

# Gene analysis of Wilson's disease

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# 2000 Fiscal Year Final Research Report Summary

## Gene analysis of Wilson's disease

Research Project

### Project/Area Number

11670487

### Research Category

Grant-in-Aid for Scientific Research (C)

### Allocation Type

Single-year Grants

### Section

一般

### Research Field

Gastroenterology

### Research Institution

Kanazawa University

### Principal Investigator

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### Project Period (FY)

1999 – 2000

### Keywords

Wilson's disease / gene analysis / genotype phenotype correlation / Fulminant hepatic failure / ATP7B / mutation

### Research Abstract

Background : Fulminant hepatic failure is rare but fatal manifestation of Wilson's disease (WD). Although many mutations of the gene WD (ATP7B) have been reported, genotype-phenotype correlation in WD was not completely investigated and specific mutations related to fulminant hepatic failure have not been found. Aims : In this study, we, detected mutations of ATP7B among Japanese patients with WD including patients with fulminant hepatic failure and sought the correlation between mutations and phenotypes. We also sought to determine if genotypic assignment according to the types of protein-product could be related to the prevalence of fulminant hepatic failureamong the patients with WD.Subjects : NDA was isolated from peripheral blood collected from 45 unrelated Japanese families including 51 patients with WD.Methods : 1) Each exon of ATP7B was amplified by PCR, and the products were screened by SSCP.When abnormal bans were detected by SSCP, patient DNA was directly sequenced to identi …▼ More

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