**PATENT ASSIGNMENT COVER SHEET**

**SUBMISSION TYPE:** CORRECTIVE ASSIGNMENT

**NATURE OF CONVEYANCE:** Corrective Assignment to correct the ASSIGNEE ADDRESS previously recorded on Reel 020106 Frame 0572. Assignor(s) hereby confirms the CONVEYING PARTY: ANDREAS MADERNA ET AL., RECEIVING PARTY: ARDEA BIOSCIENCES, INC..

### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANDREAS MADERNA</td>
<td>11/09/2007</td>
</tr>
<tr>
<td>JEAN MICHEL VERNIER</td>
<td>11/06/2007</td>
</tr>
<tr>
<td>DINESH BARAWKAR</td>
<td>08/24/2007</td>
</tr>
<tr>
<td>VARAPRASAD CHAMAKURA</td>
<td>09/01/2007</td>
</tr>
<tr>
<td>HASSAN EL ABEELLAOUI</td>
<td>08/23/2007</td>
</tr>
<tr>
<td>ZHI HONG</td>
<td>08/30/2007</td>
</tr>
</tbody>
</table>

### RECEIVING PARTY DATA

- **Name:** ARDEA BIOSCIENCES, INC.
- **Street Address:** 9390 TOWNE CENTRE DRIVE
- **City:** SAN DIEGO
- **State/Country:** CALIFORNIA
- **Postal Code:** 92121

### PROPERTY NUMBERS Total: 1

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<tr>
<td>Application Number</td>
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### CORRESPONDENCE DATA

- **Fax Number:** (703)243-6333

*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.*

- **Phone:** 703-243-6333
- **Email:** mail@mwzb.com
- **Correspondent Name:** MILEN, WHITE, ZELANO & BRANIGAN, P.C.
- **Address Line 1:** 2200 CLARENDON BLVD., SUITE 1400
- **Address Line 2:** PAM RICHARDSON
- **Address Line 4:** ARLINGTON, VIRGINIA 22201

### ATTORNEY DOCKET NUMBER:

BAYARDEA-0001

### NAME OF SUBMITTER:

PAMELA D. RICHARDSON

### SIGNATURE:

/Pamela D. Richardson/
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DATE SIGNED: 09/28/2015
PATENT ASSIGNMENT

11/13/2007
500397713

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

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<td>08/23/2007</td>
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<tr>
<td>Zhi Hong</td>
<td>08/30/2007</td>
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RECEIVING PARTY DATA

<table>
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<tr>
<th>Name: Ardea Biosciences</th>
</tr>
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<tbody>
<tr>
<td>Street Address: 3300 Hyland Avenue</td>
</tr>
<tr>
<td>City: Costa Mesa</td>
</tr>
<tr>
<td>State/Country: CALIFORNIA</td>
</tr>
<tr>
<td>Postal Code: 92607</td>
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PROPERTY NUMBERS Total: 1

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CORRESPONDENCE DATA

Fax Number: (650)493-8811

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 650-493-9300
Email: kwatson@wegr.com

Correspondent Name: Karen Watson-Straughan
Address Line 1: 650 Page Mill Road
Address Line 4: Palo Alto, CALIFORNIA 94304-1050

ATTORNEY DOCKET NUMBER: 18545-718.501

NAME OF SUBMITTER: Linda Anders
WHEREAS, Arden Biosciences, a corporation of the State of California, having a place of business at 3300 Hyland Avenue, Corona, CA 92878, (hereinafter termed "Assignor"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein; and in and to all embodiments of the invention, heretofore-conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said Inventors"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignor:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignor the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitute, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every release or extension of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignor to enable said Assignor to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other undertakings as to the extent deemed necessary or desirable by said Assignor for prosecuting said Assignee's right, title and interest herein conveyed; (f) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (g) for filing and prosecuting applications for reissue of any said patents; (h) for interference or other priority proceedings involving said inventions and for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee on the date written below:

Date: 11-09-2003

Andreas MADERN

Jean-Michel VERNIER

Dinesh BARAWKAR

Yaruprasad CHAMAKURA

Hassen EL ABDELLAOUI

ZHONG
ASSIGNMENT OF APPLICATION

Whereas, the undersigned:

1. MADERNA, Andreas
   3 Coner Ct.
   Tappan, NY 10983

2. VERNIER, Jean-Michel
   24831 Catter
   Laguna Niguel, CA 92677

3. BARAWKAR, Dinesh
   17 Bahtrade Place
   Foodland Ranch, CA 92610
   Irvine, CA 92614

4. CHAMAKURA, Varaprasad
   59 Miwy Run
   Irvine, CA 92614

5. EL ARDELLAOU, Hassan
   3915 Clovewood Meadow Lane
   High Point, NC 27265

6. HONG, Zhi
   24 Blee Summit
   Irvine, CA 92656

hereinafter termed "Inventors", have invented certain new and useful improvements in

DERIVATIVES OF N-(ARYLAMINO) SULFONAMIDES AS INHIBITORS OF MEK

for which an application for United States Patent was filed on 07/30/2007, Application No. 11/830,723.

WHEREAS, Aresa Biosciences, a corporation of the State of California, having a place of business at 3300 Hyland Avenue, Costa Mesa, CA 92626, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the inventions disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor’s certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: ____________________________
Andreas MADERNA

Date: 11-06-07
Jean-Michel VERNIER

Date: ____________________________
Dinesh BARAWKAR

Date: ____________________________
Varaprasad CHAMAKURA

Date: ____________________________
Hasan EL ARDELLAOU

Date: ____________________________
Zhi HONG
ASSIGNMENT OF APPLICATION

Whereas, the undersigned:

1. MADERNIA, Andrea
   3 Conor Cl.
   Tappan, NY 10983

2. VERNIER, Jean-Michel
   24831 Cutler
   Laguna Niguel, CA 92677

3. BARAWKAR, Dinsh
   17 Balustrade Place
   Footsill Ranch, CA 92610

4. CHAMAKURA, V. Vanapra
   59 Misty Run
   Irvine, CA 92614

5. EL. ABDELLAOUI, Hassan
   3915 Goodwood Meadow Lane
   High Point, NC 27265

6. HONG, Zhi
   24 Blue Summit
   Irvine, CA 92656

hereinafter termed "Inventors", have invented certain new and useful improvements in

DERIVATIVES OF N-(ARYLAMINO) SULFONAMIDES AS INHIBITORS OF MEK

for which an application for United States Patent was filed on 07/30/2007, Application No. 11/830,733.

WHEREAS, Arcles Biosciences, a corporation of the State of California, having a place of business at 3100 Hyland Avenue, Costa Mesa, CA 92626, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, hereinafter conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereof granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, continuation, divisional or continuation-in-part of any of said applications; and (d) in and to each and every renewal or extension of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional; continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissue of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: ________________
Andrea MADERNIA

Date: ________________
Jean-Michel VERNIER

Date: ________________
Dinsh BARAWKAR

Date: ________________
V. Vanapra CHAMAKURA

Date: ________________
Hassan EL. ABDELLAOUI

Date: ________________
Zhi HONG

3955531.1.DOC
ASSIGNMENT OF APPLICATION

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<th>Inventor</th>
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<td>1.</td>
<td>MADIRNA, Andreas</td>
<td>3 Connor Ct. Tappan, NY 10983</td>
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<td>VERNIER, Jean-Michel</td>
<td>24831 Carter Laguna Niguel, CA 92677</td>
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<td>BARAWKAR, Dinesh</td>
<td>17 Ball AMide Place Food Hill Ranch, CA 92610</td>
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<td>CHAMAKURA, Varunad</td>
<td>59 Mity Run Irvine, CA 92614</td>
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<td>5.</td>
<td>EL ABDELLAoui, Hassan</td>
<td>3915 Cloverwood Meadow Lane High Point, NC 27265</td>
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<tr>
<td>6.</td>
<td>HONG, Zhi</td>
<td>24 Blue Summit Irvine, CA 92656</td>
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WHEREAS, Ardea Biosciences, a corporation of the State of California, having a place of business at 3330 Hyland Avenue Costa Mesa, CA 92626, (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in and to said application and said invention; and

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer, and convey unto said Assignee the entire right, title, and interest in and to said application and said invention; and say rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; and (b) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, divisional continuation, or continuation-in-part of any said applications; and (c) in and to each and every renewal or extension of any of said patents.

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3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below:

Date: 01-09-2007

Andrew MADIRNA
Jean-Michel VERNIER
Dinesh BARAWKAR
Varunad CHAMAKURA
Hassen EL ABDELLAoui
Zhi HONG
Whereas, the undersigned:

1. MADERNINA, Andreas
   3 Conor Ct.
   Tappan, NY 10983

2. VERNIER, Jean-Michel
   24331 Cutler
   Laguna Niguel, CA 92677

3. BARAWKAR, Dinesh
   17 Balustrade Place
   Foothill Ranch, CA 92610

4. CHAMAKURA, Varapradad
   59 Misty Run
   Irvine, CA 92614

5. EL ABDELLAOUI, Hassan
   3915 Cloverwood Meadow Lane
   High Point, NC 27265

6. HONG, Zhi
   24 Blue Summit
   Irvine, CA 92616

hereinafter termed "Inventors", have invented certain new and useful improvements in DERIVATIVES OF N-(ARYLAMINO) SULFONAMIDES AS INHIBITORS OF MEK

☐ for which an application for United States Patent was filed on 07/20/2007, Application No. 11/839,733.

WHEREAS, Ardea Bioproperties, a corporation of the State of California, having a place of business at 3300 Hyland Avenue, Costa Mesa, CA 92626, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said Inventors"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

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3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not assigned and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: 8/23/2007

Andreas MADERNINA

Jean-Michel VERNIER

Dinesh BARAWKAR

Varapradad CHAMAKURA

Hassan EL ABDELLAOUI

Zhi HONG
ASSIGNMENT OF APPLICATION

Whereas, the undersigned:

1. MADERNIA, Andreas
   3 Cacer Co.
   Teaneck, NY 10879

2. VERNIER, Jean-Michel
   24831 Cutter
   Laguna Niguel, CA 92677

3. BARAWKAR, Dinesh
   17 Bahustrade Place
   Rockhill Ranch, CA 92610

4. CHAMAKURA, Varaprada
   59 Misty Run

5. EL ABDELLAOUI, Hassan
   3915 Cloverwood Meadow Lane
   High Point, NC 27265
   Irvine, CA 92656

hereinafter termed "Inventors", have invented certain new and useful improvements in

DERIVATIVES OF N-(ARYLAMINO) SULFONAMIDES AS INHIBITORS OF MEK

☐ for which an application for United States Patent was filed on 02/10/2007, Application No. 11/830,733.

WHEREAS, Ardea Biopharmaceuticals, a corporation of the State of California, having a place of business at 3300 Hyland Avenue, Costa Mesa, CA 92626, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, hereinafter conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") hereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest: (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oath, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissue of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall issue to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: ____________________________
Andreas MADERNIA

Date: ____________________________
Jean-Michel VERNIER

Date: ____________________________
Dinesh BARAWKAR

Date: ____________________________
Varaprada CHAMAKURA

Date: ____________________________
Hassan EL ABDELLAOUI

Date: ____________________________
Ziah HONG
CERTIFICATE OF ADDRESS CHANGE

I, James Mackay, duly authorized to execute this Certificate on behalf of the Company, hereby certify that Ardea Biosciences, Inc., a member of the AstraZeneca Group, changed its address as follows:

ADDRESS CHANGE

From: 3300 Hyland Avenue, Costa Mesa, CA 92626, USA
To: 4939 Directors Place, San Diego, CA, 92121, USA
Date: March 1, 2008

ADDRESS CHANGE

From: 4939 Directors Place, San Diego, CA, 92121, USA
To: 9390 Towne Centre Drive, San Diego, CA, 92121, USA
Date: December 1, 2014

By: 

Name: James Mackay
Position: President & Chief Operating Officer

Date: 13 March, 2015
Place: San Diego, CA, USA