

**Table S2:** DPWG guidelines (n=90): covering 81 drugs and 16 genes at the time of initial selection (13/02/2017)

1	Abacavir - <i>HLA-B*57:01</i>
2	Contraceptive with ethinylestadiol – <i>F5</i>
3	Zuclopenthixol - <i>CYP2D6</i>
4	Amitriptyline - <i>CYP2D6</i>
5	Clomipramine - <i>CYP2D6</i>
6	Imipramine - <i>CYP2D6</i>
7	Nortriptyline - <i>CYP2D6</i>
8	Venlafaxine - <i>CYP2D6</i>
9	Doxepin - <i>CYP2D6</i>
10	Atorvastatin - <i>SLCO1B1</i>
11	Oxycodone - <i>CYP2D6</i>
12	Tramadol - <i>CYP2D6</i>
13	Codeine - <i>CYP2D6</i>
14	Efavirenz - <i>CYP2B6</i>
15	Flucloxacillin - <i>HLA-B*57:01</i>
16	Fluorouracil/capecitabine - <i>DPYD</i>
17	Azathioprine/mercaptopurine - <i>TPMT</i>
18	Tioguanine - <i>TPMT</i>
19	Tacrolimus - <i>CYP3A5</i>
20	Tegafur - <i>DPYD</i>
21	Metoprolol - <i>CYP2D6</i>
22	Citalopram - <i>CYP2C19</i>
23	Escitalopram - <i>CYP2C19</i>
24	Simvastatin - <i>SLCO1B1</i>
25	Flecainide - <i>CYP2D6</i>
26	Propafenone - <i>CYP2D6</i>
27	Phenytoin - <i>CYP2C9</i>
28	Carbamazepine – <i>HLA-B*15:11</i>
29	Carbamazepine – <i>HLA-A*31:01</i>
30	Carbamazepine – <i>HLA-B*15:11</i>
31	Eliglustat - <i>CYP2D6</i>
32	Voriconazole - <i>CYP2C19</i>
33	Aripiprazole - <i>CYP2D6</i>
34	Haloperidol - <i>CYP2D6</i>
35	Lansoprazole - <i>CYP2C19</i>
36	Omeprazole - <i>CYP2C19</i>
37	Pantoprazole - <i>CYP2C19</i>
38	Irinotecan - <i>UGT1A1</i>
39	Pimozide - <i>CYP2D6</i>
40	Tamoxifen - <i>CYP2D6</i>
41	Acenocoumarol - <i>VKORC1</i>
42	Phenprocoumon - <i>VKORC1</i>

43	Paroxetine - <i>CYP2D6</i>
44	Sertraline - <i>CYP2C19</i>
45	Clopidogrel - <i>CYP2C19</i>
46	Warfarin - <i>CYP2C9</i>
47	Warfarin - <i>VKORC1</i>
48	Atomoxetine - <i>CYP2D6</i>
49	Imipramine - <i>CYP2C19</i>
50	Ribavirin - <i>HLA-B*44</i>
51	Olanzapine - <i>CYP2D6</i>
52	Atenolol - <i>CYP2D6</i>
53	Bisoprolol - <i>CYP2D6</i>
54	Fluphenazine - <i>CYP2D6</i>
55	Quetiapine - <i>CYP2D6</i>
56	Flupentixol - <i>CYP2D6</i>
57	Duloxetine - <i>CYP2D6</i>
58	Prasugrel - <i>CYP2C19</i>
59	Rabeprazole - <i>CYP2C19</i>
60	Glibenclamide - <i>CYP2C9</i>
61	Gliclazide - <i>CYP2C9</i>
62	Glimepiride - <i>CYP2C9</i>
63	Tolbutamide - <i>CYP2C9</i>
64	Fluvoxamine - <i>CYP2C19</i>
65	Mirtazapine - <i>CYP2C19</i>
66	Sertraline - <i>CYP2D6</i>
67	Ticagrelor - <i>CYP2C19</i>
68	Moclobemide - <i>CYP2C19</i>
69	Citalopram/escitalopram - <i>CYP2D6</i>
70	Mirtazapine - <i>CYP2D6</i>
71	Fluvastatin - <i>SLCO1B1</i>
72	Acenocoumarol - <i>CYP2C9</i>
73	Phenprocoumon - <i>CYP2C9</i>
74	Gefitinib - <i>CYP2D6</i>
75	Risperidone - <i>CYP2D6</i>
76	Methotrexate - <i>MTHFR</i>
77	Clozapine - <i>CYP2D6</i>
78	Quetiapine - <i>CYP3A4</i>
79	Fluvoxamine - <i>CYP2D6</i>
80	Fluoxetine - <i>CYP2D6</i>
81	Carvedilol - <i>CYP2D6</i>
82	Amiodaron - <i>CYP2D6</i>
83	Clonidine - <i>CYP2D6</i>
84	Disopyramide - <i>CYP2D6</i>
85	Quinidine - <i>CYP2D6</i>
86	Methylphenidate - <i>CYP2D6</i>

87	Sotalol - <i>CYP2D6</i>
88	Clozapine - <i>CYP1A2</i>
89	Olanzapine - <i>CYP1A2</i>
90	Esomeprazole - <i>CYP2C19</i>