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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 February 2003 (20.02.2003)

PCT

(10) International Publication Number
WO 2003/014380 A3

(51) International Patent Classification[7]: C12Q 1/66, 1/02, A61K 49/00, C12N 15/03, G01N 33/50, 33/574, A61K 35/76, 35/12, 35/74

(21) International Application Number: PCT/IB2002/004767

(22) International Filing Date: 31 July 2002 (31.07.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
01118417.3 31 July 2001 (31.07.2001) EP
01125911.6 30 October 2001 (30.10.2001) EP

(71) Applicant and
(72) Inventor: **SZALAY, Aladár, A.** [HU/DE]; Hessenstrasse 64, 97078 Würzburg (DE).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **YU, Yong, A.** [CN/US]; 8465 Regents Road #245, San Diego, CA 92122 (US). **SHABAHANG, Shahrokh** [US/US]; 550 Pepper Way, Redlands, CA 92373 (US). **TIMIRYASOVA, Tatyana** [RU/US]; 7524 Charmant Drive #525, San Diego, CA 92122 (US).

(74) Agent: **SCHÜSSLER, Andrea**; Huber & Schüssler, Truderinger Str. 246, 81825 München (DE).

(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, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

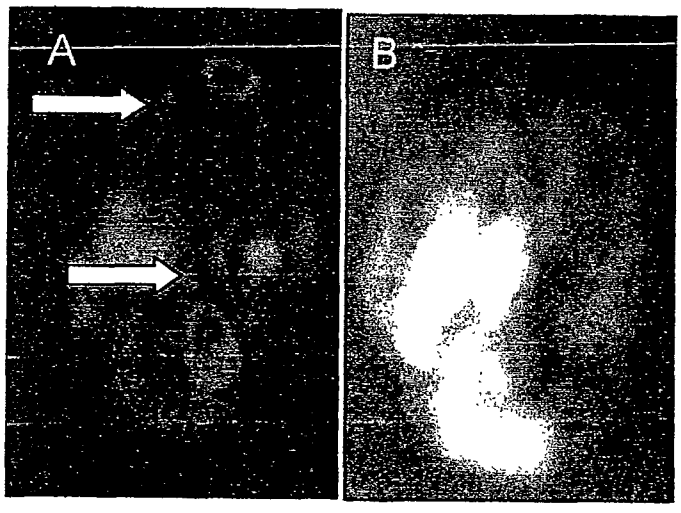
(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, 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:
22 January 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: MICROOROGANISMS AND CELLS FOR DIAGNOSIS AND THERAPY OF TUMORS



(57) Abstract: Described are diagnostic and pharmaceutical compositions comprising a microorganism or cell containing a DNA sequence encoding a detectable protein or a protein capable of inducing a detectable signal, e.g. a luminescent or fluorescent protein, or a protein inducing a signal detectable by magnetic resonance imaging (MRI) or a cell receptor capable of binding a ligand and, particular embodiment, furthermore (a) DNA sequence(s) encoding (a) protein(s) suitable for tumor therapy and/or elimination of metastatic tumors, e.g. a cytotoxic or cytostatic protein.

WO 2003/014380 A3