

## 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>Daniel I. Oppenheimer</td> <td>01/14/2010</td> </tr> <tr> <td>Alejandro Dorenbaum</td> <td>12/22/2009</td> </tr> <tr> <td>Augustus Okhamafe</td> <td>12/18/2009</td> </tr> <tr> <td>Eric Foehr</td> <td>12/17/2009</td> </tr> <tr> <td>Sianna Castillo</td> <td>12/18/2009</td> </tr> <tr> <td>Paul John Kostel</td> <td>12/18/2009</td> </tr> </tbody> </table>		Name	Execution Date	Daniel I. Oppenheimer	01/14/2010	Alejandro Dorenbaum	12/22/2009	Augustus Okhamafe	12/18/2009	Eric Foehr	12/17/2009	Sianna Castillo	12/18/2009	Paul John Kostel	12/18/2009
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>BioMarin Pharmaceutical Inc.</td> </tr> <tr> <td>Street Address:</td> <td>105 Digital Drive</td> </tr> <tr> <td>City:</td> <td>Novato</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94949</td> </tr> </table>		Name:	BioMarin Pharmaceutical Inc.	Street Address:	105 Digital Drive	City:	Novato	State/Country:	CALIFORNIA	Postal Code:	94949				
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CORRESPONDENCE DATA															
<p>Fax Number: (415)506-6546</p> <p>Phone: 4155066709</p> <p>Email: aprodomou@bmr.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Luisa Bigornia</p> <p>Address Line 1: 105 Digital Drive</p> <p>Address Line 4: Novato, CALIFORNIA 94949</p>															
NAME OF SUBMITTER:	Alicia Prodromou														

CH \$40.00 13299499

**Total Attachments: 4**

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## ASSIGNMENT

US Serial No. 60/922,821  
US Serial No. 12/577,509  
Australian Serial No. 2008240259  
Brazilian application based upon PCT/US2008/60041  
Canadian application based upon PCT/US2008/60041  
Chinese application based upon PCT/US2008/60041  
European Serial No. 08745614.1

Indian Serial No. 7278/DELNP/2009  
Israeli Serial No. 201101  
Japanese application based upon PCT/US2008/60041  
Mexican application based upon PCT/US2008/60041  
PCT Serial No. US2008/60041  
Russian application based upon PCT/US2008/60041  
South Korean application based upon PCT/US2008/60041

Title: METHODS OF ADMINISTERING TETRAHYDROBIOPTERIN,  
ASSOCIATED COMPOSITIONS, AND METHODS OF MEASURING

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign to BIOMARIN PHARMACEUTICAL INC., 105 Digital Drive, Novato, California 94949 (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for letters patent of the United States, and in said application and any and all other applications, both in the United States and in other countries, which the undersigned may file or be named as an inventor, either solely or jointly with others, on said invention or improvements, and in any and all letters patent of the United States and other countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner for Patents to issue said letters patent to said Assignee.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned except in favor of Assignee.

For said consideration the undersigned hereby agree, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all applications on said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any letters patent that may be granted upon any and all of said applications, and any and all applications and other documents for letters patent in other countries on said invention or improvements, that said Assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said Assignee, its successors or assigns, in the event of any application or letters patent assigned herein becoming involved in Interference or Opposition, to cooperate to the best of the ability of the undersigned with said Assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said letters patent, both in the United States and in other countries, and vest all rights therein hereby conveyed in said Assignee, its successors and assigns, whereby said letters patent will be held and enjoyed by said Assignee, its successors and assigns, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS my hand this

14th day of January, 2010

Daniel I. Oppenheimer  
Daniel I. Oppenheimer

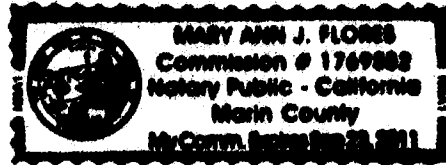
STATE OF CALIFORNIA

COUNTY OF Marin

On Jan 14, 2010 before me, Mary Ann J. Flores, Notary Public, personally appeared Daniel I. Oppenheimer, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Mary Ann J. Flores  
Signature of Notary Public

(Seal)

WITNESS my hand this

22 day of December, 2009

Alejandro Dorenbaum  
Alejandro Dorenbaum

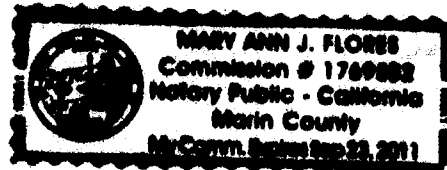
STATE OF CALIFORNIA

COUNTY OF Marin

On Dec 22, 2009 before me, Mary Ann J. Flores, Notary Public, personally appeared Alejandro Dorenbaum, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Mary Ann J. Flores  
Signature of Notary Public

(Seal)

WITNESS my hand this

18<sup>th</sup> day of December, 2009.

Augustus Okhamafe  
Augustus Okhamafe

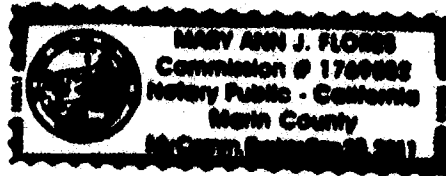
STATE OF CALIFORNIA )

COUNTY OF Marin )

On Dec 18, 2009 before me, Mary Ann J. Flores, Notary Public, personally appeared Augustus Okhamafe, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.



Mary Ann J. Flores  
Signature of Notary Public

(Seal)

WITNESS my hand this

17 day of December, 2009.

Eric Foehr  
Eric Foehr

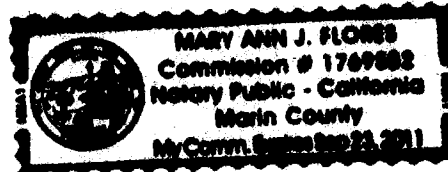
STATE OF CALIFORNIA )

COUNTY OF Marin )

On Dec 17, 2009 before me, Mary Ann J. Flores, Notary Public, personally appeared Eric Foehr, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.



Mary Ann J. Flores  
Signature of Notary Public

(Seal)

WITNESS my hand this

18 day of Dec, 2009

Sianna Castillo  
Sianna Castillo

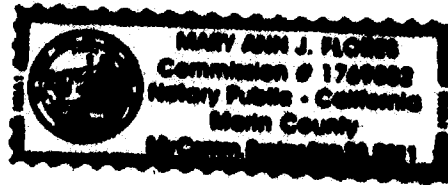
STATE OF CALIFORNIA )

COUNTY OF Marin )

On Dec 18, 2009 before me, Mary Ann J. Flores, Notary Public, personally appeared Sianna Castillo, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Mary Ann J. Flores  
Signature of Notary Public

(Seal)

WITNESS my hand this

18 day of December, 2009

Paul John Kostel  
Paul John Kostel

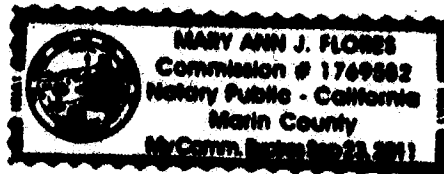
STATE OF CALIFORNIA )

COUNTY OF Marin )

On Dec 18, 2009 before me, Mary Ann J. Flores, Notary Public, personally appeared Paul John Kostel, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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Mary Ann J. Flores  
Signature of Notary Public

(Seal)