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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 August 2006 (24.08.2006)

PCT

(10) International Publication Number
WO 2006/088493 A2

(51) International Patent Classification:
C12Q 1/70 (2006.01) *C12M 1/34* (2006.01)
C12Q 1/68 (2006.01)

(21) International Application Number:
PCT/US2005/024054

(22) International Filing Date: 5 July 2005 (05.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/590,931	2 July 2004 (02.07.2004)	US
60/609,918	15 September 2004 (15.09.2004)	US
60/631,437	29 November 2004 (29.11.2004)	US
60/631,460	29 November 2004 (29.11.2004)	US
60/691,768	16 June 2005 (16.06.2005)	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, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, 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, IS, IT, LT, LU, LV, 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:
— *without international search report and to be republished upon receipt of that report*

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: RESEQUENCING PATHOGEN MICROARRAY

(57) Abstract: The present invention relates to pathogen detection and identification by use of DNA resequencing microarrays. The present invention also provides resequencing microarray chips for differential diagnosis and serotyping of pathogens present in a biological sample. The present invention further provides methods of detecting the presence and identity of pathogens present in a biological sample. The present invention also provides a computer-implemented biological sequence identifier (CIBSI) system and method for selecting a subsequence from biological sequence data according to at least one selection parameter. The at least one selection parameter corresponds to a likelihood of returning a meaningful result from a similarity search.

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