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(71) Applicant (for all designated States except US): **UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INC.** [US/US]; 223 Grinter Hall, Gainesville, FL 32611 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MCFADDEN, Douglas, Grant** [US/US]; 7714 NW 22nd Lane, Gaines-

ville, FL 32605 (US). **BARTEE, Eric, Carter** [US/US]; 6623 SW 81st Terrace, Gainesville, FL 32608 (US). **COGLE, Christopher, R.** [US/US]; 206 NE 7th Street, Gainesville, FL 32601 (US).

(74) Agents: **VAN DYKE, Timothy, H.** et al; Beusse Wolter Sanks Mora & Maire, 390 N. Orange Avenue, Ste 2500, Orlando, FL 32801 (US).

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[Continued on nextpage]

(54) Title: METHODS FOR TREATING OR PREVENTING GRAFT VERSUS HOST DISEASE

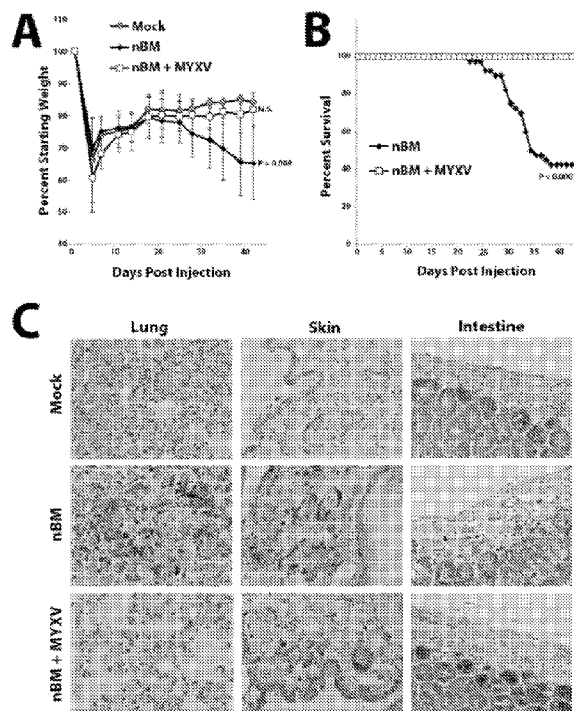


FIG. 1

(57) Abstract: A method of treating or preventing graft versus host disease (GVHD) in a subject receiving a graft comprising hematopoietic cells is provided. The method comprises contacting the graft ex vivo with an amount of a Myxoma Virus effective to inhibit proliferation of T lymphocytes in the graft and to treat or prevent GVHD in the host subject following infusion of the graft into the subject. After the contacting of the graft with the Myxoma Virus, the method comprises transplanting the virus-treated graft into the subject.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/041905**A. CLASSIFICATION OF SUBJECT MATTER****A61K 35/28(2006.01)i, A61K 35/12(2006.01)1, A61P 35/00(2006.01)1, A61P 37/00(2006.01)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)

A61K 35/28; A61K 39/395; A61K 31/70; A61K 35/76; A61K 38/13; C07K 16/00; C12N 7/00; A61P 31/00; A61K 31/4745

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: hematopoietic cell, Myxoma virus, graft, T-lymphocyte, bone marrow

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2007-0066517 A1 (DIMARTINO, JORGE et al.) 22 March 2007 See abstract, paragraph [0138] and claims 39, 40.	16--20
Y	MICHELE BARRY et al. 'Myxoma virus induces extensive CD4 downregulation and dissociation of p56lck in infected rabbit CD4+ T lymphocytes' Journal of Virology, 1995, Vol.69, No.9, pp. 5243-5251. See abstract and pp.5243, 5244.	16--20
A	US 7465445 B2 (TEZUKA, KATSUNARI et al.) 16 December 2008 See abstract and claim 1.	16--20
A	US 2009-0035276 A1 (MCFADDEN, GRANT et al.) 05 February 2009 See abstract and claim 1.	16--20
A	US 7582614 B2 (MCFADDEN, GRANT et al.) 01 September 2009 See abstract and claims 1, 10.	16--20
A	PIERS NASH et al. 'Immunomodulation by viruses: the myxoma virus story' Immunological Reviews, 1999, Vol.168, pp. 103-120. See abstract and page 115.	16--20



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"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

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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28 FEBRUARY 2013 (28.02.2013)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan
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Authorized officer

Yun So Ra

Telephone No. 82-42-481-3367



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/041905

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1-15
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 1-15 pertain to methods for treatment of the human body by therapy, and thus relate to subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulation under the PCT, to search.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/041905

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INTERNATIONAL SEARCH REPORT

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International application No.

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