

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, THUY-ANH TRAN, QUYEN-QUYEN DO, and BRETT ULLMAN, each individually assign to ARENA PHARMACEUTICALS, INC., a corporation formed under the laws of Delaware and having a principal place of business at 6154 Nancy Ridge Drive, San Diego, CA 92121, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "MODULATORS OF THE BETA-3 ADRENERGIC RECEPTOR USEFUL FOR THE TREATMENT OR PREVENTION OF DISORDERS RELATED THERETO," and was filed in the United States Patent and Trademark Office on June 5, 2017, as application PCT/2017/35867 (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and

Brett Ullman
Brett Ullman

DATE: 6.14.17

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of Maryland
County of Baltimore

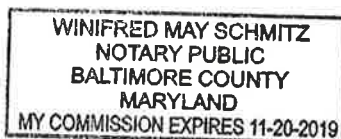
On 6/14/2017 before me, Winifred May Schmitz (NS)
Brett Ullman
(insert name and title of the officer)

personally appeared Brett Ullman
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 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 Maryland that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Winifred May Schmitz



The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: ARENA PHARMACEUTICALS, INC.

Signature: SK Carter Date: 21 July 2017

Name: Shannon Carter

Title: Head of Intellectual Property

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Diego

On 21 JULY 2017 before me, Maria Gabriela Acquisti, notary public,
(insert name and title of the officer)

personally appeared Shannon Carter
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 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.

Signature M. Acquisti



ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, THUY-ANH TRAN, QUYEN-QUYEN DO, and BRETT ULLMAN, each individually assign to ARENA PHARMACEUTICALS, INC., a corporation formed under the laws of Delaware and having a principal place of business at 6154 Nancy Ridge Drive, San Diego, CA 92121, and its successors, transferees, and assignees (collectively the “Assignee”), all of our individual and joint right, title, and interest throughout the world in the subject matter (the “Subject Matter”) of a patent application that names us as inventors, is titled “MODULATORS OF THE BETA-3 ADRENERGIC RECEPTOR USEFUL FOR THE TREATMENT OR PREVENTION OF DISORDERS RELATED THERETO,” and was filed in the United States Patent and Trademark Office on June 5, 2017, as application PCT/2017/35867 (the “Application”).

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declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Thuy-Anh Tran

DATE: _____

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.
--

State of California
County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared _____
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 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.

Signature _____

Quyen-Quyen Do
Quyen-Quyen Do

DATE: 06/16/2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Diego

On 16 June 2017 before me, Maria Gabriela Acquisti, notary public
(insert name and title of the officer)

personally appeared Quyen-Quyen Do
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 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.

Signature M. Acquisti



Brett Ullman

DATE: _____

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State of _____)
County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared _____
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subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
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I certify under PENALTY OF PERJURY under the laws of the State of _____ that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: ARENA PHARMACEUTICALS, INC.

Signature: SKM/ta

Date: 26 November 2017

Name: Shannon Carter

Title: VP, Intellectual Property

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of San Diego

On 20 Nov 2017 before me, Maria Gabriela Acquisti, notary public
(insert name and title of the officer)

personally appeared Shannon Carter
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 entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

Signature MA Acquisti



ASSIGNMENT

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declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Thuy Anh Tran
Thuy-Anh Tran

DATE: 11-07-2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Diego

On 7 Nov 2017 before me, Maria Gabriela Acquisti, notary public
(insert name and title of the officer)

personally appeared Thuy Tran
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 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.

Signature

Maria Gabriela Acquisti



Quyen-Quyen Do

DATE: _____

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared _____
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
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person(s), or 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.

Signature _____

Brett Ullman

DATE: _____

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State of _____
County of _____

On _____ before me, _____
(insert name and title of the officer)

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

WITNESS my hand and official seal.

Signature _____

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: ARENA PHARMACEUTICALS, INC.

Signature: Shannon Carter Date: 20 November 2017

Name: Shannon Carter

Title: VP, Intellectual Property

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Diego

On 20 Nov 2017 before me, Maria Gabriela Acquisti, notary public
(insert name and title of the officer)

personally appeared Shannon Carter
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
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WITNESS my hand and official seal.

Signature Maria Gabriela Acquisti

