

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>Elise Leonore Isolde DIJKHUIZEN BORGART</td> <td>10/20/2012</td> </tr> <tr> <td>Madelon Sophia George Maria BRACKE</td> <td>10/17/2012</td> </tr> <tr> <td>Joost Dick DE BRUIJN</td> <td>10/29/2012</td> </tr> </tbody> </table>		Name	Execution Date	Elise Leonore Isolde DIJKHUIZEN BORGART	10/20/2012	Madelon Sophia George Maria BRACKE	10/17/2012	Joost Dick DE BRUIJN	10/29/2012		
Name	Execution Date										
Elise Leonore Isolde DIJKHUIZEN BORGART	10/20/2012										
Madelon Sophia George Maria BRACKE	10/17/2012										
Joost Dick DE BRUIJN	10/29/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>XPAND BIOTECHNOLOGY B.V.</td> </tr> <tr> <td>Street Address:</td> <td>Prof. Bronkhorstlaan 10</td> </tr> <tr> <td>City:</td> <td>Bilthoven</td> </tr> <tr> <td>State/Country:</td> <td>NETHERLANDS</td> </tr> <tr> <td>Postal Code:</td> <td>3723 MB</td> </tr> </table>		Name:	XPAND BIOTECHNOLOGY B.V.	Street Address:	Prof. Bronkhorstlaan 10	City:	Bilthoven	State/Country:	NETHERLANDS	Postal Code:	3723 MB
Name:	XPAND BIOTECHNOLOGY B.V.										
Street Address:	Prof. Bronkhorstlaan 10										
City:	Bilthoven										
State/Country:	NETHERLANDS										
Postal Code:	3723 MB										
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>13697346</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13697346						
Property Type	Number										
Application Number:	13697346										
CORRESPONDENCE DATA											
<p>Fax Number: 8587205125 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (858) 720-5112 Email: gsarda@mofo.com Correspondent Name: Kate H. Murashige Address Line 1: Morrison & Foerster LLP Address Line 2: 12531 High Bluff Drive, Suite 100 Address Line 4: San Diego, CALIFORNIA 92130-2040</p>											
ATTORNEY DOCKET NUMBER:	313632014800										
NAME OF SUBMITTER:	Kate H. Murashige										
<p>Total Attachments: 4 source=313632014800 ASSIGNMENT#page1.tif source=313632014800 ASSIGNMENT#page2.tif source=313632014800 ASSIGNMENT#page3.tif source=313632014800 ASSIGNMENT#page4.tif</p>											

CH \$40.00 13697346

**ASSIGNMENT
JOINT**

THIS ASSIGNMENT, by Elise Leonore Isolde DIJKHUIZEN BORGART, residing at Nijpelsplantsoen 77, 3431 SG Nieuwegein, Netherlands; Madelon Sophia George Maria BRACKE, residing at Oranje Nassaulaan 29, 3708 GA Zeist, Netherlands and Joost Dick DE BRUIJN, residing at Pasteurstraat 16, 3817 JL Amersfoort, Netherlands;(hereinafter referred to as the assignors), witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in EXPANSION OF CELLS IN A DISPOSABLE BIOREACTOR set forth in an application for Letters Patent of the United States, bearing Serial No 13/697,346 and having an international filing date of 11 May 2011; and

WHEREAS, Xpand Biotechnology B.V., a company duly organized under and pursuant to the laws of The Netherlands and having its principal place of business at Prof. Bronkhorstlaan 10, 3723 MB Bilthoven, Netherlands (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:


NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

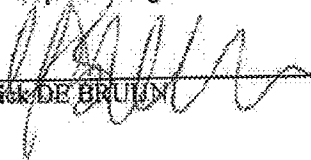
AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be

obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

20 Oct 12
Date 
Elise Leonore Isolde DIKHUIZEN BORGART

Date _____ Madelon Sophia George Maria BRACKE

29 Oct 2012
Date 
Joost Dirk DE BRUIN

**ASSIGNMENT
JOINT**

THIS ASSIGNMENT, by Elise Leonore Isolde DIJKHUIZEN BORGART, residing at Nijpelsplantsoen 77, 3431 SG Nieuwegein, Netherlands; Madelon Sophia George Maria BRACKE, residing at Oranje Nassaulaan 29, 3708 GA Zeist, Netherlands and Joost Dick DE BRUIJN, residing at Pasteurstraat 16, 3817 JL Amersfoort, Netherlands; (hereinafter referred to as the assignors), witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in EXPANSION OF CELLS IN A DISPOSABLE BIOREACTOR set forth in an application for Letters Patent of the United States, bearing Serial No 13/697,346 and having an international filing date of 11 May 2011; and

WHEREAS, Xpand Biotechnology B.V., a company duly organized under and pursuant to the laws of The Netherlands and having its principal place of business at Prof. Bronkhorstlaan 10, 3723 MB Bilthoven, Netherlands (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be

obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

Date Elise Leonore Isolde DIJKHUIZEN BORGART

17 Oct 12 M Brack
Date Madelon Sophia George Maria BRACKE

Date Joost Dick DE BRUIJN