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Supplemental Data

Drug Metabolism and Disposition

CYP and non-CYP drug metabolizing enzyme families exhibit differential sensitivities towards pro-inflammatory cytokine modulation

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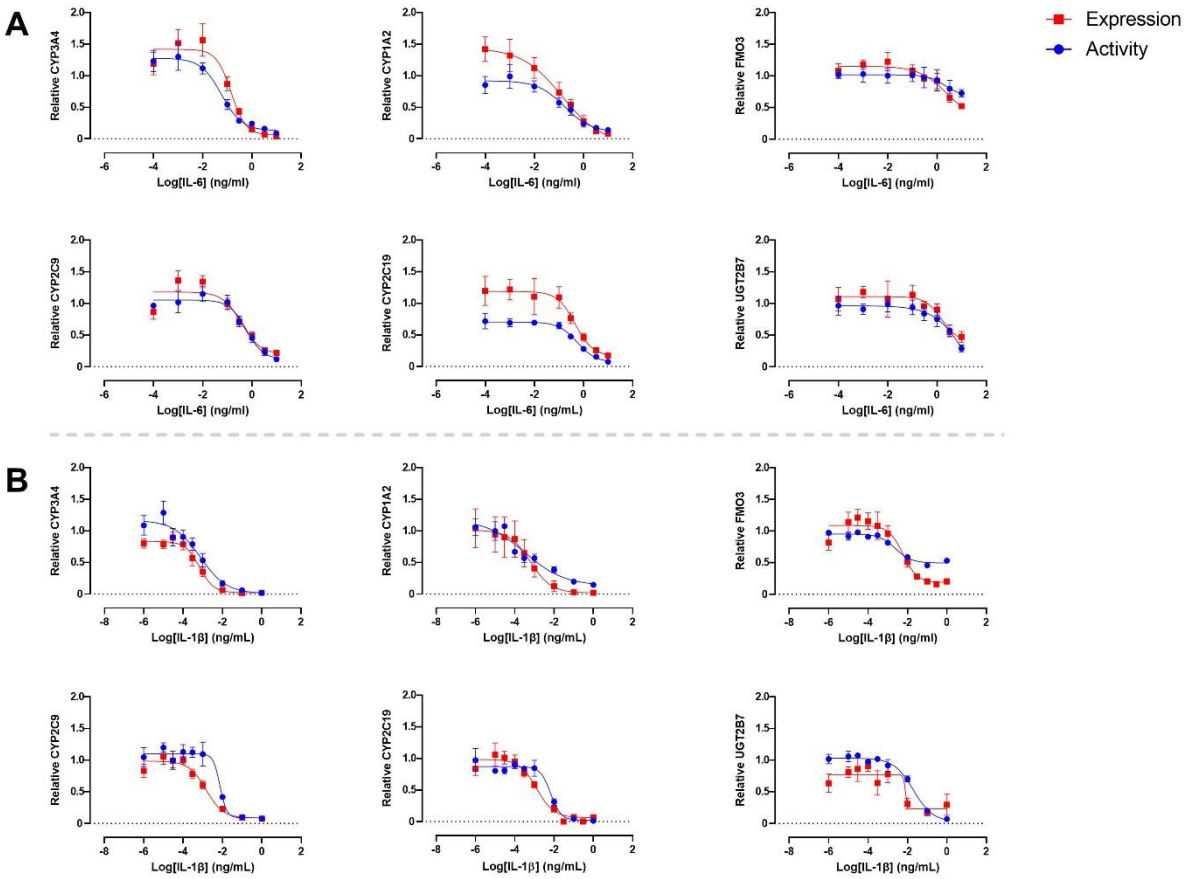

Supplemental Fig. 1. Cytokine concentration-response curves for regulation of CYP3A4, CYP2C9, CYP1A2, CYP2C19, FMO3 and UGT2B7 expression and activity by IL-6 (A) and IL-1β (B). Cells were treated with concentrations of 0.0001 ng/mL to 10 ng/mL (IL-6) or 0.001 pg/mL to 1 ng/mL (IL-1β) for 24 hours to analyze gene expression alterations via RT-qPCR or for 72 hours to analyze activity alterations via probe substrate metabolism with LC-MS/MS. mRNA and activity data are expressed as fold change of levels found in untreated control cells, arbitrarily set to 1.0. Each data point represents the average of at least 4 independent experiments ± SEM. Data was fit to a non-linear regression model in Graphpad Prism.