

Supplementary Materials: Pharmacogene Variants Associated with Liver Transplant in a Twelve-Year Clinical Follow-Up

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Table S1. Patients' genotype and allele frequencies. Chi-square calculation for Hardy-Weinberg equilibrium comparing the observed vs the expected genotype frequencies was also calculated.

Gene	SNPs	Genotype	Frequency in Re- cipients (%)	Allele frequen- cies	χ^2	Frequency in Donors (%)	Allele fre- quencies	χ^2
ABCB1	rs1045642	CC	22.78	(C) 49.37 [†]	0.40	26.58	(C) 54.43	1.51
		TC	53.16	(T) 50.63		55.70	(T) 45.57 [†]	
		TT	24.05			17.72		
ABCB1	rs1128503	CC	21.52	(C) 52.53	5.94	34.18	(C) 56.96	0.50
		TC	62.03	(T) 47.47 [†]		45.57	(T) 43.04 [†]	
		TT	16.46			20.25		
ABCB1	rs2032582	GG	29.11	(G) 56.96	1.85	39.24	(G) 63.29	0.12
		GT	55.70	(T) 43.04 [†]		48.10	(T) 36.71 [†]	
		TT	15.19			12.66		
ABCB1	rs229109	AA	6.33	(A) 9.49 [†]	39.90	1.27	(A) 4.43 [†]	6.38
		GA	6.33	(G) 90.51		6.33	(G) 95.57	
		GG	87.34			92.41		
ABCB1	rs2235013	AA	17.72	(A) 48.10 [†]	4.71	31.65	(A) 51.90	3.56
		GA	60.76	(G) 51.90		40.51	(G) 48.10 [†]	
		GG	21.52			27.85		
ABCB1	rs2235033	CC	17.72	(C) 48.10 [†]	4.71	32.91	(C) 52.53	4.54
		TC	60.76	(T) 51.90		39.24	(T) 47.47 [†]	
		TT	21.52			27.85		
ABCB1	rs3213619	CC	0.00	(C) 1.27 [†]	0.02	0.00	(C) 3.16 [†]	0.11
		CT	2.53	(T) 98.73		6.33	(T) 96.84	
		TT	97.47			93.67		
ABCB1	rs9282564	AA	91.14	(A) 95.57	0.21	84.81	(A) 91.14	4.68
		AG	8.86	(G) 4.43 [†]		12.66	(G) 8.86 [†]	
		GG	0.00			2.53		
ABCC2	rs3740066	CC	34.18	(C) 58.86	0.04	37.97	(C) 62.66	0.30
		CT	49.37	(T) 41.14 [†]		49.37	(T) 37.34 [†]	
		TT	16.46			12.66		
ABCC2	rs2273697	AA	6.33	(A) 20.25 [†]	1.90	2.53	(A) 19.62 [†]	0.70
		GA	27.85	(G) 79.75		34.18	(G) 80.38	
		GG	65.82			63.29		
ABCC2	rs717620	CC	59.49	(C) 77.85	0.41	63.29	(C) 78.48	1.01
		TC	36.71	(T) 22.15 [†]		30.38	(T) 21.52 [†]	
		TT	3.80			6.33		
ABCG2	rs2231137	AA	0.00	(A) 6.33 [†]	0.46	1.27	(A) 7.59 [†]	0.96
		GA	12.66	(G) 93.67		12.66	(G) 92.41	
		GG	87.34			86.08		
ABCG2	rs2231142	AA	0.00	(A) 6.33 [†]	0.46	1.27	(A) 5.06 [†]	4.41
		CA	12.66	(C) 93.67		7.59	(C) 94.94	
		CC	87.34			91.14		
CYP3A4	rs2740574	AA	97.47	(A) 98.73	0.02	83.54	(A) 91.14	0.35
		GA	2.53	(G) 1.27 [†]		15.19	(G) 8.86 [†]	
		GG	0.00			1.27		
CYP3A5	rs10264272	AA	0.00	(A) 0.00	NA	0	(A) 0.63 [†]	0.00

		AG	0.00	(G) 100		1.27	(G) 99.37	
		GG	100			98.73		
CYP3A5	rs776746	AA	1.27	(A) 8.23 [†]	0.61	1.27	(A) 11.39 [†]	0.00
		GA	13.92	(G) 91.77		20.25	(G) 88.61	
		GG	84.81			78.48		
CYP2B6	rs2279343	AA	45.57	(A) 67.72	0.02	53.16	(A) 72.78	0.01
		GA	44.30	(G) 32.28 [†]		39.24	(G) 27.22 [†]	
		GG	10.13			7.59		
CYP2B6	rs3745274	GG	0.00	(G) 43.67 [†]	60.11	0.00	(G) 40.51 [†]	46.36
		GT	87.34	(T) 56.33		81.01	(T) 59.49	
		TT	12.66			18.99		
CYP2C9	rs1799853	CC	79.75	(C) 89.87	1.27	77.22	(C) 88.61	1.65
		CT	20.25	(T) 10.13 [†]		22.78	(T) 11.39 [†]	
		TT	0.00			0.00		
CYP2C9	rs1057910	AA	92.41	(A) 96.20	0.16	87.34	(A) 91.77	17.08
		CA	7.59	(C) 3.80 [†]		8.86	(C) 8.23 [†]	
		CC	0.00			3.80		
CYP2C19	rs4244285	AA	2.53	(A) 16.46 [†]	0.02	3.80	(A) 13.92 [†]	2.40
		GA	27.85	(G) 83.54		20.25	(G) 86.08	
		GG	69.62			75.95		
MTHFR	rs1801131	AA	49.37	(A) 68.99	0.69	64.56	(A) 81.01	0.49
		CA	39.24	(C) 31.01 [†]		32.91	(C) 18.99 [†]	
		CC	11.39			2.53		
MTHFR	rs1801133	CC	44.30	(C) 65.82	0.19	21.52	(C) 53.80	8.92
		TC	43.04	(T) 34.18 [†]		64.56	(T) 46.20 [†]	
		TT	12.66			13.92		
NOD2	rs2066844	CC	88.61	(C) 94.30	0.36	91.14	(C) 95.57	0.21
		CT	11.39	(T) 5.70 [†]		8.86	(T) 4.43 [†]	
		TT	0.00			0.00		
NOD2	rs2066845	CC	0.00	(C) 1.90 [†]	0.04	0.00	(C) 1.90 [†]	0.04
		CG	3.80	(G) 98.10		3.80	(G) 98.10	
		GG	96.20			96.20		
TPMT	rs1142345	AA	88.61	(A) 94.30	0.36	93.67	(A) 96.84	0.11
		GA	11.39	(G) 5.70 [†]		6.33	(G) 3.16 [†]	
		GG	0.00			0.00		
TPMT	rs1800460	AA	0.00	(A) 5.06 [†]	0.28	0.00	(A) 2.53 [†]	0.07
		GA	10.13	(G) 94.94		5.06	(G) 97.47	
		GG	89.87			94.94		
TPMT	rs1800462	CC	0.00	(C) 1.90 [†]	0.04	0.00	(C) 1.90 [†]	0.04
		GC	3.80	(G) 98.10		3.80	(G) 98.10	
		GG	96.20			96.20		
SLCO1A2	rs11568563	AA	81.01	(A) 90.51	1.10	83.54	(A) 91.77	0.80
		CA	18.99	(C) 9.49 [†]		16.46	(C) 8.23 [†]	
		CC	0.00			0.00		
SLCO1B1	rs2306283	AA	54.43	(A) 70.89	4.11	40.51	(A) 63.92	0.02
		AG	32.91	(G) 29.11 [†]		46.84	(G) 36.08 [†]	
		GG	12.66			12.66		
SLCO1B1	rs4149056	CC	1.27	(C) 13.92 [†]	0.32	3.80	(C) 15.19 [†]	1.34
		TC	25.32	(T) 86.08		22.78	(T) 84.81	
		TT	73.42			73.42		
UGT1A9	rs6714486	AA	0.00	(A) 5.70 [†]	0.36	0.00	(A) 4.43 [†]	0.21
		TA	11.39	(T) 94.30		8.86	(T) 95.57	
		TT	88.61			91.14		
UGT1A9	rs7251330	CC	0.00	(C) 3.80 [†]	0.16	0.00	(C) 4.43 [†]	0.21
		TC	7.59	(T) 96.20		8.86	(T) 95.57	
		TT	92.41			91.14		

[†]MAF (minor allele frequency); χ^2 : chi-square test result (Hardy Weinberg equilibrium while $\chi^2 < 5.99$).