniposide R-warfarin→8-OH | Beta Blockers: carvedilol S-metoprolol propafenone timolol Antidepressants: amitriptyline clomipramine desipramine imipramine paroxetine Antipsychotics: haloperidol perphenazine risperidone→9OH thioridazine zuclopentixol alprenolol amphetamine aripiprazole atomoxetine bufuralol chlorpheniramine chlorpromazine codeine (→O-desMe) debrisoquine dexfenfluramine dextromethorphan duloxetine encainide flecainide fluoxetine fluvoxamine lidocaine metoclopramide methoxyamphetamine mexillette minaprine nebivolol nortriptyline ondansetron oxycodone perhexiline phenacetin phenformin promethazine propranolol sparteine tamoxifen tramadol venlafaxine | Anesthetics: enflurane halothane isoflurane methoxyflurane sevoflurane acetaminophen→ NAPQI aniline2 benzene chlorzoxazone ethanol N,N-dimethyl formamide theophylline→ 8-OH | Macrolide antibiotics: clarithromycin erythromycin (not 3A5) NOT azithromycin telithromycin Anti-arrhythmics: quinidine→3OH (not 3A5) Benzodiazepines: alprazolam diazepam→3OH midazolam triazolam Immune Modulators: cyclosporine tacrolimus (FK506) HIV Antivirals: indinavir nelfinavir ritonavir saquinavir Prokinetic: cisapride Antihistamines: astemizole chlorpheniramine terfenadine Calcium Channel Blockers: amlodipine diltiazem felodipine lercanidipine nifedipine2 nisoldipine nitrendipine verapamil HMG CoA Reductase Inhibitors: atorvastatin cerivastatin lovastatin NOT pravastatin simvastatin Steroid 6beta-OH: estradiol hydrocortisone progesterone testosterone Miscellaneous: alfentanil aprepitant aripiprazole buspirone cafergot caffeine_TMU cilostazol cocaine codeine- Ndemethylation dapsone dexamethasone dextromethorphan docetaxel domperidone eplerenone fentanyl finasteride gleevec haloperidol irinotecan LAAM lidocaine methadone nateglinide ondansetron pimozide propranolol quetiapine quinine risperidone NOT rosuvastatin salmeterol sildenafil sirolimus tamoxifen taxol terfenadine trazodone vincristine zaleplon ziprasidone zolpidem |

INHIBITORS

| 1A2 | 2B6 | 2C8 | 2C9 | 2C19 | 2D6 | 2E1 | 3A4,5,7 |
|--|-------------------------|---|--|--|---|---|---|
| fluvoxamine ciprofloxacin cimetidine amiodarone fluoroquinolones furafylline interferon methoxsalen mibefradil | thiotepa ticlopidine | gemfibrozil trimethoprim glitazones montelukast quercetin | fluconazole amiodarone fenofibrate fluvastatin fluvoxamine isoniazid tovastatin phenylbutazone probenidic sertraline sulfamethoxazole sulfaphenazole teniposide voriconazole zafirlukast | PPIs: lansoprazole omeprazole pantoprazole rabeprazole chloramphenicol cimetidine felbamate fluoxetine fluvoxamine indomethacin ketoconazole modafinil oxcarbazepine probenidic ticlopidine topiramate | bupropion fluoxetine paroxetine quinidine duloxetine terbinafine amiodarone cimetidine sertraline celecoxib chlorpheniramine chlorpromazine citalopram clemastine clomipramine cocaine diphenhydramine doxepin doxorubicin escitalopram halofantrine histamine H1 receptor antagonists hydroxyzine levomepromazine methadone metoclopramide mibefradil midodrine moclobemide perphenazine ranitidine red-haloperidol ritonavir ticlopidine tripeleminamine | diethyl- dithiocarbamate disulfiram | HIV Antivirals: indinavir nelfinavir ritonavir clarithromycin itraconazole ketoconazole nefazodone saquinavir telithromycin aprepitant erythromycin fluconazole grapefruit juice verapamil diltiazem cimetidine amiodarone NOT azithromycin chloramphenicol ciprofloxacin delavirdine diethyl- dithiocarbamate fluvoxamine gestodene imatinib mibefradil mifepristone norfloxacin norfluoxetine star fruit voriconazole |

INDUCERS

| 1A2 | 2B6 | 2C8 | 2C9 | 2C19 | 2D6 | 2E1 | 3A4,5,7 |
|---|---------------------------|----------|--------------------------|---|---------------------------|----------------------|---|
| broccoli brussel sprouts char-grilled meat insulin methylcholanthrene modafinil nafcillin beta-naphthoflavone omeprazole tobacco | phenobarbital rifampin | rifampin | rifampin secobarbital | carbamazepine norethindrone NOT pentobarbital prednisone rifampin | dexamethasone rifampin | ethanol isoniazid | HIV Antivirals: efavirenz nevirapine barbiturates carbamazepine efavirenz glucocorticoids modafinil nevirapine oxcarbazepine phenobarbital phenytoin pioglitazone rifabutin rifampin St. John's wort troglitazone |



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Cytochrome P450 Drug Interaction Table

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