

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 21122.0043P1	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US 09/69652	International filing date ( <i>day/month/year</i> ) 29 December 2009 (29.12.2009)	(Earliest) Priority Date ( <i>day/month/year</i> ) 29 December 2008 (29.12.2008)
Applicant THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

the international application in the language in which it was filed.

a translation of the international application into \_\_\_\_\_ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b.  This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (see Box No. II).

3.  **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 09/69652

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - A01N 55/02; A61K 31/555 (2010.01) USPC - 514/184-185 According to International Patent Classification (IPC) or to both national classification and IPC													
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) USPC: 514/184-185 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 252/182.3, 182.12; 508/244, 283, 388; 514/492; 585/862 (see search terms below) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Electronic Databases Searched: USPTO WEST (PGPUB, EPAB, JPAB, USPTO, Google. Search Terms Used: bioactive, ionic liquid composition, triazolates, triazolate, benzimidazolate, triazolate, triazolium, imidazolium, pyrazolium, oxazolium, acid, base													
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>													
<table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X - Y</td> <td>US 2007/0093462 A1 (Rogers et al. ) 26 April 2007 (26.04.2007) abstract; para [0017], [0077], [0083], [0086], [0094], [0096]-[0097], [0100], [0105], [0109]-[0110], [0121], [0147]-[0149], [0157], [0360], [0367], [0382], [0338], [0399]-[0400], [0436]</td> <td>1-24, 25a-33a, 25b-33b and 34-60 ----- 61-155</td> </tr> <tr> <td>Y</td> <td>US 6,967,074 B2 (Duffy et al.) 22 November 2005 (22.11.2005) col 42, ln 41-64</td> <td>61-155</td> </tr> <tr> <td>A</td> <td>US 2007/0006774 A1 (Rogers et al.) 11 January 2007 (11.01.2007) entire document</td> <td>1-24, 25a-33a, 25b-33b and 34-155</td> </tr> </tbody> </table>	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X - Y	US 2007/0093462 A1 (Rogers et al. ) 26 April 2007 (26.04.2007) abstract; para [0017], [0077], [0083], [0086], [0094], [0096]-[0097], [0100], [0105], [0109]-[0110], [0121], [0147]-[0149], [0157], [0360], [0367], [0382], [0338], [0399]-[0400], [0436]	1-24, 25a-33a, 25b-33b and 34-60 ----- 61-155	Y	US 6,967,074 B2 (Duffy et al.) 22 November 2005 (22.11.2005) col 42, ln 41-64	61-155	A	US 2007/0006774 A1 (Rogers et al.) 11 January 2007 (11.01.2007) entire document	1-24, 25a-33a, 25b-33b and 34-155	
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<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>													
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Date of the actual completion of the international search 23 February 2010 (23.02.2010)	Date of mailing of the international search report <b>05 MAR 2010</b>												
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774												