

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/018654 A3

(51) International Patent Classification⁷: **C12N 5/08**,
A61K 35/36

(21) International Application Number:
PCT/GB2003/003634

(22) International Filing Date: 20 August 2003 (20.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0219544.4 22 August 2002 (22.08.2002) GB
0219777.0 27 August 2002 (27.08.2002) GB

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, 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, 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 (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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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:
8 April 2004

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: CELL CULTURE SURFACE

(57) Abstract: The invention relates to a method for culturing mammalian cells which reduces transfer of xenobiotic material to said cells.



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INTERNATIONAL SEARCH REPORT

Internat. Application No
PCT/GB 03/03634

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N5/08 A61K35/36

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 C12N A61K

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, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/066697 A (WISCONSIN ALUMNI RESEARCH FOUNDATION) 13 September 2001 (2001-09-13) the whole document	1-52
A	WO 00/78928 A (UNIVERSITY OF SHEFFIELD) 28 December 2000 (2000-12-28) cited in the application the whole document	1-52
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

5 February 2004

Date of mailing of the international search report

12/02/2004

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Application No

PCT/GB 03/03634

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HADDOW D B ET AL: "COMPARISON OF PROLIFERATION AND GROWTH OF HUMAN KERATINOCYTES ON PLASMA COPOLYMERS OF ACRYLIC ACID/1,7-OCTADIENE AND SELF-ASSEMBLED MONOLAYERS" JOURNAL OF BIOMEDICAL MATERIALS RESEARCH, WILEY, NEW YORK, NY, US, vol. 47, no. 1, 5 December 1999 (1999-12-05), pages 379-387, XP000978964 ISSN: 0021-9304 cited in the application the whole document	
P,X	WO 03/035850 A (CELLTRAN LIMITED) 1 May 2003 (2003-05-01) cited in the application the whole document	1-52

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern:

Application No

PCT/GB 03/03634

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0166697	A	13-09-2001	AU 4197301 A	17-09-2001
			BR 0108507 A	17-12-2002
			CA 2402299 A1	13-09-2001
			CN 1416345 T	07-05-2003
			EP 1261691 A2	04-12-2002
			JP 2003525625 T	02-09-2003
			NO 20024200 A	03-09-2002
			WO 0166697 A2	13-09-2001
			US 2003190748 A1	09-10-2003
WO 0078928	A	28-12-2000	AU 5546400 A	09-01-2001
			CA 2375557 A1	28-12-2000
			CN 1357039 T	03-07-2002
			EP 1185621 A2	13-03-2002
			WO 0078928 A2	28-12-2000
			JP 2003503318 T	28-01-2003
			NO 20016184 A	21-02-2002
WO 03035850	A	01-05-2003	NZ 516064 A	28-11-2003
			WO 03035850 A1	01-05-2003