



(43) International Publication Date
9 February 2012 (09.02.2012)

(10) International Publication Number
WO 2012/019127 A3

- (51) **International Patent Classification:**
C12N 1/16 (2006.01) *A01N 63/04* (2006.01)
- (21) **International Application Number:**
PCT/US2011/046801
- (22) **International Filing Date:**
5 August 2011 (05.08.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/370,972 5 August 2010 (05.08.2010) US
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- (81) **Designated States** (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, SC, SD, SE,
SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT,
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (84) **Designated States** (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
— with sequence listing part of description (Rule 5.2(a))

- (88) **Date of publication of the international search report:**
27 March 2014

(54) **Title:** COMBINATION YEAST-BASED IMMUNOTHERAPY AND ARGININE THERAPY

(57) **Abstract:** Disclosed is a method for the prevention and/or treatment of diseases associated with myeloid-derived suppressor cell (MDSC)-mediated immunosuppression and/or arginase-mediated immunosuppression, including without limitation cancer. The method includes the combination of yeast-based immunotherapy and arginine therapy. Compositions and kits encompassed by the invention are also described.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 11/46801

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A01N 63/04; C12N 1/16 (2011.01)

USPC - 424/93.51, 435/255.1

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(8): A01N 63/04; C12N 1/16 (2011.01);

USPC: 424/93.51, 435/255.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC: 424/93.5, 424/93.1, 435/255.2, 435/254.1, 435/254.11, 435/243

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST, Google Scholar: L-arginine, arginine therapy, myeloid-derived suppressor cell, MDSC, arinase-mediated immunosuppression, brain cancer, glioblastoma multiforme, lung cancer, renal cancer, carcinomal, breast cancer, cancer, arginase inhibitor, powder\$4, tablet, capsule, nor-NOHA, NOHA, daily, administer\$4, therapy, oral, yeast, vehicle\$2, re

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2009/0142367 A1 (FRANZUSOFF et al.) 04 June 2009 (04.06.2009); abstract, para [0007], [0017], [0020], [0028], [0033], [0073], [0080], [0097], [00106], [0120]	1-35
Y	US 2005/0158401 A1 (MORRIS) 21 July 2005 (21.07.2005); para [0023], [0059], [0081], [0086], [0088], [0166]	1-35
Y	HEYS et al. Dietary Supplementation with L-arginine: modulation of tumour-infiltrating lymphocytes in patients with colorectal cancer. British Journal of Surgery, 1997. Vol. 84, pages 238-241. abstract, page 241, col 1, para 2.	6, 7, 28-33

☐ Further documents are listed in the continuation of Box C.

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"&" document member of the same patent family

Date of the actual completion of the international search

07 December 2011 (07.12.2011)

Date of mailing of the international search report

16 DEC 2011

Name and mailing address of the ISA/US

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P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

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PCT OSP: 571-272-7774