



**The Chinese University of Hong Kong**  
**Non-confidential Abstract of Technology Disclosure**

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**Title:**

**A Catalogue of Chinese-relevant Markers for Diabetic Nephropathy**

**CUHK Ref. No.:**

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**Inventor(s):**

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**Patent Status:**

- ◆ Chinese Patent Pending
- ◆ Hong Kong Patent Pending

**Non-confidential abstract:**

The present invention identifies and describes a combination of genetic markers that are associated with increased risk for diabetic nephropathy, either independently or through interactions with obesity, blood pressure and lipid controls. These polymorphisms include the lipoprotein lipase (Ser447Term), paraoxonase 1 (Met55Leu), paraoxonase 2 (Ser311Cys), G protein beta-3 subunit (C825T), apolipoprotein B (Thr71Ile), beta-3 adrenergic receptor (Trp64Arg) and hepatic lipase (C-480T). In addition, polymorphisms of apolipoprotein B (Thr71Ile), endothelial nitric oxide synthase (A-922G), stromelysin (5A/6A), angiotensin II receptor type 1 (A1166C), angiotensinogen (Met235Thr) and G protein beta-3 subunit (C825T) are associated with risk for dyslipidaemia either at the presence or absence of diabetic nephropathy. This catalogue of genetic markers can be used as a diagnostic tool to identify subjects predisposed to diabetic nephropathy and dyslipidaemia.

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