

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
29 January 2009 (29.01.2009)

PCT

(10) International Publication Number  
**WO 2009/014708 A3**

(51) International Patent Classification:

A61K 39/00 (2006.01)

(21) International Application Number:

PCT/US2008/008925

(22) International Filing Date: 23 July 2008 (23.07.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/961,743 23 July 2007 (23.07.2007) 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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

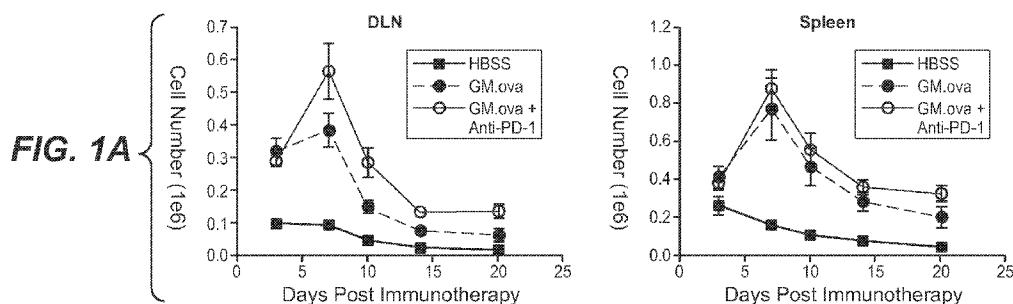
Published:

— with international search report

(88) Date of publication of the international search report:

19 March 2009

(54) Title: PD-1 ANTIBODIES IN COMBINATION WITH A CYTOKINE-SECRETING CELL AND METHODS OF USE THEREOF



(57) Abstract: The present invention relates to a method of enhancing the anti-tumor response in a mammal. More particularly, the invention is concerned with combinations comprising a cytokine-secreting cell and an anti-PD-1 antibody, and methods of administering the combination for enhanced immune response to tumor cells in a patient with a cancer.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 08/08925

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 39/00 (2008.04)

USPC - 424/133.1

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)

USPC: 424/133.1

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

USPC: 424/133.1; 514/44

(text search)

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

PubWEST(PGPB,USPT,USOC,EPAB,JPAB); Google; PubMed

Search terms: gvax, mgvax, pd-1, anti-pd-1, antibody, cancer, cytokine, gm-csf, secreting, expressing, cellular, immunotherapy, costimulation

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category*     | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                               | Relevant to claim No.                                                                           |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| X<br>---<br>Y | WO 2006/121168 A1 (KORMAN et al.) 16 November 2006 (16.11.2006) entire document, esp. pg 1, para 2; pg 2, para 4; pg 9, para 2; pg 21, para 3; pg 56, para 2, 5; pg 58, para 3; pg 59, para 2-5; pg 60, para 2, 4; pg 65, para 4 | 1-4, 7-13, 16-20, 22-23, 25-27, 30-36, 40-52, 55<br><br>5-6, 14-15, 21, 24, 28-29, 37-39, 53-54 |
| Y             | US 2005/0002916 A1 (JOOSS et al.) 6 January 2005 (06.01.2005) entire document, esp. para [0009], [0012], [0014], [0016], [0061], [0096], [0100], [0175]                                                                          | 5-6, 14-15, 21, 24, 28-29, 37-39, 53-54                                                         |

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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

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

7 December 2008 (07.12.2008)

Date of mailing of the international search report

22 DEC 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents  
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