Journal of Zhejiang University-SCIENCE B

Cite this as: Kai-fa TANG, Yi-li ZHAO, Shang-shu DING, Qi-fei WU, Xing-yang WANG, Jia-qi SHI, Fa SUN, Jun-ping XING, 2015. Genetic polymorphisms of CYP2D6*10 and the effectiveness of combined tamoxifen citrate and testosterone undecanoate treatment in infertile men with idiopathic oligozoospermia. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, **16**(3):191-197. [doi:10.1631/jzus.B1400191]

Genetic polymorphisms of *CYP2D6*10* and the effectiveness of combined tamoxifen citrate and testosterone undecanoate treatment in infertile men with idiopathic oligozoospermia

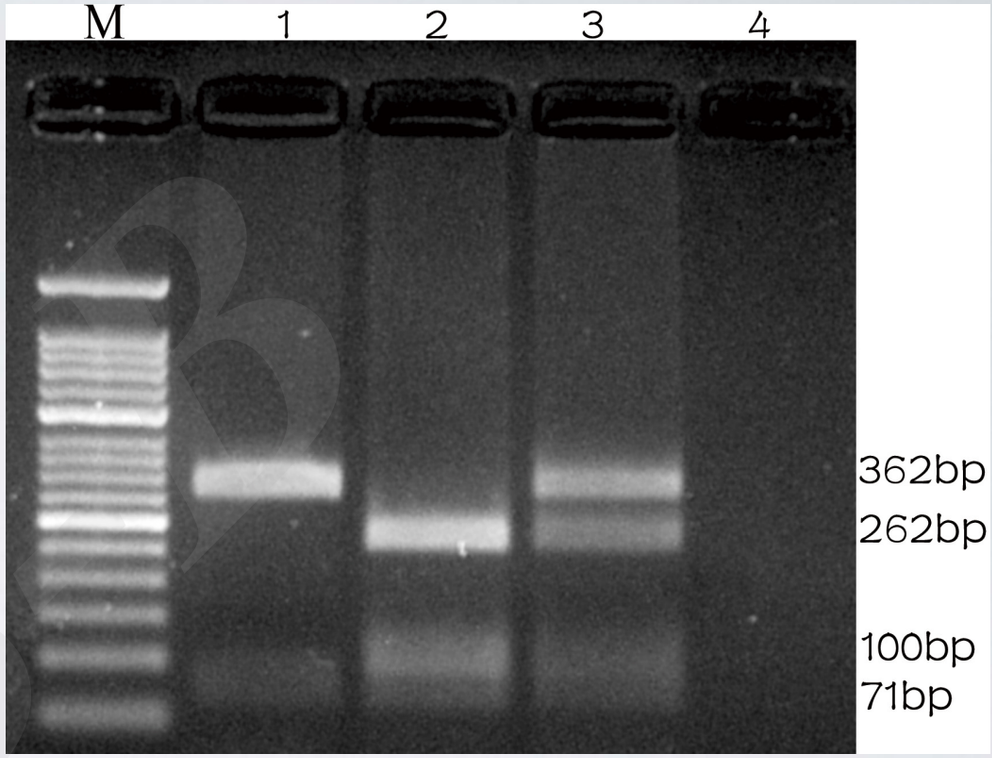
Key words:

Infertility, Cytochrome P450, Oligozoospermia, Tamoxifen, Sex hormone



Materials and methods

- Polymorphisms of CYP2D6 *10 were identified by PCR-RFLP and Patients were treated with tamoxifen citrate and testosterone undecanoate.
- Sex hormone, sperm parameters, and incidence of spontaneous pregnancy were detected.







Results and conclusions

Results

- The sex hormone, sperm concentration, motility, percentage of normal morphology and incidence of spontaneous pregnancy were highest in the CYP2D6*10 C/C group.

Conclusions

- CYP2D6 *10 mutant genotype had a worse clinical outcome in infertile men with idiopathic oligozoospermia treatment combined with tamoxifen citrate and testosterone undecanoate.

