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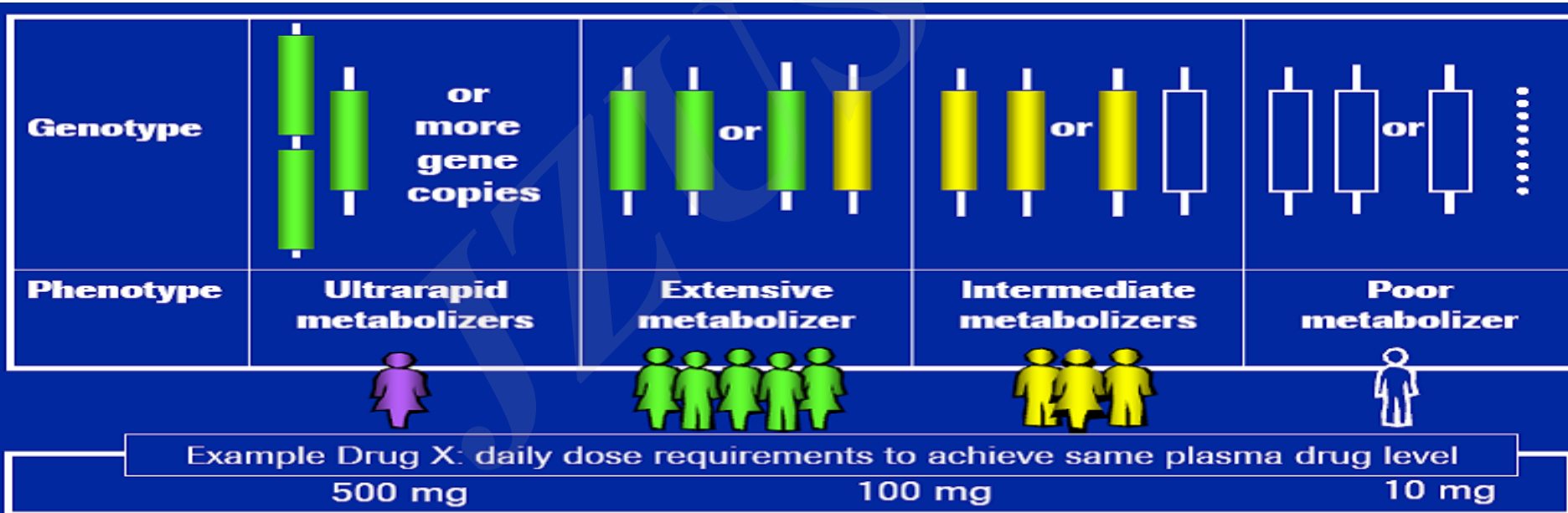
Correlation analysis of gene polymorphisms and β -lactam allergy

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-4R α , Fc-Ri β , IFNGR2, and CYP3A4, and β -lactam allergy within the Han Chinese population of Northwest China.

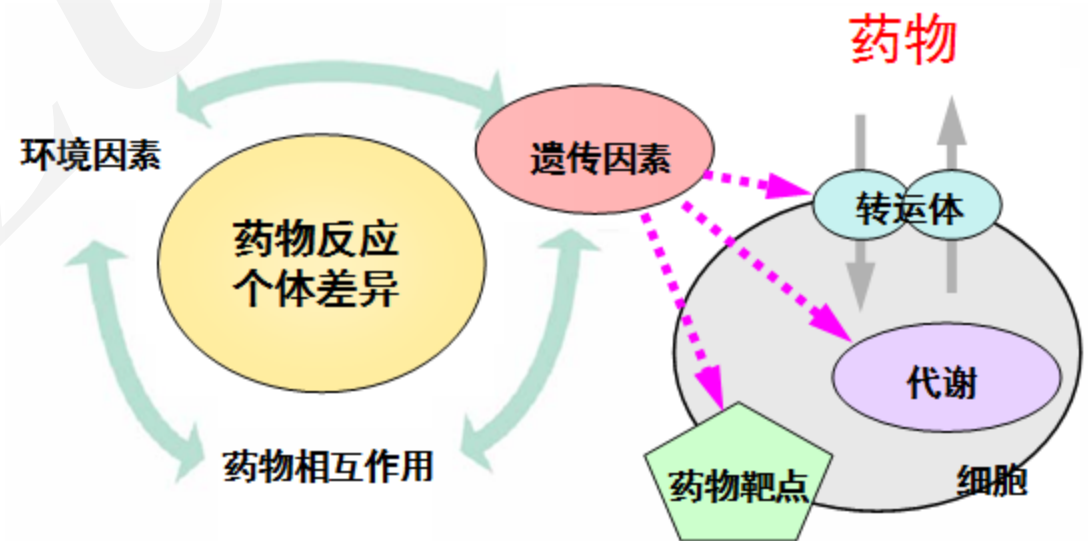
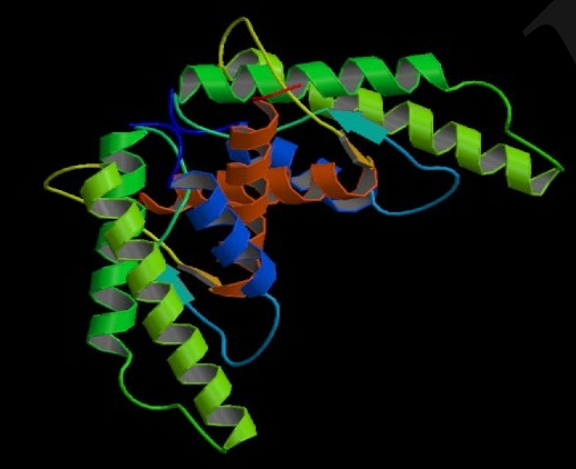


Adapted from H-G Xie & F.W. Frueh (2005) *Personalized Medicine* 2(4), 325-337

- Fully functional alleles
- Functional but impaired alleles
- Nonfunctional alleles
- Deletion of full gene

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.**