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- (71) Applicant (*for all designated States except US*): **LIFESPAN BIOSCIENCES, INC.** [US/US]; 2401 Fourth Avenue, Suite 900, Seattle, WA 98121 (US). **Published:**  
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



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(54) Title: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS RELATED TO GRP 38

(57) Abstract: The present invention comprises systems, methods, compositions and the like, such as diagnostics, medicaments and therapeutics, relating to GPR 38 and Alzheimer's disease and Parkinson's disease, inflammatory bowel diseases including ulcerative colitis and Crohn's disease, Hodgkin's disease, glioblastoma and carcinomas including breast, colon, lung (small cell and adenocarcinoma) pancreatic (small cell and adenocarcinoma), ovarian, and prostate. Such diagnostics and therapeutics include peptide, protein, antibody and nucleic acid based compositions, including agonists, antagonists, probes, antisense and gene therapy compositions.

INTERNATIONAL SEARCH REPORT

In International Application No  
PCT/US 01/45219

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01N33/68 G01N33/574

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 G01N

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

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FEIGHNER S D ET AL: "RECEPTOR FOR MOTILIN IDENTIFIED IN THE HUMAN GASTROINTESTINAL SYSTEM" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 284, no. 5423, 25 June 1999 (1999-06-25), pages 2184-2188, XP001088406 ISSN: 0036-8075 page 2188, middle column, paragraph 2	39
X	US 5 972 939 A (CHEN ROBERT H ET AL) 26 October 1999 (1999-10-26) abstract	40,41

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

° Special categories of cited documents :

*A* document defining the general state of the art which is not considered to be of particular relevance	*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
*E* earlier document but published on or after the international filing date	*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
*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)	*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.
*O* document referring to an oral disclosure, use, exhibition or other means	* & * document member of the same patent family
*P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search <b>8 November 2002</b>	Date of mailing of the international search report <b>02/12/2002</b>
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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 <b>Weijland, A</b>
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## INTERNATIONAL SEARCH REPORT

Int. Application No  
PCT/US 01/45219

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 006 122 A (CHUGAI PHARMACEUTICAL CO LTD) 7 June 2000 (2000-06-07) abstract page 2, line 27 - line 34 -----	41
X	US 5 712 253 A (CURTY CYNTHIA BURNELL ET AL) 27 January 1998 (1998-01-27) abstract column 1, line 56 - line 67 -----	41
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