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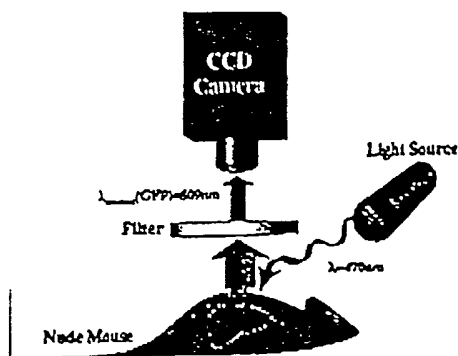
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(54) Title: WHOLE-BODY OPTICAL IMAGING OF GENE EXPRESSION AND USES THEREOF

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(57) Abstract: The invention relates to the whole-body external optical imaging of gene expression. Specifically, methods for whole-body external optical imaging of gene expression and methods for evaluating a candidate protocol or drug for treating diseases or disorders using a fluorophore operatively linked to the promoter of a gene and external optical imaging are provided herein. Methods to screen for substances or genes that regulate target promoters are also provided.

**INTERNATIONAL SEARCH REPORT**

International Application No  
PCT/US 01/08947

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C12N15/63 C12Q1/68 C07K14/435 A01K67/027 A61K49/00

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)  
 IPC 7 C12Q C07K A61K A01K

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
 EPO-Internal, MEDLINE, BIOSIS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MENG YANG ET AL: "WHOLE-BODY OPTICAL IMAGING OF GREEN FLUORESCENT PROTEIN-EXPRESSING TUMORS AND METASTASES" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 97, no. 3, 1 February 2000 (2000-02-01), pages 1206-1211, XP000904536 ISSN: 0027-8424 cited in the application page 1206, right-hand column -page 1210; figures 1-6; table 1 <div style="text-align: center;">--- -/--</div>	1-42

Further documents are listed in the continuation of box C.       Patent family members are listed in annex.

° Special categories of cited documents :

<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*T* 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</p> <p>*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</p> <p>*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.</p> <p>*&amp;* document member of the same patent family</p>
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Date of the actual completion of the international search  16 August 2002	Date of mailing of the international search report  29/08/2002
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  van Klompenburg, W
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International Application No  
PCT/US 01/08947

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A	US 6 020 192 A (HAUSWIRTH WILLIAM ET AL) 1 February 2000 (2000-02-01) column 2, line 40 - line 46 column 23, line 64 -column 24, line 35 examples 4-9 ----	9,10
P,X	YANG MENG ET AL: "Visualizing gene expression by whole-body fluorescence imaging." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 97, no. 22, 24 October 2000 (2000-10-24), pages 12278-12282, XP002210069 October 24, 2000 ISSN: 0027-8424 page 12278, right-hand column -page 12282; figures 1,3,4 -----	1

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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