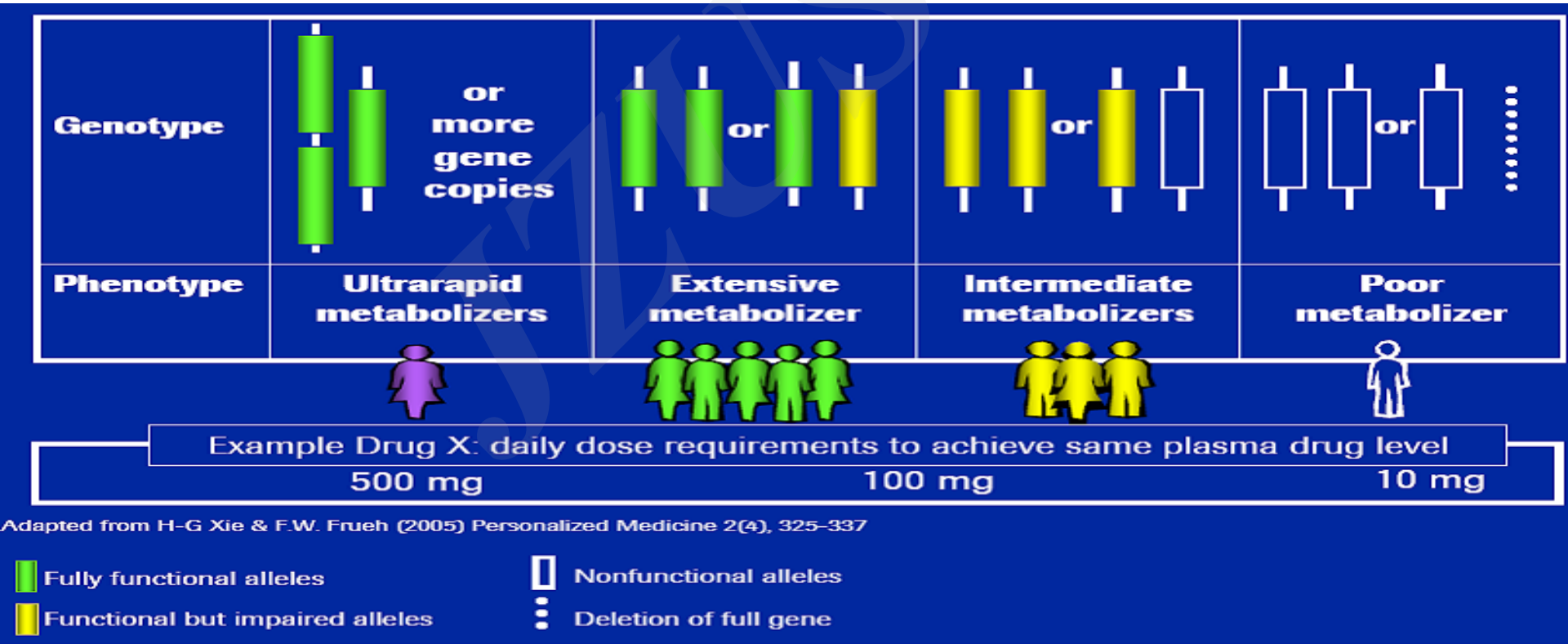
Cite this as: Jing LI, Xin-yue LIU, Lin-jing LI, Chong-ge YOU, Lei SHI, Shang-di ZHANG, Qian LIU, Jun WANG, Ze-jing LIU, Ting-hong LV, 2015. Correlation analysis of gene polymorphisms and β-lactam allergy. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology).* **16**(7):632-639. [doi:10.1631/jzus.B1400309]

Correlation analysis of gene polymorphisms and β-lactam allergy

Key words:
Allergy, β-Lactam, Interleukin (IL), Pharmacogenomics, Single nucleotide polymorphism (SNP)

Research Summary

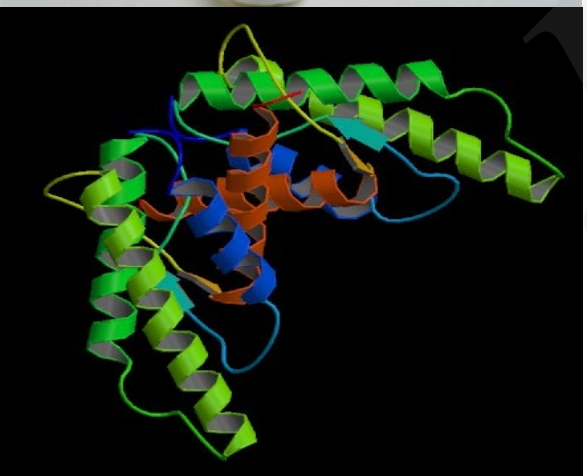
This review mainly focused on the relationship between 10 single nucleotide polymorphisms in interleukin (IL)-10, IL-13, IL-4Rα, Fc-Riβ, IFNGR2, and CYP3A4, and β-lactam allergy within the Han Chinese population of Northwest China.

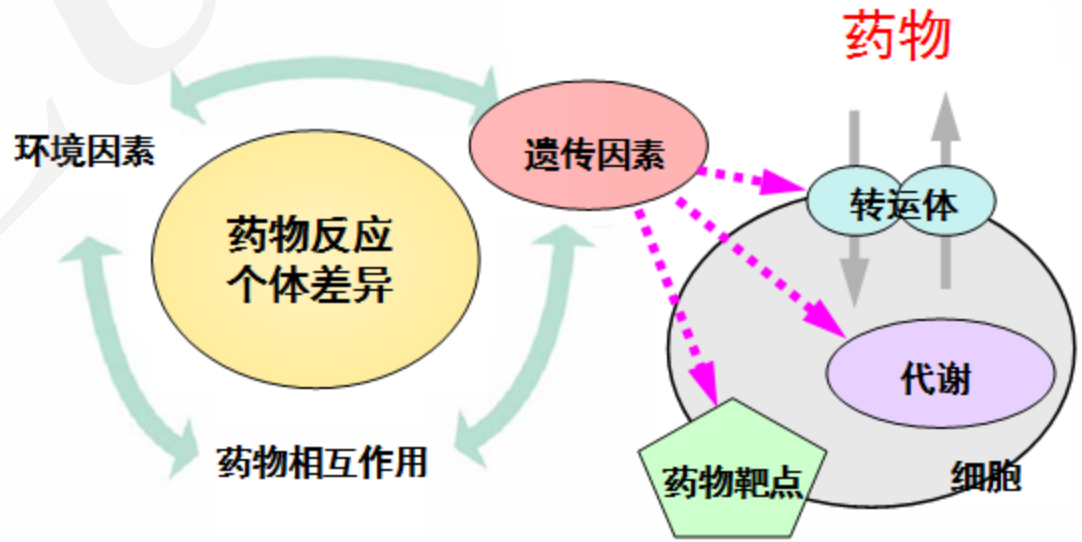


Research Summary

- SNPs associated with β-lactam allergy
- LD analysis
- Haplotype analysis







Conclusions

- **The CYP3A4 rs2242480/CT genotype displayed significant correlation with β-lactam allergy within male subjects drawn from Han Chinese population of Northwest China.**
- **The correlation between CCT and CAC haplotypes of IL-13 and β-lactam allergy needs to be further studied.**