

## Human Drug Metabolism: Phase II Enzymes PCR Array

**Amino Acid Transferases:** AGXT, BAAT, CCBL1, GLYAT.

**Dehydrogenases:** NQO1, NQO2, XDH.

**Epoxidases:** EPHX1, EPHX2.

**Esterases:** CES1, CES2, CES3, CES5A (CES7).

**Glucuronosyltransferases:** DDOST, UGT1A1, UGT1A4, UGT1A9, UGT2A1, UGT2A3, UGT2B10, UGT2B17, UGT2B28, UGT2B4, UGT2B7, UGT3A1, UGT8.

**Glutathione Transferases:** GSTA1, GSTA3, GSTA4, GSTA5 (YC2), GSTK1, GSTM2, GSTM3, GSTM4, GSTM5, GSTO1, GSTO2, GSTP1, GSTT1, HNMT, INMT, MGST1, MGST2, MGST3, PTGES.

**Methyltransferases:** AS3MT, ASMT, COMT, GAMT, GNMT, NNMT, PNMT, TPMT.

**N-Acetyltransferases:** AANAT, ACSL1, ACSL3, ACSL4, ACSM1, ACSM2B, ACSM3, GALNT1, GALNT4, GCNT1, MGAT1, MGAT2, NAT1, NAT2, NAA20 (NAT5), POMGNT1, SAT1, UGCG.

**Sulfotransferases:** CHST7, SULT1A1, SULT1A2, SULT1B1, SULT1C4, SULT1C2, SULT1C3, SULT1E1 (STE), SULT2A1, SULT2B1, SULT4A1, SULT6B1, TST.