PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	1

CONVEYING PARTY DATA

Name	Execution Date
GUNNAR NORDVALL	08/07/2014
KATHARINA HOGDIN	08/15/2014
PER JONAS MALMBORG	08/05/2014
ANNIKA KERS	10/21/2014
DIRK REINHOLD WEIGELT	08/07/2014

RECEIVING PARTY DATA

Name:	ASTRAZENECA AB
Street Address:	SE-151 85
City:	SODERTALJE
State/Country:	SWEDEN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15785654

CORRESPONDENCE DATA

Fax Number: (860)371-3458

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: 8604344654

Email: mail@ipraxuslegal.com

Correspondent Name: WARREN K VOLLES

Address Line 1: P.O. BOX 689

Address Line 2: 67 STERLING HILL ROAD

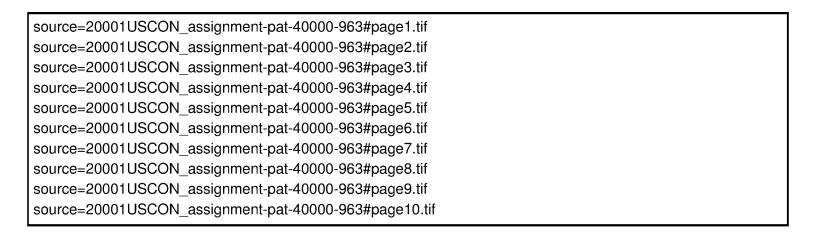
Address Line 4: OLD LYME, CONNECTICUT 06371

NAME OF SUBMITTER: WARREN K. VOLLES SIGNATURE: /Warren K. Volles/ 10/16/2018	ATTORNEY DOCKET NUMBER:	20001-US-CON	
	NAME OF SUBMITTER:	WARREN K. VOLLES	
DATE SIGNED: 10/16/2018	SIGNATURE:	/Warren K. Volles/	
10/10/2010	DATE SIGNED:	10/16/2018	

Total Attachments: 10

PATENT REEL: 047171 FRAME: 0001

505142576



PATENT REEL: 047171 FRAME: 0002

§1

The undersigned, Katharina HÖGDIN; Annika KERS; Per Jonas MALMBORG; Gunnar NORDVALL; all Swedish citizens and Dirk Reinhold WEIGELT, German citizen, c/o AstraZeneca Intellectual Property AstraZeneca R&D Alderley, Alderley Park, Macclesfield Cheshire, SK10 4TG United Kingdom as of the 5th day of November 2013 (the "Effective Date") (hereby confirm(s) that by virtue of their contract of employment have assigned, and do hereby assign to AstraZeneca AB with registered office address at SE-151 85 Södertälje, Sweden (the "Assignee") an invention (as further defined below) made during employment, which invention, in accordance with the rules laid down in the collective bargaining agreement between SAF (the Swedish Employers' Confederation) and PTK (the Swedish Federation of Salaried Employees in Industry and Services) dated 1 April, 1995, has been brought to the attention of the employer and has been categorized as a Class A Invention.

§2

This assignment comprises our entire right, title and interest to said invention made by me/us and to any and all patents that may be granted thereon.

§3

The assignment as stated in §2, above, includes, but is not restricted to, the right without limitation to apply for, to be granted and to assign patents and other means of protection of industrial property that may be granted on said invention, that is included in US Provisional Application No. 61/899903 filed on the 5th day of November 2013 (the "Patent Application") with regard to the invention referred to by this confirmation for a patent, design registration or inventor's certificate or other comparable means of protection of industrial property, and the right to file a patent application anywhere in the world claiming convention priority.

84

I/We hereby confirm that calculation of the remuneration for the invention assigned to AstraZeneca AB and shall be subject to the rules stated in the directions, dated 10 February, 1984, as to providing incentives for inventors among employees of the AstraZeneca group of companies.

§5

The AstraZeneca group of companies are entitled at any time to waive their rights to the invention in favour of me/us in which case any remuneration already paid out is not required to be refunded.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

Signed at: Uppsala, Sweden	
Date: <u>2014-08-15</u>	Date:
Hallinseffiglen	
Name: Katharina HÖGDIN	Name: Annika KERS
Witnessed by:	Witnessed by:
Time Date Solt	
Name:	Name:
Tina Frykenfeldt	

Date:	Date:
Name: Per Jonas MALMBORG	Name: Gunnar NORDVALL
Witnessed by:	Witnessed by:
Name:	Name:
Date:	
Dirk Reinhold WEIGELT	
Witnessed by:	
Name:	
The above assignment agreement is accepted:	
Signed at: Walthou, MA USA Date: 23-0	LTOBER-2014
Signed for and on behalf of ASTRAZENECA AB (PUBL)	
Headran Piellin J Meaghan RICHMOND Authorised Signatory	
Witnessed by:	
Name: Kalliopi Gantwidh	

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Signed at:

Date: 2014-10-21

Name: Annika KERS

Witnessed by:

1

Signed at: NULHUM, HA USA Date: 23-0010BEX-2014

ASTRAZENECA PHARMACEUTICALS LP

Name: Meaghan RICHMOND Title: Authorised Signatory

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Signed at:	
Date:	Date:
Name: Katharina HÖGDIN	Name: Annika KERS
Witnessed by:	Witnessed by:
,	
Name:	Name:

Date: 5/8 - 2014		Date:
Name: Per Jonas MALMBORG		Name: Gunnar NORDVALL
Witnessed by:		Witnessed by:
Daw Clalu my Name: Denny MALMBORS	Name:	
Date:		
Dirk Reinhold WEIGELT		
Witnessed by:		
Name:		
The above assignment agreement is accepted:		
Signed at: WWW MA USA Date: 23	04.14	
Signed for and on behalf of ASTRAZENECA AB (PUBL)		
Headron Returned Mehghan RICHMOND Authorised Signatory		
Witnessed by: 15 Name: Kallyop Gantanth 5		

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Signed at: Huddinge, Sweden	
Date:	Date:
Name: Katharina HÖGDIN	Name: Annika KERS
Witnessed by:	Witnessed by:
Name:	Name:

Date:	Date: 2014-08-07
The Mark Monday	Name: Gunnar NORDVALL
Name: Per Jonas MALMBORG	lyame: Guillai NOKD VALL.
Witnessed by:	Witnessed by:
	Chalite My
Name: Na	me:
Date:	CHARLOTTE AHLGREN
Dirk Reinhold WEIGELT	
Witnessed by:	
Name:	
The above assignment agreement is accepted:	
Signed at: Wallham, MA VSA Date: 23-007.	14
Signed for and on behalf of ASTRAZENECA AB (PUBL)	
Medghan RICHMODD Authorised Signatory	
Name: Kally of Gantwoods	
nallygi bantwas	

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Date:	Date:
Name: Katharina HÖGDIN	Name: Annika KERS
Witnessed by:	Witnessed by:
Name:	Name:

Date:	Dat	e:
Name: Per Jonas MALMBORG	Nai	ne: Gunnar NORDVALL
Witnessed by:	Wi	tnessed by:
Name:	lame:	
Date: AUG 7, 2014		
Dirk Reinhold WEIGELT		
Witnessed by:		
Name: TATJAHA WEIGELT		
The above assignment agreement is accepted:		
Signed at: WWW.MA BA Date: 2014	0807	
Signed for and on behalf of ASTRAZENECA AB (PUBL)		
Merghan RICHMOND Authorised Signatory Witnessed by: Name: Kalhopi Gantzoudi		,

RECORDED: 10/18/2016