

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ivan Coulter</td> <td>02/23/2012</td> </tr> <tr> <td>Bernard Francis McDonald</td> <td>02/23/2012</td> </tr> <tr> <td>Vincenzo Aversa</td> <td>02/23/2012</td> </tr> <tr> <td>Monica Rosa</td> <td>02/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Ivan Coulter	02/23/2012	Bernard Francis McDonald	02/23/2012	Vincenzo Aversa	02/23/2012	Monica Rosa	02/23/2012		
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<table border="1"> <tr> <td>Name:</td> <td>Sigmoid Pharma Limited</td> </tr> <tr> <td>Street Address:</td> <td>Invent Centre</td> </tr> <tr> <td>Internal Address:</td> <td>Dublin City University</td> </tr> <tr> <td>City:</td> <td>Dublin</td> </tr> <tr> <td>State/Country:</td> <td>IRELAND</td> </tr> <tr> <td>Postal Code:</td> <td>9</td> </tr> </table>		Name:	Sigmoid Pharma Limited	Street Address:	Invent Centre	Internal Address:	Dublin City University	City:	Dublin	State/Country:	IRELAND	Postal Code:	9
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PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13989372</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13989372								
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CORRESPONDENCE DATA													
<p>Fax Number: 5035955301  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 5035955300        Email: molly.edwards@klarquist.com        Correspondent Name: Wayne W. Rupert, Klarquist Sparkman, LLP        Address Line 1: 121 SW Salmon Street, Suite 1600        Address Line 2: One World Trade Center        Address Line 4: Portland, OREGON 97204</p>													
NAME OF SUBMITTER:	Wayne Rupert												
Signature:	/Wayne Rupert/												

Date:

05/24/2013

**Total Attachments: 4**

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THIS ASSIGNMENT IS MADE the 23<sup>rd</sup> day of February 2012

**BETWEEN**

1. (i) **Ivan Coulter**, of 11 St. Anne's, Northbrook Road, Ranelagh, Dublin 6, Ireland
- (ii) **Bernard Francis McDonald**, of Comaghy, Mullyash, Castleblayney, Co. Monaghan, Ireland
- (iii) **Vincenzo Aversa**, of 31 The Kilmore, Santry Cross, Santry Avenue, Dublin 9, Ireland
- (iv) **Monica Rosa**, of 49 Block C, The Old Distillery, Beresford Street, Dublin 7, Ireland

all of the foregoing jointly being referred to hereafter as "the Inventors", being of Sigmoid Pharma Limited, Invent Centre, Dublin City University, Dublin 9, Ireland; and

2. Sigmoid Pharma Limited ("Sigmoid Pharma"), an Irish company whose registered office is at Invent Centre, Dublin City University, Dublin 9, Ireland.

**Introduction**

- A. The Inventors are devisors of one or more inventions ("the Inventions") which is the subject of International Patent Application No. PCT/EP2011/071088 entitled "Immunomodulatory Compositions" and UK Patent Application No. GB 1020032.7 entitled "Compositions" ("the Applications").
- B. When the Inventors devised their contributions to the Inventions, Sigmoid Pharma was their employer and, pursuant to Irish Law, was entitled to the Inventions and the Applications.
- C. The parties to this assignment now wish to record their agreement to the inventorship position stated in Clause A and wish to effect assignment to Sigmoid Pharma of any and all right, title and interest to the Applications by action of this assignment.

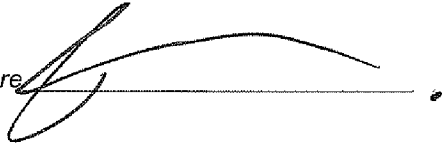
**Operative Clauses**

1. The Inventors and Sigmoid Pharma hereby confirm their belief that the Inventors are the sole devisors of the Inventions.
2. The Inventors and Sigmoid Pharma agree that, as between the Inventors and Sigmoid Pharma, the Inventions, the Applications and all related intellectual property rights (in particular the right to apply for and be granted patents for the Inventions in or for any part of the world, and the right to priority) are the property of Sigmoid Pharma pursuant to the Inventors' employment by Sigmoid Pharma, the circumstances of that employment and the operation of the law of the Republic of Ireland.

3. In consideration of the sum of €1.00 now paid by Sigmoid Pharma to each Inventor (receipt of which each of the Inventors hereby acknowledges) the Inventors hereby assign absolutely to Sigmoid Pharma any and all right, title and interest they have in and to the Inventions and the Applications and the full and exclusive benefit thereof, including without limitation any and all future international phase, national phase, regional phase, divisional, continuing, substitute, renewal, reissue and all other applications and patents which:
  - i. are derived directly or indirectly from the Applications; and/or
  - ii. claim priority from the Applications; and/or
  - iii. claim and/or disclose any one or more of the Inventions.
4. Ivan Coulter hereby irrevocably appoints Sigmoid Pharma as Attorney in his name and on his behalf to execute and do any instrument or thing as may be required by Sigmoid Pharma to enable Sigmoid Pharma to enjoy the full benefit of the rights assigned by this Assignment and in favour of any third party a certificate signed by any Officer of Sigmoid Pharma that any instrument or act falls within such authority shall be conclusive evidence that such is the case.
5. Bernard Francis McDonald hereby irrevocably appoints Sigmoid Pharma as his Attorney in his name and on his behalf to execute and do any instrument or thing as may be required by Sigmoid Pharma to enable Sigmoid Pharma to enjoy the full benefit of the rights assigned by this Assignment and in favour of any third party a certificate signed by any Officer of Sigmoid Pharma that any instrument or act falls within such authority shall be conclusive evidence that such is the case.
6. Vincenzo Aversa hereby irrevocably appoints Sigmoid Pharma as his Attorney in his name and on his behalf to execute and do any instrument or thing as may be required by Sigmoid Pharma to enable Sigmoid Pharma to enjoy the full benefit of the rights assigned by this Assignment and in favour of any third party a certificate signed by any Officer of Sigmoid Pharma that any instrument or act falls within such authority shall be conclusive evidence that such is the case.
7. Monica Rosa hereby irrevocably appoints Sigmoid Pharma as her Attorney in her name and on her behalf to execute and do any instrument or thing as may be required by Sigmoid Pharma to enable Sigmoid Pharma to enjoy the full benefit of the rights assigned by this Assignment and in favour of any third party a certificate signed by any Officer of Sigmoid Pharma that any instrument or act falls within such authority shall be conclusive evidence that such is the case.
8. This Agreement shall be governed by and interpreted in accordance with the law of the Republic of Ireland and the parties hereby submit to the non-exclusive jurisdiction of the courts of the Republic of Ireland.

IN WITNESS of which this Assignment has been executed and delivered the date and year first above written

Signed by Ivan Coulter  
in the presence of:

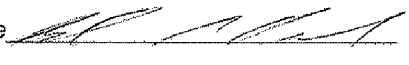
Signature 

Witness

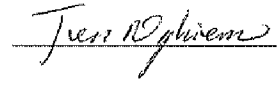
Signature 

Name: T.IEN NGHIEM  
Address: 17 Foxborough Court  
Lucan  
Co. Dublin  
Ireland

Signed by Bernard Francis McDonald  
in the presence of:

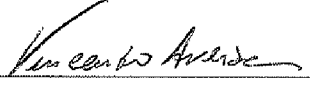
Signature 

Witness

Signature 

Name: T.IEN NGHIEM  
Address: 17 Foxborough Court  
Lucan  
Co. Dublin  
Ireland

Signed by Vincenzo Aversa  
in the presence of:

Signature 

Witness

Signature 

Name: T.IEN NGHIEM  
Address: 17 Foxborough Court  
Lucan  
Co. Dublin  
Ireland

Signed by Monica Rosa

Signature Monica Jones Rosa

in the presence of:

Witness

Signature

Tien NghiemName: ...T.IEN...NGHIEM...Address: ...17 Forborough Court  
Lucan  
Co. Dublin  
Ireland

Signed by Ivan Coulter,

Signature 

Director, for and on behalf of

Sigmoid Pharma Limited

Witness

Signature

Tien NghiemName: ...T.IEN...NGHIEM...Address: ...17 Forborough Court  
Lucan  
Co. Dublin  
Ireland