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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5258401

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| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the APPLICATION NO. 14/900820 previously recorded on Reel 037529 Frame 0896. Assignor(s) hereby confirms the ASSIGNMENT. |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NIKOLAUS GRIGORIEFF | 05/07/2014 |
| RECEIVING PARTY DATA | |
| Name: | HOWARD HUGHES MEDICAL INSTITUTE |
| Street Address: | 4000 JONES BRIDGE ROAD |
| City: | CHEVY CHASE |
| State/Country: | MARYLAND |
| Postal Code: | 20815 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14900829 |
| CORRESPONDENCE DATA | |
| Fax Number: | (617)535-3800 |
| <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> | |
| Phone: | 617-535-4453 |
| Email: | lpenta@mwe.com, ipdocketmwe@mwe.com |
| Correspondent Name: | MCDERMOTT WILL & EMERY |
| Address Line 1: | 28 STATE STREET |
| Address Line 4: | BOSTON, MASSACHUSETTS 02109-1775 |
| ATTORNEY DOCKET NUMBER: | 081722-0580 |
| NAME OF SUBMITTER: | LINDA M. PENTA |
| SIGNATURE: | /Linda M. Penta/ |
| DATE SIGNED: | 11/29/2018 |
| Total Attachments: 3 | |
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| source=GrigorieffAssignment#page1.tif | |
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3702407

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|---|---------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NIKOLAUS GRIGORIEFF | 05/07/2014 |
| RECEIVING PARTY DATA | |
| Name: | HOWARD HUGHES MEDICAL INSTITUTE |
| Street Address: | 4000 JONES BRIDGE ROAD |
| City: | CHEVY CHASE |
| State/Country: | MARYLAND |
| Postal Code: | 20815 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14900820 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)756-8087 |
| <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> | |
| Phone: | (202) 756-8000 |
| Email: | mmolchan@mwe.com |
| Correspondent Name: | MCDERMOTT WILL & EMERY LLP |
| Address Line 1: | 500 NORTH CAPITAL STREET, N.W. |
| Address Line 2: | THE MCDERMOTT BUILDING |
| Address Line 4: | WASHINGTON, D.C. 20001 |
| ATTORNEY DOCKET NUMBER: | 081722-0580 |
| NAME OF SUBMITTER: | ROBERT H. UNDERWOOD |
| SIGNATURE: | /Robert H. Underwood/ |
| DATE SIGNED: | 01/20/2016 |
| Total Attachments: 3 | |
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| source=Brandeis#page2.tif | |
| source=Brandeis#page3.tif | |

ASSIGNMENT

PARTIES:

- (1) Howard Hughes Medical Institute, 4000 Jones Bridge Road, Chevy Chase, MD 20815 ("ASSIGNOR")
- (2) Nikolaus Grigorieff, 19070 Coton Farm Court, Leesburg, VA 20176 ("Dr. Grigorieff")
- (3) Brandeis University, 415 South Street, Waltham, Massachusetts 02454-9110 ("ASSIGNEE")

RECITALS:

- A. The ASSIGNEE is the applicant in respect of European patent application number 13175637.1 filed on 8th July 2013 entitled *Rotavirus particles with chimeric surface proteins* (the "APPLICATION").
- B. Dr. Grigorieff is one of the inventors in respect of the invention which is the subject of the APPLICATION (the "INVENTION") and made his contribution to the INVENTION during the course of and as part of his normal duties as an employee of the ASSIGNOR and in circumstances such that the ASSIGNOR became legally and beneficially entitled to and owner of all Dr. Grigorieff's rights in the INVENTION.
- C. The ASSIGNEE is entitled to the ASSIGNOR's rights in the invention by virtue of an Agreement between the ASSIGNOR and the ASSIGNEE dated 15th June 1989 (the "Collaboration Agreement").
- D. The ASSIGNOR has appointed Dr. Grigorieff as its agent to assign the ASSIGNOR's rights in the invention to the ASSIGNEE.
- E. The parties have agreed to execute this agreement for the purposes of assigning to the ASSIGNEE all the ASSIGNOR's rights in the INVENTION including the right to have filed the APPLICATION in the ASSIGNEE's own name in respect of Dr. Grigorieff's contribution to the INVENTION.

OPERATIVE TERMS:

In consideration of the sum of US\$1 (one U.S. dollar) paid by the ASSIGNEE to the ASSIGNOR (the receipt and sufficiency of which are hereby acknowledged) IT IS AGREED as follows:

1. Assignment

1.1 Subject to the terms and conditions of the Collaboration Agreement, including ASSIGNOR's retained research use license, the ASSIGNOR hereby assigns to the ASSIGNEE absolutely and free from all other liens charges, licences and encumbrances, and the ASSIGNEE hereby accepts all the ASSIGNOR's property right title and interest anywhere in the world in and to the INVENTION, including without limitation:

- (a) the APPLICATION and all patent applications and patents which may now or at any time in the future derive or claim priority from the same or otherwise relate to the INVENTION including all divisionals, continuations, reissues, extensions, supplementary protection certificates, renewals and registrations in relation to any thereof and all and any other rights in the INVENTION (the "PATENT RIGHTS"), including the right to apply for any of the same;
- (b) the benefit of all priority rights, including the right to claim priority from the APPLICATION;
- (c) the right to seek and obtain registrations in other countries;
- (d) all other intellectual property rights and know-how including without limitation any copyrights and design rights (whether or not registrable) relating in any way to the INVENTION;
- (e) the right to sue for and obtain injunctive relief, damages and all other relief in respect of any infringement or misuse (whether past, present or future) of any of the rights hereby transferred.

2. Covenants

Dr. Grigorieff covenants with the ASSIGNEE to keep the INVENTION confidential and not to disclose it to any person without the prior written consent of the ASSIGNEE.

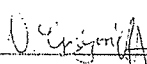
3. Further Assurance

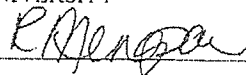
3.1 The ASSIGNOR and Dr. Grigorieff agree to execute any further documents and do all things at the ASSIGNEE's expense which the ASSIGNEE may reasonably require in order to ensure the vesting in the ASSIGNEE (or the ASSIGNEE's successors in title or nominees, as the case may be) of all property rights titles and interests intended to

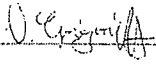
be assigned, transferred or granted to or otherwise confirmed in the ASSIGNEE hereunder (including the PATENT RIGHTS) and to give the ASSIGNEE the full benefit of this Agreement, including doing all acts which may be necessary or desirable in connection with:

- (a) the prosecution of the APPLICATION and the filing and prosecution of any further patent applications anywhere in the world and obtaining grant in relation thereto;
- (b) protecting and enforcing the APPLICATION and any patents or patent applications and other intellectual property rights relating to the INVENTION;
- (c) recording any such patent applications, patents and other rights in the name of the ASSIGNEE or the ASSIGNEE's successors in title or nominees as sole applicant or registered proprietor, as the case may be;
- (d) assisting in the resolution of any question concerning the INVENTION or any of the PATENT RIGHTS or other intellectual property rights relating to the INVENTION.

IN WITNESS of which the parties have executed this Assignment in accordance with their statutes by duly authorised officers as of the date of the later of the parties' signatures.

EXECUTED by the ASSIGNOR
HOWARD HUGHES MEDICAL INSTITUTE
 as agent for the Howard
 Signature:  Hughes Medical Institute
 Name: Nikolaus Grigorieff
 Title: Laboratory Head
 Date: May 7, 2014

EXECUTED by the ASSIGNEE
BRANDEIS UNIVERSITY
 Signature: 
 Name: _____
 Title: _____
 Date: May 1, 2014

EXECUTED BY:
DR. NIKOLAUS GRIGORIEFF
 Signature: 
 Date: May 7, 2014

Rebecca Menapace
 Associate Provost for Innovation
 Executive Director, OTL

Brandeis University
 Office of Technology Licensing
 415 South Street, MS115
 Waltham, MA 02453-2728