

Genetic Polymorphisms Contribute to the Individual Variations of Imatinib Mesylate Plasma Levels and Adverse Reactions in Chinese GIST Patients

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Table S1. Primers for polymerase chain reaction (PCR).

SNP_ID	Gene	Primers	AMP_LEN (bp)
		(5'-3'; F = forward, R = reverse)	
rs2242480	CYP3A4	F: CAC CCT GAT GTC CAG CAG AAA CT	287
		R: AAT AGA AAG CAG ATG AAC CAG AGC C	
rs1045642	ABCB1	F: TGC TGG TCC TGA AGT TGA TCT GTG AAC	248
		R: ACA TTA GGC AGT GAC TCG ATG AAG GCA	
rs2231137	ABCG2	F: CTC ATC CAT CCT TTT CCT GCT T	483
		R: AGC CAC TCT TCA GTT TTA CTC G	
rs3814055	NR1I2	F: CCC AGC AGT GAG CTG TGT AA	645
		R: AGC TGA GGG CTC TTT CCT CT	
rs6785049	NR1I2	F: GGT TGT GAG GGG AGA GAT GA	526
		R: AGC CAC CTG TGG ATG GTA AC	
rs2276706	NR1I2	F: CCC CTT TTC CTG TGT TTT TG	637
		R: CAA CAT TAA GTG ATT GTT TTC ATG C	

Table S2. Primers for polymerase chain reaction (PCR).

Gene	<i>CYP3A4</i>		<i>ABCB1</i>		<i>ABCG2</i>		<i>NR1I2</i>			
SNP	<i>rs2242480</i>		<i>rs1045642</i>		<i>rs2231137</i>		<i>rs3814055</i> <i>rs6785049</i>		<i>rs2276706</i>	
Pre-denature	94 °C	5 min	94 °C	5 min	95 °C	3 min	94 °C	5 min	94 °C	5 min
Denature	94 °C	30 s	94 °C	30 s	95 °C	30 s	94 °C	30 s	94 °C	30 s
Annealing	62 °C	30 s	60 °C	30 s	58 °C	30 s	58 °C	30 s	58 °C	30 s
Extension	72 °C	1 min	72 °C	1 min	72 °C	50 s	72 °C	1 min	72 °C	1 min
Cycles	30		30		35		30		35	
Extension	72 °C	7 min	72 °C	7 min	72 °C	10 min	72 °C	7 min	72 °C	7 min
Storage	4 °C	∞	4 °C	∞	4 °C	∞	4 °C	∞	4 °C	∞

Table S3. Restriction endonuclease digestion conditions.

Gene	<i>CYP3A4</i>	<i>ABCB1</i>	<i>ABCG2</i>
SNP	<i>rs2242480</i>	<i>rs1045642</i>	<i>rs2231137</i>
Reaction Volume (μL)	20	20	20
Restriction Enzyme (μL)	Rsa I, 1	Mbo I, 0.5	TspR I, 0.5
Rraction Buffer (μL)	10x Buffer Tango, 2 BSA, 2	10× Buffer R, 2	10x Buffer Tango, 2
PCR product (μL)	10	10	10
double-distilled H2O (μL)	5	7.5	7.5
Incubation Temperature (°C)	37	37	37
Incubation Time (h)	3	3	3
Agarose Gel Electrophoresis (%)	2	2	2