Title: NETRIN-1 AS A BIOMARKER OF INJURY AND DISEASE

Abstract: Detection and diagnosis of injury and/or disease in a subject can be key to preventing irreversible damage and death. Methods of aiding detection and assessment of a disease or condition in a subject are included, which include assaying netrin-1 protein and/or nucleic acid in a test sample obtained from the subject. Methods of assessment of treatment of a disease or condition in a subject are provided, which include assaying netrin-1 protein and/or nucleic acid in a test sample obtained from the subject. Disclosed methods allow for earlier detection of renal dysfunction compared to currently available technology.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

G01N 33/68(2006.01)i, G01N 33/53(2006.01)i, C07K 14/47(2006.01)i, C12Q 1/68(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G01N 33/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: netrin-1, renal dysfunction, UNCSB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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* Further documents are listed in the continuation of Box C.

** See patent family annex.

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

05 OCTOBER 2010 (05.10.2010)

Date of mailing of the international search report

06 OCTOBER 2010 (06.10.2010)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Sego-gu, Daejeon 302-701, Republic of Korea
Facsimile No. 82-42-472-7140

Authorized officer

CHO, Hyun Kyung
Telephone No. 82-42-481-5629

Form PCT/ISA/210 (second sheet) (July 2009)
Box No. 1  Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of:

   a. a sequence listing filed or furnished
      - [ ] on paper
      - [x] in electronic form

   b. time of filing or furnishing
      - [ ] contained in the international application as filed
      - [x] filed together with the international application in electronic form
      - [ ] furnished subsequently to this Authority for the purposes of search

2. [ ] In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

Form PCT/ISA/210 (continuation of first sheet (1))  (July 2009)
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Form PCT/ISA/210 (patent family annex) (July 2009)