

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 September 2008 (25.09.2008)

PCT

(10) International Publication Number
WO 2008/116150 A3

(51) International Patent Classification:
G01N 33/53 (2006.01) *A61B 19/00* (2006.01)
G01N 33/569 (2006.01)

(21) International Application Number:
PCT/US2008/057820

(22) International Filing Date: 21 March 2008 (21.03.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/896,171 21 March 2007 (21.03.2007) US

(71) Applicant (for all designated States except US):
CEDARS-SINAI MEDICAL CENTER [US/US];
8700 Beverly Boulevard, Los Angeles, California 90048
(US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FLESHNER, Phillip, R.** [US/US]; 8737 Beverly Blvd., Suite 101, Los Angeles, California 90048 (US). **VASILIAUSKAS, Eric, A.** [US/US]; 1826 5th Street, Manhattan Beach, California 90266 (US). **MELMED, Gil** [US/US]; 1539 S. Crest Dr., Los Angeles, California 90035 (US). **TARGAN, Stephan, R.** [US/US]; 240 22nd Street, Santa Monica, California 90402 (US).

(74) Agents: **SENN, Sean** et al.; 865 South Figueroa Street, Suite 2400, Los Angeles, California 90017-2566 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
13 November 2008

(54) Title: ILEAL POUCH-ANAL ANASTOMOSIS (IPAA) FACTORS IN THE TREATMENT OF INFLAMMATORY BOWEL DISEASE

(57) Abstract: A common long term problem after Ileal Pouch-Anal Anastomosis (IPAA) is the inflammation of the pouch, called pouchitis. Additionally, about 5-10% of patients undergoing IPAA with a diagnosis of ulcerative colitis at the time of surgery are subsequently diagnosed with Crohn's disease. In one embodiment, the present invention provides methods of diagnosing and predicting susceptibility to pouchitis after IPAA by detecting the presence or absence of pANCA and/or Cbir1 Flagellin expression.



WO 2008/116150 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US08/57820

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: G01N 33/53(2006.01),33/569(2006.01);A61B 19/00(2006.01)

 USPC: 435/4,7.1,7.3,7.92
 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)
 U.S. : 435/4,7.1,7.3,7.92

 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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5937862 (Targan et al.) 17.August 1999 (17.08.1999) whole document.	2,3, 5,6, 9, 10
X	US 20060003392 (Oh et al.), 5 Jan 2006 (05.01.2006) [0119]	3, 6
A	Papadakis K., et al. Anti-flagellin (CBir1) phenotypic and genetic Crohn's disease associations. Inflammatory Bowel Diseases Volume 13 Issue 5, Pages 524 - 530	

Further documents are listed in the continuation of Box C. See patent family 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 application or patent 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: 26 August 2008 (26.08.2008)
 Date of mailing of the international search report: 11 SEP 2008

Name and mailing address of the ISA/US:
 Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 Facsimile No. (571) 273-3201

Authorized officer: DANIEL C. GAMBETT
 Telephone No. 571 272 1600