

## Pharmakogenomik

DPYD	- 5-FU ( <b>5-FU – Toxizität</b> )
TPMT	- Thioporine (Thioguanin, Mercaptopurin, Azathioprin) ( <b>Thioporin-Toxizität</b> )
CYP2D6	<ul style="list-style-type: none"> <li>- <b>Antidepressiva</b> (trizyklische Antidepressiva – z.B. Amitriptylin, Clomipramin, Desipramin, Doxepin, Imipramin, Nortriptylin, SNRI – z.B. Venlafaxin, SSRI – z.B. Paroxetin)</li> <li>- <b>Neuroleptika</b> (z.B. Risperidon, Flupentixol)</li> <li>- <b>Beta-Blocker</b> (z.B. Alprenolol, Carvedidol, Metoprolol)</li> <li>- <b>Antiarrhythmika</b> (z.B. Propafenon)</li> <li>- Tamoxifen (zu <b>niedriger Wirkspiegel</b>, keine Umwandlung von Prodrug in Drug)</li> <li>- <b>Tramadol</b></li> <li>- <b>Eliglustat</b></li> </ul>
CYP2C19	<ul style="list-style-type: none"> <li>- <b>Antidepressiva</b> (SSRI – z.B. Citalopram, Escitalopram, Sertralin, trizyklische Antidepressiva – z.B. Amitriptylin)</li> <li>- Clopidogrel (zu <b>niedriger Wirkspiegel</b>, keine Umwandlung von Prodrug in Drug)</li> <li>- <b>Protonenpumpenhemmer</b></li> </ul>
SLCO1B1	- Statine ( <b>Statin Nebenwirkungen</b> )
CYP2C9	- Cumarine
VKORC1	- Cumarine
CYP3A4	<ul style="list-style-type: none"> <li>- Cyclosporin A, Tacrolimus</li> <li>- Amiodaron</li> </ul>

CYP3A5	<ul style="list-style-type: none"> <li>- Cyclosporin A, Tacrolimus</li> <li>- Atazanavir, Clarithromycin (related inhibitor)</li> </ul>
MTHFR	<ul style="list-style-type: none"> <li>- Methotrexat (<b>Methotrexat-Toxizität</b>)</li> </ul>
CYP1A2	<ul style="list-style-type: none"> <li>- <b>Antipsychotika</b> ( z.B. Olanzapin)</li> <li>- <b>Antidepressiva</b> (z.B. Amitriptylin)</li> <li>- <b>Kardiaka</b> (z.B. Carvedidol, Verapamil)</li> </ul>
OPRM1	<ul style="list-style-type: none"> <li>- Opioide (z.B. Morphine, Fentanyl)</li> <li>- Naloxon</li> </ul>
COMT	<ul style="list-style-type: none"> <li>- Opioide, SSRI's, Antipsychotika</li> <li>- Entacapon, Nelfinavir (related inhibitor)</li> </ul>
ABCB1 (MDR1)	<ul style="list-style-type: none"> <li>- Immunsuppressiva</li> <li>- Protease-Inhibitoren</li> <li>- Nevirapin</li> <li>- Ondansentron</li> <li>- Amiodaron (related inhibitor)</li> </ul>