(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 May 2003 (30.05.2003)

PCT

(10) International Publication Number
WO 03/044213 A3

(51) International Patent Classification[7]: C12Q 1/68, C12M 1/00, 1/36, G01N 33/543, B01L 3/00

(21) International Application Number: PCT/US02/37054

(22) International Filing Date:
20 November 2002 (20.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/332,293	20 November 2001 (20.11.2001)	US
60/332,635	21 November 2001 (21.11.2001)	US
60/355,205	7 February 2002 (07.02.2002)	US
60/359,563	22 February 2002 (22.02.2002)	US
60/389,610	17 June 2002 (17.06.2002)	US
60/393,551	2 July 2002 (02.07.2002)	US

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(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, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, 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, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (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:
28 August 2003

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.

WO 03/044213 A3

(54) Title: CELL AND TISSUE ARRAYS AND MICROARRAYS AND METHODS OF USE

(57) Abstract: The invention relates to biological arrays, biological microarrays, and methods of using the arrrays and microarrays to detect the amount and/or presence of a biological molecule in a biological sample. Biological arrays of the invention comprise a solidified, sectionable matrix comprising a plurality of wells disposed therein and one or more biological samples disposed within the plurality of wells, which biological arrays optionally comprise an internal standard preparation and/or an orientation marker. Sections or slices of the biological arrays are mounted on a planar substrate surface to form cellular microarrays of the invention. In alternative cellular microarrays of the invention, the matrix material is a temperature-sensitive material removable from the microarray leaving cellular biological material on the substrate surface.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/37054

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68; C12M 1/00, 1/36; G01N 33/543; B01L 3/00
US CL : 435/6, 283.1, 286.2; 436/518; 422/99

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. : 435/6, 283.1, 286.2; 436/518; 422/99

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.
A	US 6,269,846 B1(OVERBECK et al) 07 August 2001 (07.08.2001), whole document.	1-160
A	US 6,101,946 A (MARTINSKY et al) 15 August 2000 (15.08.2000), whole document.	1-160
A	US 6,103,518 A (LEIGHTON et al) 15 August 2000 (15.08.2000), whole document.	1-160
A	US 6,110,426 A (SHALON et al) 29 August 2000 (29.08.2000), whole document.	1-160
A	WO 99/44062 (UNITED STATES OF AMERICA) 02 September 1999 (02.09.1999), whole document.	1-160

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"&" document member of the same patent family

Date of the actual completion of the international search
24 February 2003 (24.02.2003)

Date of mailing of the international search report
04 JUN 2003

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Form PCT/ISA/210 (second sheet) (July 1998)