

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Ian Christopher Parsons</td> <td>05/31/2013</td> </tr> <tr> <td>Ting Zheng</td> <td>06/03/2013</td> </tr> <tr> <td>Nur Sibel Gunay</td> <td>01/03/2013</td> </tr> <tr> <td>Carlos J. Bosques</td> <td>11/27/2012</td> </tr> </tbody> </table>		Name	Execution Date	Ian Christopher Parsons	05/31/2013	Ting Zheng	06/03/2013	Nur Sibel Gunay	01/03/2013	Carlos J. Bosques	11/27/2012
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<table border="1"> <tr> <td>Name:</td> <td>Momenta Pharmaceuticals, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>675 West Kendall Street</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02142</td> </tr> </table>		Name:	Momenta Pharmaceuticals, Inc.	Street Address:	675 West Kendall Street	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02142
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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>13630594</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13630594						
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CORRESPONDENCE DATA											
Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: patentdocket@choate.com Correspondent Name: Rolando Medina Address Line 1: Choate, Hall & Stewart LLP Address Line 2: Two International Place Address Line 4: Boston, MASSACHUSETTS 02110											
ATTORNEY DOCKET NUMBER:	2007774-0140										
NAME OF SUBMITTER:	Rolando Medina, PhD, JD										
Signature:	/Rolando Medina/										

Date:	06/14/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
<p>Total Attachments: 21</p> <p>source=Combined_Assignment_and_Declaration#page1.tif source=Combined_Assignment_and_Declaration#page2.tif source=Combined_Assignment_and_Declaration#page3.tif source=Combined_Assignment_and_Declaration#page4.tif source=Combined_Assignment_and_Declaration#page5.tif source=Combined_Assignment_and_Declaration#page6.tif source=Combined_Assignment_and_Declaration#page7.tif source=Combined_Assignment_and_Declaration#page8.tif source=Combined_Assignment_and_Declaration#page9.tif source=Combined_Assignment_and_Declaration#page10.tif source=Combined_Assignment_and_Declaration#page11.tif source=Combined_Assignment_and_Declaration#page12.tif source=Combined_Assignment_and_Declaration#page13.tif source=Combined_Assignment_and_Declaration#page14.tif source=Combined_Assignment_and_Declaration#page15.tif source=Combined_Assignment_and_Declaration#page16.tif source=Combined_Assignment_and_Declaration#page17.tif source=Combined_Assignment_and_Declaration#page18.tif source=Combined_Assignment_and_Declaration#page19.tif source=Combined_Assignment_and_Declaration#page20.tif source=Combined_Assignment_and_Declaration#page21.tif</p>	

COMBINED JOINT ASSIGNMENT & DECLARATION**A. ASSIGNMENT**

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. Ian Christopher Parsons	Belmont, MA
2. Ting Zheng	Sunnyvale, CA
3. Nur Sibel Gunay	Chestnut Hill, MA
4. Carlos J. Bosques	Arlington, MA

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

**MULTI-DIMENSIONAL CHROMATOGRAPHIC METHODS FOR
SEPARATING N-GLYCANS; and**

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application Serial No. 13/630,594 filed in the United States Patent and Trademark Office on September 28, 2012; and
- ☐ identified by International Patent Application No. Serial No. filed on Filing Date;
- and
- ☒ is also aware of the following priority applications:

Serial No.: 12/595,937; Filed: January 29, 2010

Serial No.: PCT/US08/60346; Filed: April 15, 2008

Serial No.: 60/923,705; Filed: April 16, 2007

WHEREAS Momenta Pharmaceuticals, Inc. (hereinafter "ASSIGNEE"), having a usual place of business at 675 West Kendall Street, Cambridge, Massachusetts 02142, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above; and hereby

confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. My sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including to divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made;

AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, I hereby request the Director of Patents and Trademarks of the United States to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, I 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 me, and that full right to convey the same as herein expressed is possessed by me.

B. DECLARATION (37 CFR 1.63)

As a below named inventor, I hereby declare that:

This declaration is directed to the patent application entitled:

MULTI-DIMENSIONAL CHROMATOGRAPHIC METHODS FOR SEPARATING N-GLYCANS; and

☐ attached hereto or prepared for filing in the United States Patent and Trademark Office; or

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The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of the claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the application, including the claims and am aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

Dated this 31ST day of MAY 2013.

Ian Parsons

Ian Christopher Parsons

Witnessed By

C. Lee-Parsons
Witness Signature

Printed Name: C. Lee-Parsons

Date: 31/May/2013

Witnessed By

Barbara V. Foster
Witness Signature

Printed Name: Barbara V. Foster

Date: 31 May 2013

Dated this _____ day of _____ 2013.

Ting Zheng

Witnessed By

Witness Signature

Printed Name: _____

Date: _____

Witnessed By

Witness Signature

Printed Name: _____

Date: _____

SIGNED this _____ day of _____, 20 ____.

Name: Nur Sibel Gunay

STATE OF _____
COUNTY OF _____ SS.

Before me this _____ day of _____, 20____, personally appeared Nur Sibel Gunay,
and proved to me through satisfactory evidence of identity which was
_____ to be the person whose name is signed on the preceding or attached
document, and acknowledged that he/she executed the same, of his/her own free will and for the
purposes set forth.

NOTARY PUBLIC

Name:

My Commission Expires: _____

SIGNED this _____ day of _____, 20 ____.

Name: Carlos J. Bosques

STATE OF _____ SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Carlos J. Bosques,
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Lake Oswego, OR
(TZ, 06/03/13)

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Dated this _____ day of _____ 2013.

Ian Christopher Parsons

Witnessed By

Witness Signature

Printed Name: _____

Date: _____

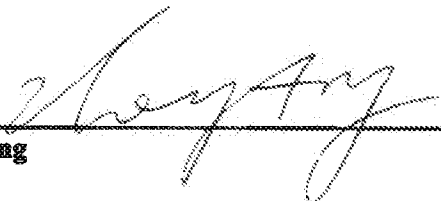
Witnessed By

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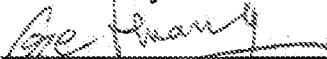
Printed Name: _____

Date: _____

Dated this 3rd day of June 2013.


Ting Zheng

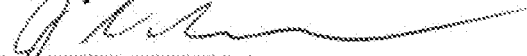
Witnessed By


Witness Signature

Printed Name: GE HUANG

Date: 6/3/2013

Witnessed By


Witness Signature

Printed Name: John Muschler

Date: 6/12/2013

SIGNED this _____ day of _____, 20 ____.

Name: Nur Sibel Gunay

STATE OF _____
SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Nur Sibel Gunay,
and proved to me through satisfactory evidence of identity which was
_____ to be the person whose name is signed on the preceding or attached
document, and acknowledged that he/she executed the same, of his/her own free will and for the
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NOTARY PUBLIC

Name: _____
My Commission Expires: _____

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Name: Carlos J. Bosques

STATE OF _____
COUNTY OF _____ SS.

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I have reviewed and understand the contents of the application, including the claims and am aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

SIGNED this _____ day of _____, 20 ____.

Name: **Ian Christopher Parsons**

STATE OF _____
SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared **Ian Christopher Parsons**, and proved to me through satisfactory evidence of identity which was _____ to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Name: _____

My Commission Expires: _____

SIGNED this _____ day of _____, 20 ____.

Name: **Ting Zheng**

STATE OF _____
SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared **Ting Zheng**, and proved to me through satisfactory evidence of identity which was _____ to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Name: _____

My Commission Expires: _____

SIGNED this 3rd day of January, 2013.


Name: **Nur Sibel Gunay**

Commonwealth
~~STATE OF~~

Massachusetts

SS.

COUNTY OF

Middlesex

Before me this 3rd day of January, 2013, personally appeared **Nur Sibel Gunay**, and proved to me through satisfactory evidence of identity which was Massachusetts Drivers License to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC


Name: Ann M. Saitta

My Commission Expires: June 11, 2015

SIGNED this 27th day of November, 2012.


Name: Carlos J. Bosques

Commonwealth

~~STATE OF~~

Massachusetts

SS.

COUNTY OF

Middlesex

Before me this 27th day of November, 2012, personally appeared **Carlos J. Bosques**,
and proved to me through satisfactory evidence of identity which was

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