



# Genetic polymorphisms of cytochrome P450 enzymes 2C9 and 2C19 in a healthy Mongolian population in China

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**ABSTRACT.** We examined the distribution of major allelic variants of *CYP2C9* and *CYP2C19* in the Mongolian population of China and compared it with that of other populations. The polymorphisms of *CYP2C9* (including the *CYP2C9\*1*, *CYP2C9\*2* and *CYP2C9\*3* alleles) and *CYP2C19* (including the *CYP2C19\*1*, *CYP2C19\*2* and *CYP2C19\*3* alleles) were analyzed in 280 healthy unrelated Chinese Mongolian subjects, using a PCR-RFLP assay. The frequencies of *CYP2C9\*1*, \*2 and \*3 alleles were 0.97, 0.00 and 0.03, respectively. The frequencies of *CYP2C19\*1*, \*2 and \*3 alleles were 0.72, 0.24 and 0.04, respectively. We did not find any differences in the allelic distribution of these two genes between age groups. However, the genotype frequency of *CYP2C9 \*1/\*3* was significantly higher in males than in females. Compared with other populations, we found that the allele frequencies of the *CYP2C9\*2* and *CYP2C9\*3* allelic variants in this Mongolian population of China were similar to those reported

for other Asian populations, with significant differences compared to Caucasians and African-Americans.

**Key words:** CYP2C9; CYP2C19; Mongolian population;  
Genetic polymorphism