505440823 04/23/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5487624

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK MACIELAG	03/14/2019
RAYMOND J. PATCH	03/14/2019
RUI ZHANG	03/20/2019
MARTIN A. CASE	03/20/2019
MARK J. WALL	03/14/2019
YUE-MEI ZHANG	03/13/2019

RECEIVING PARTY DATA

Name:	JANSSEN PHARMACEUTICA NV	
Street Address:	TURNHOUTSEWEG 30	
City:	BEERSE	
State/Country:	BELGIUM	
Postal Code:	B-2340	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16344141

CORRESPONDENCE DATA

Fax Number: (215)965-1331

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: (215) 965-1330

adrake@panitchlaw.com Email:

PANITCH SCHWARZE BELISARIO & NADEL LLP **Correspondent Name:**

TWO COMMERCE SQUARE Address Line 1:

Address Line 2: 2001 MARKET STREET, SUITE 2800 Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	688097-377U1
NAME OF SUBMITTER:	ANDREW P. BARANIAK, PH.D.
SIGNATURE:	/Andrew P. Baraniak, Ph.D./
DATE SIGNED:	04/23/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

REEL: 048969 FRAME: 0479 505440823

PAIENI

Total Attachments: 12

source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page1.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page2.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page3.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page4.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page5.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page6.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page7.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page8.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page10.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page11.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page11.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page11.tif source=Combined Declaration and Assignment (copy from PCT) filed 4_23_19#page11.tif

PATENT REEL: 048969 FRAME: 0480

		Autoritey bocket No.: 1 KD3411031C1
	COMBINED	DECLARATION AND ASSIGNMENT
<u>NEU</u>	ROPEPTIDE Y REC	OSINE TYROSINE COMPOUNDS AS MODULATORS OF CEPTORS
This declaration and assignment	is directed to:	The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>PCT/US2017/058451</u> filed on <u>October 26, 2017</u> .
Declaration		
As the below named in	ventor, I hereby decl	are that:
The above-identified ap	oplication ("Applicat	ion") was made or authorized by me.
I believe that I am the c	original inventor or a	n original inventor of a claimed invention or discovery in the Application.
	o patentability as def	nts of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or in for filings of this Application in the United States of America.
Assignment		
		Janssen Pharmaceutica NV
		Turnhoutseweg 30
		B-2340 Beerse, Belgium
		oration of the state or country of <u>Belgium</u> sinafter designated as the "Assignee"),
		the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or	,	
For good and valuable assigned and transferred to Assigned		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the States, European Patent Office such inventions or discoveries continuations thereof, and to al supplementary protection certification.	Application, all inv and of all other cou and all rights in s Il Letters Patent that cates, reexamination	he Application, including all priority rights for other countries arising therefrom and entions or discoveries therein disclosed, and any and all Letters Patent of the United antries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and t may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

1

have been held and enjoyed by me had this assignment and sale not been made.

PATENT

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

MARK MACIELAG	-//
MachMacel	3/14/19
Signature	Date

PATENT

	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention:	CYCLIC PEPTIDE TYRONEUROPEPTIDE Y REC	OSINE TYROSINE COMPOUNDS AS MODULATORS OF CEPTORS
This declaration and assig	gnment is directed to:	The attached or filed herewith application of (list of named inventors),
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As the below na	med inventor, I hereby decl	are that:
The above-ident	ified application ("Applicat	ion") was made or authorized by me.
I believe that I a	m the original inventor or a	n original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this Application in the United States of America.		
		e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or in for filings of this Application in the United States of America.
Assignment		
		Janssen Pharmaceutica NV Turnhoutseweg 30
		B-2340 Beerse, Belgium
		oration of the state or country of <u>Belgium</u> einafter designated as the "Assignee"),
I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:		
or		
For good and vassigned and transferred t		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority States, European Patent such inventions or disco continuations thereof, an supplementary protection and enjoyment to the full	to the Application, all involveries and of all other couperies and all rights in state of to all Letters Patent that certificates, reexamination end of the term or terms for	the Application, including all priority rights for other countries arising therefrom and entions or discoveries therein disclosed, and any and all Letters Patent of the United intries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and may be granted for said inventions and discoveries, and in and to all extensions, s, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would ent and sale not been made.

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

RAYMOND J. PATCH		
Rozuml 9 Catt	03/14/19	
Signature	Date	

		Automoj Boeket i on a ratio di totali o ratio di totali di tot
	COMBINED	DECLARATION AND ASSIGNMENT
-	CYCLIC PEPTIDE TYR NEUROPEPTIDE Y REG	OSINE TYROSINE COMPOUNDS AS MODULATORS OF CEPTORS
This declaration and assign		The attached or filed herewith application of (list of named inventors),
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As the below name	ed inventor, I hereby decl	lare that:
The above-identifi	ed application ("Applica	tion") was made or authorized by me.
I believe that I am	the original inventor or a	an original inventor of a claimed invention or discovery in the Application.
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Assignment		
8		Janssen Pharmaceutica NV
		Turnhoutseweg 30
		B-2340 Beerse, Belgium
		oration of the state or country of <u>Belgium</u> einafter designated as the "Assignee"),
		the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
or		
For good and values assigned and transferred to		e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to States, European Patent Co such inventions or discov continuations thereof, and supplementary protection co	o the Application, all involved and of all other converies and all rights in to all Letters Patent that the actificates, reexamination	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United untries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and it may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would

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RUI ZHANG

Signature

3/20/2019 Date

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		the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
or		
For good and values assigned and transferred to		e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to States, European Patent Co such inventions or discov continuations thereof, and supplementary protection co	o the Application, all involved and of all other converies and all rights in to all Letters Patent that the actificates, reexamination	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United untries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and it may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would

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I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

MARTIN A. CASE

Signature

March 20 2019

COMBINED DECLA	RATION AND ASSIGNMENT
Title of Invention: CYCLIC PEPTIDE TYROSINE TY NEUROPEPTIDE Y RECEPTORS	ROSINE COMPOUNDS AS MODULATORS OF
This declaration and assignment is directed to:	
	hed or filed herewith application of (list of named inventors),
or	
	ed States application or PCT international application CT/US2017/058451 filed on October 26, 2017.
Declaration	
As the below named inventor, I hereby declare that:	
The above-identified application ("Application") was	made or authorized by me.
I believe that I am the original inventor or an original	nventor of a claimed invention or discovery in the Application.
	Application, including the claims, and I acknowledge the duty to disclose the 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful false statement imprisonment of not more than five (5) years, or both for filing	made in this declaration is punishable under 18 U.S.C. § 1001 by fine or s of this Application in the United States of America.
Assignment	
	Pharmaceutica NV
	nhoutseweg 30
B-234	0 Beerse, Belgium
	ne state or country of <u>Belgium</u> ignated as the "Assignee"),
I hereby acknowledge that I have assigned the above which is hereby conformed for recordation in the US Patent Of	identified invention by previous assignment (attached hereto) to Assignee fice and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the sufficient assigned and transferred to Assignee:	y of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all inventions or States, European Patent Office and of all other countries, wh such inventions or discoveries and all rights in such Appl continuations thereof, and to all Letters Patent that may be supplementary protection certificates, reexaminations, renewal	tion, including all priority rights for other countries arising therefrom and discoveries therein disclosed, and any and all Letters Patent of the United ich may be granted for such inventions or discoveries, or any of them, all ication including any and all provisionals, substitutions, divisions, and granted for said inventions and discoveries, and in and to all extensions, and reissues thereof, to be held and enjoyed by Assignee for its own use uch Letters Patent may be granted, as fully and entirely as the same would e not been made.
Office, any other patent offices, and under the Patent Coopera any reexamination of any of such applications, and any pate	lication in the United States Patent and Trademark Office, European Patent tion Treaty, and any continuing, divisional, or reissue applications thereof, ent term extensions or supplementary protection certificates of any such unection with such applications as the Assignee may deem necessary or

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PATENT

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

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I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

YUE-MEIZH	IANG		
	your 3	3/13/2019	
Signature	0	Date	

COMBINED DECLARATION AND ASSIGNMENT				
Title of Invention: CYCLIC PEPTIDE TYROSINE TYROSINE COMPOUNDS AS MODULATORS OF NEUROPEPTIDE Y RECEPTORS				
This declaration and assig		The attached or filed herewith application of (list of named inventors),		
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Declaration				
As the below nar	med inventor, I hereby decl	are that:		
The above-identified application ("Application") was made or authorized by me.				
I believe that I a	m the original inventor or a	n original inventor of a claimed invention or discovery in the Application.		
I have reviewed and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this Application in the United States of America.				
I hereby acknow imprisonment of not more	vledge that any willful false than five (5) years, or both	e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or h for filings of this Application in the United States of America.		
Assignment				
		Janssen Pharmaceutica NV Turnhoutseweg 30 B-2340 Beerse, Belgium		
		oration of the state or country of <u>Belgium</u> einafter designated as the "Assignee"),		
I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:				
or				
For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:				
the right to claim priority States, European Patent such inventions or disc continuations thereof, ar supplementary protection and enjoyment to the ful	y to the Application, all inv Office and of all other cor- overies and all rights in and to all Letters Patent than a certificates, reexamination I end of the term or terms for	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United untries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and it may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would tent and sale not been made.		
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March 14, 2019 Signature

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RECORDED: 04/23/2019

PATENT