

TITLE: METHOD FOR THE DIAGNOSIS AND PROGNOSIS OF KIDNEY DAMAGE

FIELD OF INTEREST

Biotechnology (Biomarkers, Diagnosis, Kidney Damage)

CLINICAL NEED

Chronic kidney disease (CKD) or chronic kidney failure is a progressive and irreversible loss of kidney function. CKD is diagnosed because of the study in people who are known to be at risk for kidney problems, such as those with high blood pressure or diabetes and those with relatives with CKD. In the early stages of CKD, when clinical manifestations and laboratory outcomes are minimal or non-existent, the diagnosis may be suggested by the association of non-specific manifestations. However, there is still a need to identify and validate new, more accurate renal damage biomarkers, whose determination is also quick and simple, and without the need to biopsy the patient. These biomarkers should determine the cause of kidney damage, more specifically chronic kidney damage.

DESCRIPTION OF THE INVENTION

Researchers propose the use of a gene from the GDF family as a biomarker of kidney disease. They have found that this gene is overexpressed in different models of acute and chronic kidney damage. Furthermore, the levels of this biomarker are increased in the urine of patients with acute kidney damage.

Moreover, this biomarker can be used to differentiate the cause of kidney damage in diabetic patients and allows identifying patients already diagnosed with CKD who are at high risk of death.

TECHNOLOGY KEYWORDS

Kidney Disease, Kidney Damage, biomarkers, GDF gene, diagnosis.

IPR STATUS

Patent application number: P201830849.

Applicants: IIS-FJD.

TYPE AND ROLE OF PARTNER

Looking for commercial partners interested in licensing.

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