

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4413902

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ADRIAN BRACKEN	08/05/2014
FIONA LANIGAN	08/05/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE PROVOST, FELLOWS, FOUNDATION SCHOLARS, & THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY & UNDIV. TRINITY OF QUEEN ELIZABETH, NEAR DUBLIN
<b>Street Address:</b>	COLLEGE GREEN
<b>City:</b>	DUBLIN
<b>State/Country:</b>	IRELAND
<b>Postal Code:</b>	02
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15511890
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)345-1300
<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>	
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<b>Correspondent Name:</b>	DAVID S. RESNICK
<b>Address Line 1:</b>	NIXON PEABODY LLP
<b>Address Line 2:</b>	100 SUMMER STREET
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<b>ATTORNEY DOCKET NUMBER:</b>	048262-089040-US
<b>NAME OF SUBMITTER:</b>	NICOLE D. KLING
<b>SIGNATURE:</b>	/Nicole D. Kling/
<b>DATE SIGNED:</b>	05/15/2017
<b>Total Attachments: 4</b>	
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**PATENT**

**REEL: 042379 FRAME: 0328**

Inventions related to A method of predicting risk recurrence of cancer "OncoMasTR"

### Assignment

This assignment is made the 5th day of August 2014 between Adrian Bracken, an Irish citizen of Clonbur house mews Martins Row, Chapelizod, Dublin 20 and of the School of Genetics & Microbiology, Trinity College Dublin, (called in the remainder of this document the Inventor) and the Provost, Fellows, Foundation Scholars and the other members of Board of the College of the Holy and Undivided Trinity of Queen Elizabeth, near Dublin (called in the remainder of this document "Trinity College").

WHEREAS the Inventor claims to be a true and first Inventor jointly with Fiona Lanigan, formerly of the School of Genetics & Microbiology and William Gallagher of the University College Dublin, National University of Ireland, of an invention relating to OncoMasTR, which invention was made in the course of the Inventor's work in a collaborative research programme in Trinity College;

AND WHEREAS the inventors, Adrian Bracken and Fiona Lanigan have agreed that the invention and all patent rights therein shall be held jointly by Trinity College and University College Dublin, National University of Ireland, this assignment witnesseth that in consideration of €5, the receipt of which is hereby acknowledged, and in consideration of a share in all the royalties which accrue net of legal costs to Trinity College from the invention, following payment of the agreed share to any contracted third parties (such royalties being apportioned between Trinity College and the three inventors according to the present Intellectual Property Regulations of Trinity College, and of which a copy has been received by the Inventor and is hereby acknowledged) **and of the inventors' share of the royalties it is hereby agreed that each of the three inventors will receive an equal portion;**

1. The Inventor hereby assigns to Trinity College all his share and interest in the invention, any improvements or modifications to the invention and any know-how relating to it, together with all the rights and interest in the same and all rights and powers to make application for patents in its own name, or jointly with others or in the joint names of Adrian Bracken, Fiona Lanigan, William Gallagher and Trinity College or in the name of their nominee in the Republic of Ireland or in any other country of the world in respect of the invention or improvements in or modifications thereof, together with all rights and benefits arising therefrom under the International Convention for the Protection of Industrial Property. The Inventor agrees that Trinity College may assign or licence the rights to any third parties of its choice for the purpose of commercialisation of the invention.
2. The Inventor hereby covenants with Trinity College that
  - (i) he will (so far as is necessary) permit and enable Trinity College Dublin to apply for and take all reasonable steps to assist Trinity College or its nominees or Licensees in obtaining the grant of patent or like protection jointly with him and Fiona Lanigan in respect of the invention assigned in this document, in any territory as may be required by Trinity College Dublin and
  - (ii) he will execute and do all documents and things as may be necessary for the purpose of paragraph 2(i) and to vest his share in any relevant

inventions and application for patent or know-how in Trinity College or its nominee or its assigns absolutely.

3. The Inventor hereby appoints Trinity College as his attorney in his name to execute and do any document act or thing which may be necessary to the grant of patent or like protection in its own name, jointly with others, or in its assigns' names to comply with the provisions of Paragraphs 1 and 2 above.

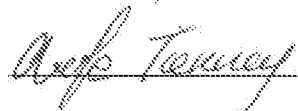
IN WITNESS whereof this assignment has been executed the day and year first printed herein

**Signed, sealed and delivered by**

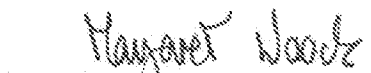
  
Adrian Bracken

**in the presence of:**

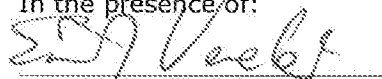
 Witness

 Witness

**Executed on behalf of Trinity College Dublin**

  
Dr Margaret Woods, Technology Transfer Manager, Trinity College Dublin

**In the presence of:**

 Witness

Inventions related to A method of predicting risk recurrence of cancer "OncoMasTR"

### Assignment

This assignment is made the 5th day of August 2014 between Fiona Lanigan, an Irish citizen of 29 Dale View, Ballybrack, Co. Dublin and formerly of the School of Genetics & Microbiology, Trinity College Dublin, (called in the remainder of this document the Inventor) and the Provost, Fellows, Foundation Scholars and the other members of Board of the College of the Holy and Undivided Trinity of Queen Elizabeth, near Dublin (called in the remainder of this document "Trinity College").

WHEREAS the Inventor claims to be a true and first Inventor jointly with Adrian Bracken, of the School of Genetics & Microbiology and William Gallagher of the University College Dublin, National University of Ireland, of an invention relating to OncoMasTR, which invention was made in the course of the Inventor's work in a collaborative research programme in Trinity College;

AND WHEREAS the inventors, Fiona Lanigan, Adrian Bracken have agreed that the invention and all patent rights therein shall be held jointly by Trinity College and University College Dublin, National University of Ireland, this assignment witnesseth that in consideration of €5, the receipt of which is hereby acknowledged, and in consideration of a share in all the royalties which accrue net of legal costs to Trinity College from the invention, following payment of the agreed share to any contracted third parties (such royalties being apportioned between Trinity College and the three inventors according to the present Intellectual Property Regulations of Trinity College, and of which a copy has been received by the Inventor and is hereby acknowledged) **and of the inventors' share of the royalties it is hereby agreed that each of the three inventors will receive an equal portion;**

1. The Inventor hereby assigns to Trinity College all his share and interest in the invention, any improvements or modifications to the invention and any know-how relating to it, together with all the rights and interest in the same and all rights and powers to make application for patents in its own name, or jointly with others or in the joint names of Fiona Lanigan, William Gallagher and Adrian Bracken and Trinity College or in the name of their nominee in the Republic of Ireland or in any other country of the world in respect of the invention or improvements in or modifications thereof, together with all rights and benefits arising therefrom under the International Convention for the Protection of Industrial Property. The Inventor agrees that Trinity College may assign or licence the rights to any third parties of its choice for the purpose of commercialisation of the invention.
2. The Inventor hereby covenants with Trinity College that
  - (i) she will (so far as is necessary) permit and enable Trinity College Dublin to apply for and take all reasonable steps to assist Trinity College or its nominees or Licensees in obtaining the grant of patent or like protection jointly with her and Adrian Bracken in respect of the invention assigned in this document, in any territory as may be required by Trinity College Dublin and
  - (ii) she will execute and do all documents and things as may be necessary for the purpose of paragraph 2(i) and to vest her share in any relevant

inventions and application for patent or know-how in Trinity College or its nominee or its assigns absolutely.

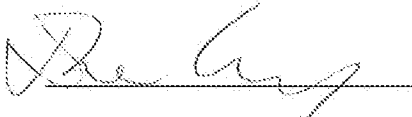
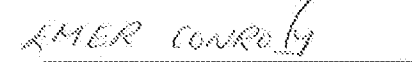
3. The Inventor hereby appoints Trinity College as her attorney in her name to execute and do any document act or thing which may be necessary to the grant of patent or like protection in its own name, jointly with others, or in its assigns' names to comply with the provisions of Paragraphs 1 and 2 above.

IN WITNESS whereof this assignment has been executed the day and year first printed herein

**Signed, sealed and delivered by**

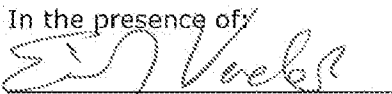
  
Fiona Lanigan

**in the presence of:**

 Witness  
 EMER CONROY Witness

**Executed on behalf of Trinity College Dublin**

  
Dr Margaret Woods, Technology Transfer Manager, Trinity College Dublin

In the presence of  
 Witness