

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Zachary Shriver previously recorded on Reel 022976 Frame 0421. Assignor(s) hereby confirms the Zachary Shriver.

**CONVEYING PARTY DATA**

Name	Execution Date
Brian Edward Collins	06/03/2009
Carlos J. Bosques	02/02/2009
Xiangping Zhu	01/12/2009
Dorota A. Bulik	05/28/2009
Lakshmanan Thiruneelakantapillai	01/30/2009
Zachary Shriver	02/03/2009
Ganesh Venkataraman	05/28/2009
Rajeev Chillakuru	06/02/2009

**RECEIVING PARTY DATA**

<b>Name:</b>	Momenta Pharmaceuticals, Inc.
<b>Street Address:</b>	675 West Kendall Street
<b>City:</b>	Cambridge
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02142

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>PCT Number:</b>	US0860355

**CORRESPONDENCE DATA**

Fax Number: (617)502-5002  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 617-248-5000  
 Email: patentdocket@choate.com  
 Correspondent Name: Choate Hall & Stewart LLP  
 Address Line 1: 2 International Place  
 Address Line 4: Boston, MASSACHUSETTS 02110

OP \$40.00 US0860355

ATTORNEY DOCKET NUMBER:	2007774-0027
NAME OF SUBMITTER:	Brenda Herschbach Jarrell, PhD, JD
Total Attachments: 12 source=CorrectiveAssignment#page1.tif source=CorrectiveAssignment#page2.tif source=CorrectiveAssignment#page3.tif source=CorrectiveAssignment#page4.tif source=CorrectiveAssignment#page5.tif source=CorrectiveAssignment#page6.tif source=CorrectiveAssignment#page7.tif source=CorrectiveAssignment#page8.tif source=CorrectiveAssignment#page9.tif source=CorrectiveAssignment#page10.tif source=CorrectiveAssignment#page11.tif source=CorrectiveAssignment#page12.tif	

TO: BRENDA HERSCHBACH JARREL COMPANY: TWO INTERNATIONAL P L L C

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.107/20/2009  
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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>Brian Edward Collins</td> <td>06/03/2009</td> </tr> <tr> <td>Carlos J. Bosques</td> <td>02/02/2009</td> </tr> <tr> <td>Xiangping Zhu</td> <td>01/12/2009</td> </tr> <tr> <td>Dorota A. Bulik</td> <td>05/28/2009</td> </tr> <tr> <td>Lakshmanan Thiruneelakantapillai</td> <td>01/30/2009</td> </tr> <tr> <td>Zachary Schriver</td> <td>02/03/2009</td> </tr> <tr> <td>Ganesh Venkataraman</td> <td>05/28/2009</td> </tr> <tr> <td>Rajeev Chillakuru</td> <td>06/02/2009</td> </tr> </tbody> </table>		Name	Execution Date	Brian Edward Collins	06/03/2009	Carlos J. Bosques	02/02/2009	Xiangping Zhu	01/12/2009	Dorota A. Bulik	05/28/2009	Lakshmanan Thiruneelakantapillai	01/30/2009	Zachary Schriver	02/03/2009	Ganesh Venkataraman	05/28/2009	Rajeev Chillakuru	06/02/2009
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OP \$40.00 US0860355

TO: BRENDA HERSCHBACH JARRELL COMPANY: TWO INTERNATIONAL P E

ATTORNEY DOCKET NUMBER:	2007774-0027
NAME OF SUBMITTER:	Brenda Herschbach Jarrell
<b>Total Attachments: 6</b> source=2007774-0027_Assignment#page1.tif source=2007774-0027_Assignment#page2.tif source=2007774-0027_Assignment#page3.tif source=2007774-0027_Assignment#page4.tif source=2007774-0027_Assignment#page5.tif source=2007774-0027_Assignment#page6.tif	

## ASSIGNMENT

For good and valuable consideration the sufficiency and receipt of which is hereby acknowledged, we the undersigned **Brian Edward Collins**, 30 Country Club Drive, Arlington, MA 02474, **Carlos J. Bosques**, 40 Brattle Street, Unit 7, Arlington, MA 02476, **Xiangping Zhu** of 20 Valley Drive, North Grafton, MA 01536, **Dorota A. Bulik**, 17 Churchill Road, Winchester, MA 01890, **Lakshmanan Thiruneelakantapillai**, 7 Oceanview Drive, Apt. 505, Boston, MA 02125, **Zachary Shriver**, 16 Fairmont Avenue, Cambridge, MA 02139, **Rajeev Chillakuru**, 157 Sixth Street, Apt. 204, Cambridge, MA 02142 and **Ganesh Venkataraman**, 215 Concord Road, Bedford, MA 01730 hereby

Sell, assign and transfer to **Momenta Pharmaceuticals, Inc.**, having a place of business at **675 West Kendall Street, Cambridge, MA 02142, USA**, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, his/her entire right, title and interest for the United States and all foreign countries; in and to any and all inventions which are disclosed in the application for United States Letters Patent entitled **METHODS RELATED TO CELL SURFACE GLYCOSYLATION** filed **April 15, 2008**, and given serial number **PCT/US2008/060355**, in and to said application and all divisional, continuing, substitute, renewal, reissue, reexamination or other application for Letters Patent which has been or shall be filed in the United States or any foreign country on any of said inventions, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name and when requested, without charge to but at the expense of said ASSIGNEE, agrees to carry out in good faith the intent and purpose of this Assignment by executing all divisional, continuing, substitute, renewal, reissue, reexamination and all other patent applications on any and all said inventions; by executing all rightful declarations, oaths, assignments and other papers; by communicating to said ASSIGNEE all facts known to him/her relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE. Each of the undersigned also hereby appoints ASSIGNEE as its common agent for purposes of prosecuting international patent applications and any material patent applications for which such common agency is recognized.

Hereby request the Honorable Director of the United States Patent and Trademark Office to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by him/her, and that full right to convey the same as herein expressed is possessed by him/her.

[Signature]  
Name: Rajeev Chillakura

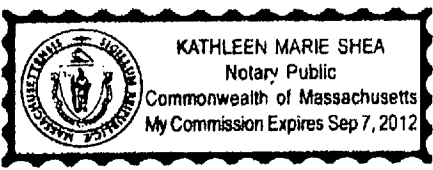
6/2/2009  
Date

COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this 3<sup>rd</sup> day of June, 2009, before me, the undersigned notary public, personally appeared Rajeev Chillakura, and proved to me through satisfactory evidence of identification, which consisted of personal ID card, to be the person whose name is signed above in my presence.



[Notary's Seal Here]

NOTARY PUBLIC

Kathleen Marie Shea

My Commission Expires: Sept. 7, 2012

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

\_\_\_\_\_  
Date

COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this \_\_\_\_\_ day of \_\_\_\_\_, 200\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_, and proved to me through satisfactory evidence of identification, which consisted of \_\_\_\_\_, to be the person whose name is signed above in my presence.

NOTARY PUBLIC

[Notary's Seal Here]

\_\_\_\_\_  
My Commission Expires:

Brian Edward Collins  
Name: Brian Edward Collins

June 3, 2009  
Date

COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this 3rd day of June, 2009, before me, the undersigned notary public, personally appeared Brian Edward Collins, and proved to me through satisfactory evidence of identification, which consisted of Massachusetts Driver's License, to be the person whose name is signed above in my presence.

NOTARY PUBLIC

Ann M. Saitta  
ANN M. SAITTA

[Notary's Seal Here]

My Commission Expires: June 11, 2015

Carlos J. Bosques  
Name: Carlos J. Bosques

February 2, 2009  
Date

COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this 2nd day of February, 2009, before me, the undersigned notary public, personally appeared Carlos J. Bosques, and proved to me through satisfactory evidence of identification, which consisted of Massachusetts Driver's License, to be the person whose name is signed above in my presence.

NOTARY PUBLIC

Ann M. Saitta  
ANN M. SAITTA

[Notary's Seal Here]

My Commission Expires: June 11, 2015

Attorney Docket No.: 2007774-0027

Xiangping Zhu

Name: Xiangping Zhu

12 Jan 09

Date

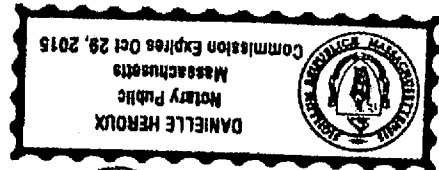
COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF Worcester

On this 12 day of January, 2009, before me, the undersigned notary public, personally appeared Xiangping Zhu, and proved to me through satisfactory evidence of identification, which consisted of MA drivers license S79017317 ex 2/11/2013 to be the person whose name is signed above in my presence.

NOTARY PUBLIC



[Signature]

[Notary's Seal Here]

My Commission Expires: October 29, 2015

Dorota Bulik

Name: Dorota A. Bulik

28 May 2009

Date

COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this 28<sup>th</sup> day of May, 2009, before me, the undersigned notary public, personally appeared Dorota A. Bulik, and proved to me through satisfactory evidence of identification, which consisted of Massachusetts Driver's License, to be the person whose name is signed above in my presence.

NOTARY PUBLIC

[Signature]

ANN M. SAITTA

My Commission Expires: June 11, 2015

[Notary's Seal Here]

Attorney Docket No.: 2007774-0027



Name: Lakshmanan Thiruneelakantapillai

01-30-2009

Date

COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this 30<sup>th</sup> day of January, 2009, before me, the undersigned notary public, personally appeared Lakshmanan Thiruneelakantapillai, and proved to me through satisfactory evidence of identification, which consisted of Massachusetts Driver's License, to be the person whose name is signed above in my presence.

NOTARY PUBLIC

ANN M. SAITTA

My Commission Expires: June 11, 2015

[Notary's Seal Here]

Name: Zachary Shriver

03 Feb 09

Date

COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this 3rd day of February, 2009, before me, the undersigned notary public, personally appeared Zachary Shriver, and proved to me through satisfactory evidence of identification, which consisted of Massachusetts Driver's License, to be the person whose name is signed above in my presence.

NOTARY PUBLIC

ANN M. SAITTA

My Commission Expires: June 11, 2015

[Notary's Seal Here]

Attorney Docket No.: 2007774-0027

Name: Rajeev Chillakuru

Date

COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this \_\_\_\_\_ day of \_\_\_\_\_, 200\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_, and proved to me through satisfactory evidence of identification, which consisted of \_\_\_\_\_, to be the person whose name is signed above in my presence.

NOTARY PUBLIC

ANN M. SAITTA

My Commission Expires:

[Notary's Seal Here]



Name: Ganesh Venkataraman

28 - May - 2009

Date

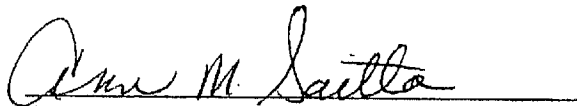
COMMONWEALTH OF MASSACHUSETTS

SS:

COUNTY OF MIDDLESEX

On this 28<sup>th</sup> day of May, 2009, before me, the undersigned notary public, personally appeared Ganesh Venkataraman, and proved to me through satisfactory evidence of identification, which consisted of Massachusetts Driver's License, to be the person whose name is signed above in my presence.

NOTARY PUBLIC



ANN M. SAITTA

My Commission Expires: June 11, 2015

[Notary's Seal Here]

Attorney Docket No.: 2007774-0027

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