

SUPPLEMENTARY DATA for “Synergistically enhanced CYP2B6 Inducibility between a Polymorphic Mutation in CYP2B6 Promoter and PXR Activation” by Haishan Li, Stephen S. Ferguson, and Hongbing Wang. *Molecular Pharmacology*

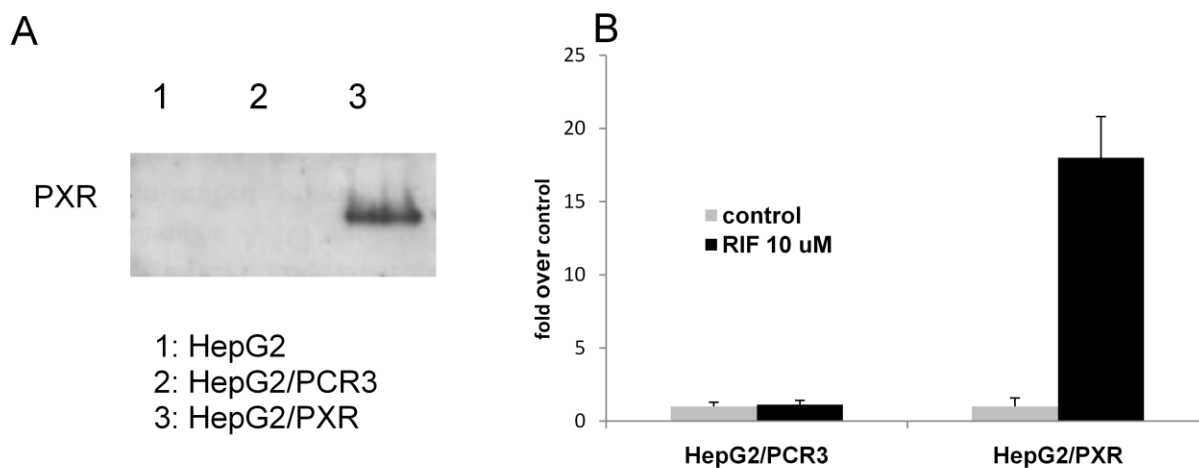


Figure S1 Functional evaluation of HepG2 cell stable line transfected with human PXR expression vector (pCR3-hPXR). *A*, Whole cell homogenates isolated from HepG2 cells (1), HepG2 transfected with empty pCR3 vector (2), and HepG2 cells transfected with pCR3-hPXR (3) were separated on NuPAGE Novex 4–12% Bis-Tris gel and analyzed with PXR immunoblotting. *B*, HepG2/pCR3 and HepG2/hPXR cell lines were transfected with CYP3A4-XREM/PXRE luciferase vector and pRL-TK vector. Twenty-four hours after transfection, cells were treated with vehicle control (0.1% DMSO) or rifampicin (10 μ M). Dual-luciferase activities were measured as described in *Materials and Methods*.

Table S1 Human liver donor information and RIF-mediated induction of CYP2B6 mRNA or bupropion hydroxylation.

Donor number	Age (year)	Sex	Race	Genotype CYP2B6-82	Induction of CYP2B6 (RIF over control)	
					mRNA	Activity (pmol/min/million cells)
HL-1	80	M	Caucasian	TT	10±0.8	N/A
HL-2	48	F	Caucasian	TC	30±2.2	N/A
HL-3	70	F	Caucasian	TT	6±0.6	N/A
HL-4	72	M	Caucasian	TT	3±0.3	N/A
HL-5	50	F	Caucasian	TT	10±1.5	N/A
HL-6	61	M	N/A	TT	6±0.5	N/A
HL-7	45	F	Caucasian	TT	5±0.4	N/A
HL-9	77	F	Caucasian	TT	14±1.5	N/A
HL-10	N/A	N/A	Caucasian	TT	5±1.0	N/A
HL-11	52	F	African-American	TT	6±0.9	N/A
HL-12	55	F	Caucasian	TT	15±2.8	N/A
HL-13	57	F	Caucasian	TT	8±0.7	N/A
HL-14	65	M	African-American	TT	6±1.2	N/A
HL-16	49	F	N/A	TT	6±0.7	N/A
HL-17	70	M	N/A	TT	6±0.4	N/A
Hu-895	69	F	Caucasian	TT	N/A	19.02
Hu-856	66	M	Caucasian	TC	N/A	11.28
Hu-613	69	F	Hispanic	TT	N/A	4.43
Hu-825	55	M	Caucasian	TT	N/A	14.34
Hu-840	66	F	Caucasian	TT	N/A	13.75
Hu-680	41	F	Caucasian	TT	N/A	8.07
Hu-843	53	F	Caucasian	TT	N/A	11.56
Hu-571	47	F	Caucasian	TC	N/A	8.42
Hu-690	31	F	African-American	TT	N/A	32.21
Hu-586	69	F	Caucasian	TT	N/A	8.82
Hu-721	53	F	Caucasian	TT	N/A	10.57
Hu-727	73	F	Caucasian	TT	N/A	15.20
Hu-788	65	F	Caucasian	TC	N/A	24.45
Hu-677	63	F	Caucasian	TT	N/A	18.87
Hu-695	41	F	Caucasian	TT	N/A	24.29
Hu-693	41	M	Caucasian	TT	N/A	5.19
Hu-590	58	M	Caucasian	TT	N/A	5.69
Hu-833	66	M	Caucasian	TT	N/A	5.73
Hu-896	53	F	Caucasian	TT	N/A	4.10
Hu-670	27	F	Hispanic	TT	N/A	5.09
Hu-622	63	F	Caucasian	TT	N/A	4.78
Hu-546	57	F	Caucasian	TT	N/A	6.95
Hu-507	51	M	Caucasian	TT	N/A	2.26
Hu-601	30	F	Caucasian	TT	N/A	3.71
Hu-560	71	F	Caucasian	TT	N/A	3.46
Hu-514	63	M	Hispanic	TT	N/A	6.01
Hu-844	76	F	Caucasian	TT	N/A	5.49
Hu-631	70	M	Caucasian	TT	N/A	4.56
Hu-689	55	F	Caucasian	TT	N/A	8.63

N/A: not available.