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(71) Applicant (for all designated States except US): **UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION** [US/US]; 200 Gardner Steel Conference Center, Thackeray & O'Hara Streets, Pittsburgh, PA 15260 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GILBERT, Thomas** [US/US]; 893 Harrison Ave., Pittsburgh, PA 15221 (US). **MANNI, Michelle** [US/US]; 104 Crescent Dr., Sewickley, PA 15143 (US). **OURY, Tim, D.** [US/US]; 2435 Dogwood Drive, Wexford, PA 15090 (US).

(74) Agent: **HIRSHMAN, Jesse, A.**; Hirshman Law, LLC, 101 West Station Square Drive, Suite 500, Pittsburgh, PA 15219 (US).

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[Continued on next page]

(54) Title: BIOLOGIC SCAFFOLD FOR PREVENTION OF PULMONARY FIBROSIS

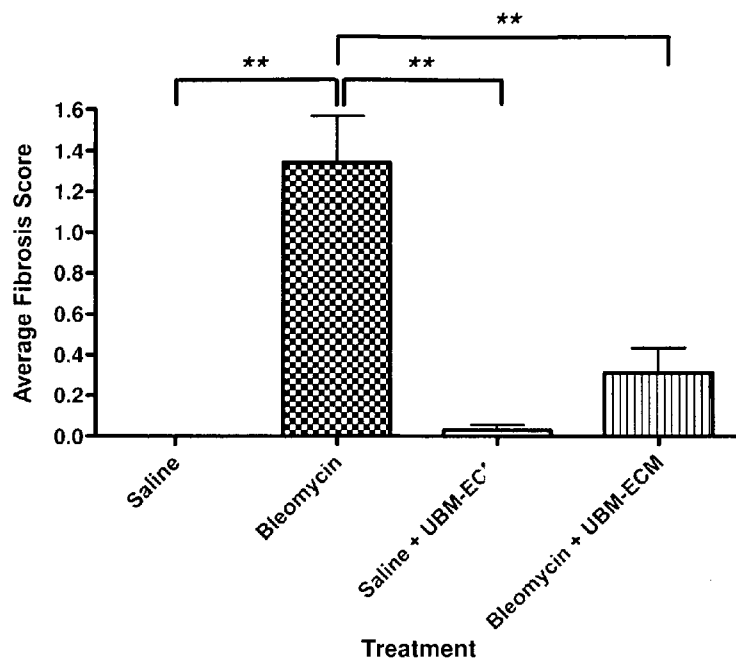


Fig. 2

(57) Abstract: Provided herein are methods of preventing, lessening or treating pulmonary fibrosis in a subject. The methods comprise delivering an amount of a powdered extracellular matrix (ECM)-derived material to the respiratory system of the subject effective to prevent, lessen or treat pulmonary fibrosis in a subject. Also provided is an apparatus for delivering the powdered ECM-derived material to a subject.



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- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

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

21 October 2010

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/066754**A. CLASSIFICATION OF SUBJECT MATTER*****A61K 9/14(2006.01)i, A61K 9/08(2006.01)i, A61P 11/00(2006.01)i***

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 9/14; A61F 2/00; A61K 35/12; A61K 48/00; A61N 1/00; C12N 5/00; C12N 5/06

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), PubMed, JPO, USPTO, Google & Keywords: ECM, pulmonary, nasal, airway

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005-0013870 A1 (FREYMAN TOBY et al.) 20 January 2005 See Abstract, Paragraph [0133], Claims 1,22-23.	20-35
A	US 2006-0134079 A1 (HARIS SIH et al.) 22 June 2006 See Abstract, Paragraph [0119], Claims 1,18.	20-35
A	US 2003-0044444 A1 (PRASANNA MALAVIYA et al.) 06 March 2003 See Abstract, Claims 1,20,25.	20-35



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

12 AUGUST 2010 (12.08.2010)

Date of mailing of the international search report

13 AUGUST 2010 (13.08.2010)

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Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Kim, Moon kyoung

Telephone No. 82-42-481-5610



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2009/066754**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.: 1-19
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 1-19 pertain to methods for treatment of the human body by therapy, as well as diagnostic methods, and thus relate to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of PCT and Rule 39.1(iv) of the Regulations 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/US2009/066754

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005-0013870 A1	20.01.2005	EP 1648533 A1 US 2005-0181016 A1 US 2009-138074 A1 WO 2005-009497 A1	26.04.2006 18.08.2005 28.05.2009 03.02.2005
US 2006-0134079 A1	22.06.2006	None	
US 2003-0044444 A1	06.03.2003	None	