

|                                      |
|--------------------------------------|
| <b>PATENT ASSIGNMENT COVER SHEET</b> |
|--------------------------------------|

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3175001

|   |   |
|---|---|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT  |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT  |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>   |
| B. THERESE KINSELLA   | 11/27/2014  |
| PATRICK GUIRY   | 12/17/2014  |
| HELEN REID  | 11/27/2014  |
| BARRY O'CONNOR  | 12/01/2014  |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN |
| <b>Street Address:</b>  | BELFIELD 4  |
| <b>City:</b>  | DUBLIN  |
| <b>State/Country:</b>   | IRELAND   |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>   |
| <b>Application Number:</b>  | 14391856  |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (617)856-8201   |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |   |
| <b>Phone:</b>   | 617-856-8145  |
| <b>Email:</b>   | IP@BROWNRUDNICK.COM   |
| <b>Correspondent Name:</b>  | THOMAS C. MEYERS  |
| <b>Address Line 1:</b>  | ONE FINANCIAL CENTER  |
| <b>Address Line 4:</b>  | BOSTON, MASSACHUSETTS 02111                                       |
| <b>ATTORNEY DOCKET NUMBER:</b>  | UCD-001/01US 29850/6  |
| <b>NAME OF SUBMITTER:</b>   | THOMAS C. MEYERS  |
| <b>SIGNATURE:</b>   | /THOMAS C. MEYERS/  |
| <b>DATE SIGNED:</b>   | 01/08/2015  |
| <b>Total Attachments: 9</b>   |   |
| source=UCD-001-01US_Assignment#page1.tif  |   |
| source=UCD-001-01US_Assignment#page2.tif  |   |
| source=UCD-001-01US_Assignment#page3.tif  |   |

source=UCD-001-01US\_Assignment#page4.tif

source=UCD-001-01US\_Assignment#page5.tif

source=UCD-001-01US\_Assignment#page6.tif

source=UCD-001-01US\_Assignment#page7.tif

source=UCD-001-01US\_Assignment#page8.tif

source=UCD-001-01US\_Assignment#page9.tif

**ASSIGNMENT**

**WHEREAS** we, the below named inventors:

**B. Therese Kinsella, Patrick Guiry, Helen Reid, and Barry O'Connor**

hereinafter referred to as "Assignor" have made an invention(s) set forth in applications for patent entitled:

**THROMBOXANE RECEPTOR ANTAGONISTS**

for which we filed an international patent application having International Application Serial No. **PCT/IB2013/001258** and International Filing Date **April 17, 2013**, which application is now pending as U.S. Non-provisional Patent Application **14/391,856**, filed on **October 10, 2014**; and

**WHEREAS, UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN**, whose post office address is Belfield 4, Dublin, IE (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Inventions; the applications for patent identified above; the right to file applications for patent of the United States or other countries on the Inventions; any application for patent of the United States or other countries claiming priority to these applications; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

(a) the Invention(s);

(b) the application for patent identified above;

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified above or any

Attorney Docket No.: UCD-001/01US 29850/6  
application(s) for patent claiming the Invention(s), including any division(s),  
continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties,  
for prior infringements of any application for patent identified in the preceding  
paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be  
granted for or on any application for patent identified in the preceding paragraphs  
(b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the  
Assignee, for its own use and behalf and the use and behalf of its successors, legal  
representatives, and assigns, as fully and entirely as the same would have been held and  
enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal  
representatives, and assigns, that, at the time of execution and delivery of these presents,  
or if applicable, at such time said prior agreement was executed, the Assignor is a lawful  
owner of an undivided interest in the entire right, title, and interest in and to the  
Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation  
to assign in accordance with said prior agreement, and that the Assignor has good and full  
right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its  
successors, legal representatives, and assigns, that the Assignor will sign all papers and  
documents, take all lawful oaths, and do all acts necessary or required to be done in  
connection with any and all proceedings for the procurement, maintenance, enforcement  
and defense of the Invention(s), said applications, and said patents, including interference  
proceedings, without charge to the Assignee, its successors, legal representatives, and  
assigns, but at the cost and expense of the Assignee, its successors, legal representatives,  
and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of  
the United States to the Assignee for the sole use and behalf of the Assignee, its  
successors, legal representatives, and assigns.

Date: 27/11/14

By: B. Therese Kinsella, Ph.D.  
B. Therese Kinsella

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Patrick Guiry

Date: 27/11/14

By: Helen Reid  
Helen Reid

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Barry O'Connor

61798271

**ASSIGNMENT**

**WHEREAS** we, the below named inventors:

**B. Therese Kinsella, Patrick Guiry, Helen Reid, and Barry O'Connor**

hereinafter referred to as "Assignor" have made an invention(s) set forth in applications for patent entitled:

**THROMBOXANE RECEPTOR ANTAGONISTS**

for which we filed an international patent application having International Application Serial No. **PCT/IB2013/001258** and International Filing Date **April 17, 2013**, which application is now pending as U.S. Non-provisional Patent Application **14/391,856**, filed on **October 10, 2014**; and

**WHEREAS, UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN**, whose post office address is Belfield 4, Dublin, IE (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Inventions; the applications for patent identified above; the right to file applications for patent of the United States or other countries on the Inventions; any application for patent of the United States or other countries claiming priority to these applications; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified above;
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified above or any

Attorney Docket No.: UCD-001/01US 29850/6  
application(s) for patent claiming the Invention(s), including any division(s),  
continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties,  
for prior infringements of any application for patent identified in the preceding  
paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be  
granted for or on any application for patent identified in the preceding paragraphs  
(b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the  
Assignee, for its own use and behalf and the use and behalf of its successors, legal  
representatives, and assigns, as fully and entirely as the same would have been held and  
enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal  
representatives, and assigns, that, at the time of execution and delivery of these presents,  
or if applicable, at such time said prior agreement was executed, the Assignor is a lawful  
owner of an undivided interest in the entire right, title, and interest in and to the  
Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation  
to assign in accordance with said prior agreement, and that the Assignor has good and full  
right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its  
successors, legal representatives, and assigns, that the Assignor will sign all papers and  
documents, take all lawful oaths, and do all acts necessary or required to be done in  
connection with any and all proceedings for the procurement, maintenance, enforcement  
and defense of the Invention(s), said applications, and said patents, including interference  
proceedings, without charge to the Assignee, its successors, legal representatives, and  
assigns, but at the cost and expense of the Assignee, its successors, legal representatives,  
and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of  
the United States to the Assignee for the sole use and behalf of the Assignee, its  
successors, legal representatives, and assigns.

Attorney Docket No.: UCD-001/01US 29850/6

Date: \_\_\_\_\_

By: \_\_\_\_\_  
B. Therese Kinsella

Date: 17 Dec. 2014

By: \_\_\_\_\_  
*Patrick Guiry*  
Patrick Guiry

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Helen Reid

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Barry O'Connor

61798271



**ASSIGNMENT**

**WHEREAS** we, the below named inventors:

**B. Therese Kinsella, Patrick Guiry, Helen Reid, and Barry O'Connor**

hereinafter referred to as "Assignor" have made an invention(s) set forth in applications for patent entitled:

**THROMBOXANE RECEPTOR ANTAGONISTS**

for which we filed an international patent application having International Application Serial No. **PCT/IB2013/001258** and International Filing Date **April 17, 2013**, which application is now pending as U.S. Non-provisional Patent Application **14/391,856**, filed on **October 10, 2014**; and

**WHEREAS, UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN**, whose post office address is Belfield 4, Dublin, IE (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Inventions; the applications for patent identified above; the right to file applications for patent of the United States or other countries on the Inventions; any application for patent of the United States or other countries claiming priority to these applications; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified above;
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified above or any

Attorney Docket No.: UCD-001/01US 29850/6  
application(s) for patent claiming the Invention(s), including any division(s),  
continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties,  
for prior infringements of any application for patent identified in the preceding  
paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be  
granted for or on any application for patent identified in the preceding paragraphs  
(b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the  
Assignee, for its own use and behalf and the use and behalf of its successors, legal  
representatives, and assigns, as fully and entirely as the same would have been held and  
enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal  
representatives, and assigns, that, at the time of execution and delivery of these presents,  
or if applicable, at such time said prior agreement was executed, the Assignor is a lawful  
owner of an undivided interest in the entire right, title, and interest in and to the  
Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation  
to assign in accordance with said prior agreement, and that the Assignor has good and full  
right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its  
successors, legal representatives, and assigns, that the Assignor will sign all papers and  
documents, take all lawful oaths, and do all acts necessary or required to be done in  
connection with any and all proceedings for the procurement, maintenance, enforcement  
and defense of the Invention(s), said applications, and said patents, including interference  
proceedings, without charge to the Assignee, its successors, legal representatives, and  
assigns, but at the cost and expense of the Assignee, its successors, legal representatives,  
and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of  
the United States to the Assignee for the sole use and behalf of the Assignee, its  
successors, legal representatives, and assigns.

Date: \_\_\_\_\_

By: \_\_\_\_\_  
B. Therese Kinsella

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Patrick Guiry

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Helen Reid

Date: 1/12/2014

By: *Barry O'Connor*  
Barry O'Connor

61798271