

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/013902 A3

(51) International Patent Classification⁷: **A61K 31/075**

(21) International Application Number:
PCT/US2004/025336

(22) International Filing Date: 4 August 2004 (04.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/492,367 4 August 2003 (04.08.2003) US

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

(88) Date of publication of the international search report:
6 May 2005

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.

(54) Title: METHODS AND COMPOSITIONS FOR INHIBITING THE PROLIFERATION OF PROSTATE CANCER CELLS

(57) Abstract: The invention provides for methods of monitoring the proliferation of cultured prostate cancer cells in the presence of celecoxib and/or nimesulide, methods of treating an individual with prostate cancer or at risk of developing prostate cancer, and methods of reducing the risk of recurrence of prostate cancer in an individual who had previously been treated for prostate cancer. Methods of the invention further include treating an individual with benign prostatic hyperplasia (BPH) with celecoxib and/or nimesulide as well as methods of screening for compounds that inhibit the proliferation of prostate cancer cells. The invention provides for compositions and articles of manufacture containing celecoxib and/or nimesulide in particular formulations, and celecoxib and/or nimesulide with a second compound that also exerts an effect on the androgen receptor.

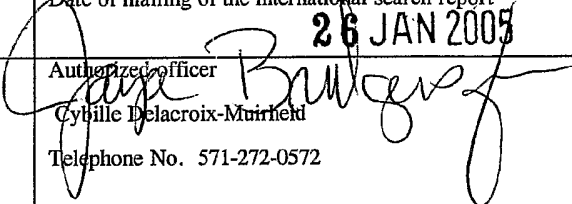


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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25336

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 31/075 US CL : 514/717, 721 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. : 514/717, 721 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched none Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0042375 A1 (HEIMBROOK et al.) 11 April 2002 (11.04.2002), see the abstract; paragraph [0018]; [0019]; [0029]; [0041]; [0042], [0046] claims 26-27.	1-29, 39-40
X	US 2003/0143165 A1 (EVANS et al.) 31 July 2003 (31.07.2003), see paragraph [0029]; [0030]; [0062]-[0070].	37
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Y		38
Y	US 2002/0026209 A1 (HUNG) 28 February 2002 (28.02.2002), paragraphs [0052]; [0053].	30-36
☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.		
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"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	Date of mailing of the international search report	
09 December 2004 (09.12.2004)	26 JAN 2005	
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. (703) 305-3230	Authorized officer  Cybille Delacroix-Muirhead Telephone No. 571-272-0572	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25336

Continuation of B. FIELDS SEARCHED Item 3:

EAST:

NSAID, non-steroidal anti-inflammatory drug, prostate cancer, benign prostatic hyperplasia, silymarin, silibin, docosahexaenoic acid, eicosapentaenoic acid, quercetin, perillyl alcohol, resveratrol, flufenamic acid, polyphenol, anti-androgen