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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5096868

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                   |
| <b>CONVEYING PARTY DATA</b>   |                              |
| <b>Name</b>   | <b>Execution Date</b>        |
| REPLIGEN CORPORATION  | 03/12/2014                   |
| <b>RECEIVING PARTY DATA</b>   |                              |
| <b>Name:</b>  | BIOMARIN PHARMACEUTICAL INC. |
| <b>Street Address:</b>  | 105 DIGITAL DRIVE            |
| <b>City:</b>  | NOVATO                       |
| <b>State/Country:</b>   | CALIFORNIA                   |
| <b>Postal Code:</b>   | 94949                        |
| <b>PROPERTY NUMBERS Total: 1</b>  |                              |
| <b>Property Type</b>  | <b>Number</b>                |
| <b>Application Number:</b>  | 16046304                     |
| <b>CORRESPONDENCE DATA</b>  |                              |
| <b>Fax Number:</b>  | (312)474-0448                |
| <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>   | 3124746300                   |
| <b>Email:</b>   | docket@marshallip.com        |
| <b>Correspondent Name:</b>  | WALESKA SALGADO              |
| <b>Address Line 1:</b>  | 233 SOUTH WACKER DRIVE       |
| <b>Address Line 2:</b>  | SUITE 6300                   |
| <b>Address Line 4:</b>  | CHICAGO, ILLINOIS 60606      |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 30610/40059C4 (2)            |
| <b>NAME OF SUBMITTER:</b>   | SHELLEY DANEK                |
| <b>SIGNATURE:</b>   | /Shelley Danek/              |
| <b>DATE SIGNED:</b>   | 08/14/2018                   |
| <b>Total Attachments: 3</b>   |                              |
| source=30610_40059C4_Executed_Assignment_Repligen_To_BioMarin#page1.tif   |                              |
| source=30610_40059C4_Executed_Assignment_Repligen_To_BioMarin#page2.tif   |                              |
| source=30610_40059C4_Executed_Assignment_Repligen_To_BioMarin#page3.tif   |                              |

Assignment Agreement

This assignment agreement ("Assignment") is entered into between Repligen Corporation ("Assignor"), having a place of business at 41 Seyon Street, Building #1, Suite 100, Waltham, Massachusetts, and BioMarin Pharmaceutical Inc. ("Assignee"), a corporation incorporated in the state of Delaware, having its principal place of business at 105 Digital Drive, Novato, CA 94949 ("Assignee"). This Assignment is effective as of January 21, 2014.

For good and valuable consideration previously received, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign and transfer unto Assignee all of its right, title and interest in and to the patents and patent applications listed in Exhibit A hereto (collectively "Patents"), the inventions described in the Patents, and any U.S. or foreign applications or patents based or granted on said inventions, or any parts thereof, and any U.S. or foreign applications, or patents claiming priority based on the Patents, including continuations, continuations in part, divisions, reexaminations, reissues, inter partes reexaminations, post grant reviews, substitutes, renewals or extensions of any of the foregoing, including all rights of priority under the International Convention for the Protection of Industrial Property, and all rights to sue for damages and other remedies in respect of any infringement of such U.S. or foreign applications or patents or other acts within the scope of the claims of any published specifications of such U.S. or foreign applications.

The undersigned signing on behalf of Repligen Corporation warrants s/he is authorized to execute this document on behalf of Repligen Corporation.

IN WITNESS WHEREOF, the parties hereto have executed and delivered this Assignment.

On behalf of Repligen Corporation:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

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

WITNESSES:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

**ACKNOWLEDGEMENT BY ASSIGNEE**

BioMarin Pharmaceutical Inc. hereby acknowledges receipt of this assignment, for good and valuable consideration, of Patent Rights listed in Schedule A.

BioMarin Pharmaceutical Inc.

By: Jim Bigorna

Name: Luisa Bigorna

Title: VP, Intellectual Property

Schedule A

| WO (Family) Number                       | F&R #         | STATUS    | APPLN #    | FILED     | PATENT #       | ISSUED    | TITLE  |
|--|---------------|-----------|------------|-----------|----------------|-----------|--|
| WO2009055675<br>(Methods of Identifying) | 00231-0124AU1 | PENDING   | 2008316667 | 24-Oct-08 |                |           | METHODS OF IDENTIFYING HISTONE DEACETYLASE INHIBITORS USEFUL FOR           |
|  | 00231-0124CA1 | PENDING   | 2703742    | 24-Oct-08 |                |           | METHODS OF IDENTIFYING HISTONE DEACETYLASE INHIBITORS USEFUL FOR           |
|  | 00231-0124DE1 | ISSUED    | 08841518.7 | 24-Oct-08 | 602008016577.9 | 20-Jun-12 | METHODS OF IDENTIFYING HISTONE DEACETYLASE INHIBITORS USEFUL FOR           |
|  | 00231-0124FR1 | ISSUED    | 08841518.7 | 24-Oct-08 | 2214483        | 20-Jun-12 | METHODS OF IDENTIFYING HISTONE DEACETYLASE INHIBITORS USEFUL FOR           |
|  | 00231-0124GB1 | ISSUED    | 08841518.7 | 24-Oct-08 | 2214483        | 20-Jun-12 | METHODS OF IDENTIFYING HISTONE DEACETYLASE INHIBITORS USEFUL FOR           |
| WO2010028192<br>(RG2833)                 | 00231-0127AU1 | PENDING   | 2009289649 | 03-Sep-09 |                |           | COMPOSITIONS INCLUDING 6-AMINOHEXANOIC ACID DERIVATIVES AS HDAC INHIBITORS |
|  | 00231-0127CA1 | PENDING   | 2735593    | 03-Sep-09 |                |           | COMPOSITIONS INCLUDING 6-AMINOHEXANOIC ACID DERIVATIVES AS HDAC INHIBITORS |
|  | 00231-0127EP1 | PUBLISHED | 09812248.4 | 03-Sep-09 |                |           | COMPOSITIONS INCLUDING 6-AMINOHEXANOIC ACID DERIVATIVES AS HDAC INHIBITORS |
|  | 00231-0127US1 | PUBLISHED | 13/062,030 | 12-Dec-11 |                |           | COMPOSITIONS INCLUDING 6-AMINOHEXANOIC ACID DERIVATIVES AS HDAC INHIBITORS |
|  | 00231-0143AU1 | PENDING   | N/A        | 28-Feb-12 |                |           | HISTONE DEACETYLASE INHIBITORS   |
| WO2012118782<br>(RG3250)                 | 00231-0143CA1 | PENDING   | N/A        | 28-Feb-12 |                |           | HISTONE DEACETYLASE INHIBITORS   |
|  | 00231-0143EP1 | PENDING   | N/A        | 28-Feb-12 |                |           | HISTONE DEACETYLASE INHIBITORS   |
|  | 00231-0143JP1 | PENDING   | N/A        | 28-Feb-12 |                |           | HISTONE DEACETYLASE INHIBITORS   |
|  | 00231-0143US1 | PENDING   | 13/823,708 | 14-Mar-13 |                |           | HISTONE DEACETYLASE INHIBITORS   |
|  | 00231-0153001 | PENDING   | 13/843,261 | 15-Mar-13 |                |           | HISTONE DEACETYLASE INHIBITORS   |
| March/Aug Provisionals<br>(1087/1088)    | 9023-0152P01  | PENDING   | 61/800,170 | 15-Mar-13 |                |           | HDAC INHIBITORS  |
|  | 00231-0152P02 | PENDING   | 61/863,235 | 07-Aug-13 |                |           | HDAC INHIBITORS  |