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# Identification of *FECH* gene multiple variations in two Chinese patients with erythropoietic protoporphyria and a review

**Key words:** Erythropoietic protoporphyria, Chinese patients, Clinical manifestation, Ferrochelatase, Missense mutations

# Research Summary

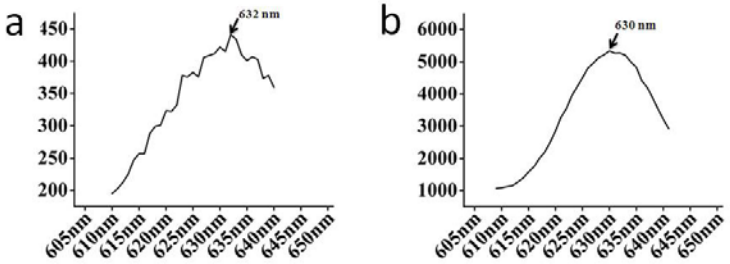
- **In this research, we describe the clinical features of two Chinese patients with EPP, with diagnosis confirmed by the increase of FEP, detection of plasma fluorescence peak at 630-634 nm and analysis of *FECH* gene mutations.**

- **Using gene scanning, we identified a small deletion in the *FECH* gene (c. 973delA) in patient A and a pathogenic *FECH* mutation (c. 1232G>T) in patient B and also observed some nucleotide variations.**

- **The family pedigree of patient A was then established by characterization of the genotype of the patient's relatives.**

# Innovation points

**Describe** the clinical features

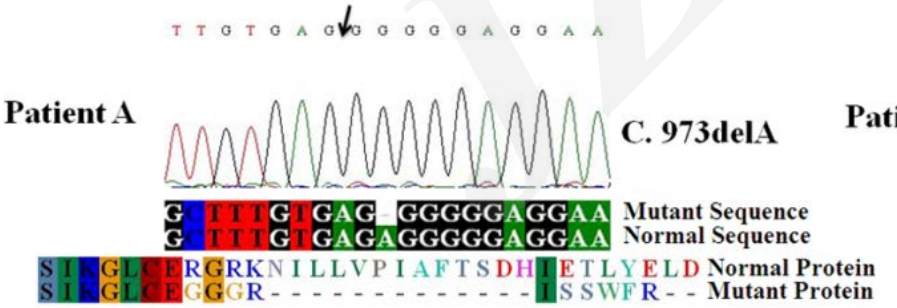


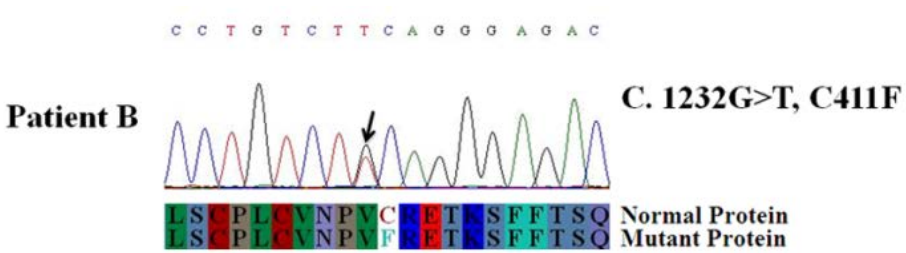

**Plasma fluorescent spectrum assay**




**Chronic skin lesions of the patients**

**Detect** the mutation of *FECH* gene

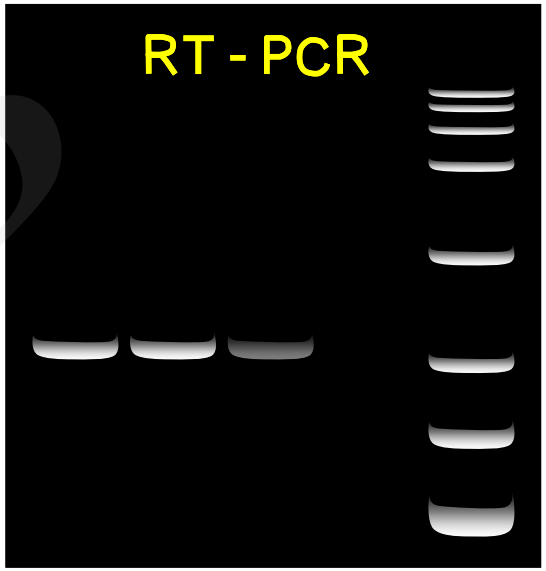


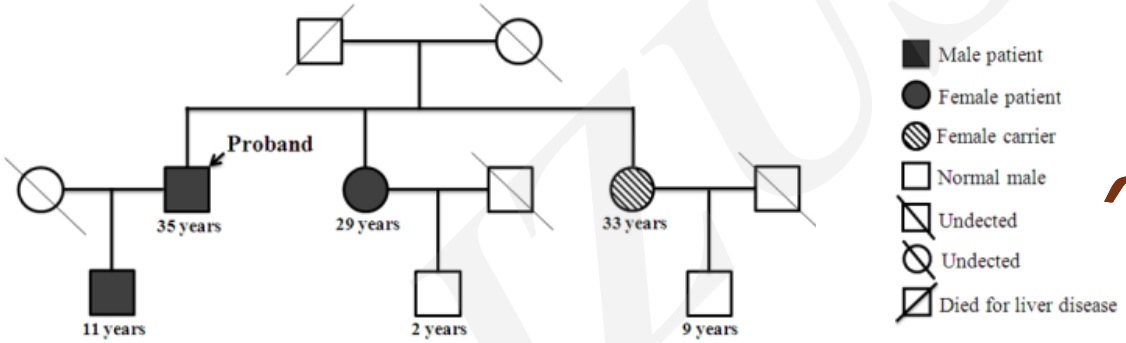
# Innovation points

**Observe** some nucleotide variations

**c. 798C>G** **c. 921A>G**
**IVS 1 as -23C>T** **IVS 3 ds +23A>G**
**IVS 9 ds +35C>T** **IVS3-48 T>C**




**Analysis** the Family pedigree of the patient A






**We confirm the diagnosis of EPP and expand the *FECH* genotypic spectrum**

JZUS-B