

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
5 February 2004 (05.02.2004)

PCT

(10) International Publication Number
WO 2004/011904 A3

(51) International Patent Classification⁷: **G01N 33/48**

(21) International Application Number:
PCT/US2003/023506

(22) International Filing Date: 28 July 2003 (28.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/389,831 29 July 2002 (29.07.2002) 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, 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, 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).

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 July 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: QUALITY ASSURANCE FOR HIGH-THROUGHPUT BIOASSAY METHODS

(57) Abstract: The invention relates to a method of quality assurance/quality control for high-throughput bioassay processes. The method permits monitoring of an entire system for obtaining spectral data from biological samples. Generally, the method includes generating a bioassay process model, comparing a test sample against the bioassay process model. The bioassay process model may be based on the position of a centroid in n-dimensional space. The comparing may include comparing the location of a centroid associated with the test model against the centroid associated with the control model to determine the distance between the two centroids. By generating a trend plot of the distance between the centroid associated with the test sample and the centroid associated with the control model, overall system performance may be monitored over time.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/23506

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/48

US CL : 702/19

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. : 702/19

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)
EAST and STN

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	YAO et al. Evolving Artificial Neural Networks for Medical Applications. Proceedings of the First Korea-Australia Joint Workshop on Evolutionary Computation. 27-29 September 1995, pages 1-16.	1-24
Y	PEI et al. Feature Extraction Using Genetic Algorithms. Proceedings of the First International Symposium on Intelligent Data Engineering and Learning, IDEAL '98, October 1998, pages 371-384.	1-24
Y	WO 93/05478 A1 (BECTON, DICKINSON & COMPANY) 18 March 1993 (18.08.1993), entire document.	1-24
Y	ADAM et al. Serum Protein Fingerprinting Coupled with a Pattern-matching Algorithm Distinguishes Prostate Cancer from Benign Prostate Hyperplasia and Healthy Men. Cancer Research. 1 July 2002, Vol. 62, pages 3609-3614.	1-24
A	LI et al. Proteomics and Bioinformatics Approaches for Identification of Serum Biomarkers to Detect Breast Cancer. Clinical Chemistry, 2002, Vol. 48, No. 8, pages 1296-1304.	1-24

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☐ See patent family annex.

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"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

12 May 2004 (12.05.2004)

Date of mailing of the international search report

20 MAY 2004

Name and mailing address of the ISA/US

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