

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LOS ALAMOS NATIONAL SECURITIES, LLC	10/15/2014
RECEIVING PARTY DATA		
Name:	CALDERA PHARMACEUTICALS, INC	
Street Address:	278-D DP ROAD	
City:	LOS ALAMOS	
State/Country:	NEW MEXICO	
Postal Code:	87544	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Patent Number:	7241381
CORRESPONDENCE DATA		
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<i>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.</i>		
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ATTORNEY DOCKET NUMBER:	XR3-US2	
NAME OF SUBMITTER:	FRANCESCO DE REGE	
SIGNATURE:	/Francis de Rege/	
DATE SIGNED:	12/24/2014	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 5		
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ASSIGNMENT

WHEREAS, LOS ALAMOS NATIONAL SECURITY, LLC, a limited liability corporation duly organized under the laws of the State of Delaware, with its principal office and place of business at Office of Laboratory Counsel, Los Alamos National Laboratory, P.O. Box 1663, MS A187, Los Alamos, NM 87545 (hereinafter referred to as "Assignor"), is the sole owner of the entire right, title and interest in and to the listed patents and patent applications set forth in Schedule A attached hereto and in and to the inventions described therein; and

WHEREAS, CALDERA PHARMACEUTICALS, INC., a corporation organized and existing under the laws of the State of Delaware, with its principal office and place of business at 278-D DP Road, Los Alamos, NM 87544 (hereinafter referred to as "Assignee"), is desirous of acquiring the entire rights, titles and interests in and to the inventions, patents and patent applications set forth in Schedule A including any patents that may issue based on the pending applications; and

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN THAT, for good and valuable consideration paid by Assignee, the receipt and sufficiency of which is hereby acknowledged, Assignor by these presents does hereby assign, sell, transfer and set over to said Assignee, Assignor's entire rights, titles and interests in and to said inventions and in and to the patents and patent applications set forth in Schedule A, including any patents that may issue therefore and including any and all continuations, divisionals and reissues, together with the right to file and obtain foreign patents and applications therefor, all of said rights to be held and enjoyed by Assignee for its own use and for the use of its legal representatives, successors and assigns, to the full end of the term or terms for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made; and the same to include any and all past and present rights and powers, under statutory and common law, including the right to sue others for infringement and collect damages, which have accrued or may accrue to Assignor of any and all kind and nature pertaining to said inventions, patents and patent applications.

Assignor does hereby authorize and request the Commissioner of Patents and Trademarks to issue in accordance with this Assignment any and all U.S. Letters Patent that may be granted

on any of said U.S. patent applications to said Assignee for its sole use and enjoyment, and for the use and enjoyment of Assignee's successors and assigns.

Assignee acknowledges that each of the patents and patent applications in Appendix A are subject to U.S. Government Rights pursuant to Contract Number DE-AC52-06NA25396 between the Assignor and the United States Department of Energy, National Nuclear Security Administration. The Government will continue to have rights in the patents and patent applications in Appendix A following execution of this Assignment.

IN WITNESS WHEREOF, Assignor has hereunto set his hand and seal.

LOS ALAMOS NATIONAL SECURITY, LLC

Name: [Signature]

Title: Group Leader Technology Assets + Strategies Office of Legal Counsel

Date: 10/15/2014

STATE OF NM)
) ss.
COUNTY OF LOS ALAMOS

On this 15th day of October, 2014, before me, the undersigned, a Notary Public within and for the County and State aforesaid, personally appeared DAVID E. McCumber to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

In Witness Whereof, I have hereunto attached my hand and notarial seal, at the County and State aforesaid on the day and year last above written.



Rita Cordova
Notary Public

My Commission Expires: may 31, 2017

SCHEDULE A

Foreign Patent Applications/Issued Patents						
Title	COUNTRY	Serial No.	Filed Date	Patent No.	Issue Date	Status
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	CH	07 874 491.9	10/10/2007			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	DE	60 2007 024 468.4	06/18/2012			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	DK	07 874 491.9	10/10/2007	DK/EP208451908/01/2012	08/01/2012	ISSUED
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	EP	07 874 491.9	10/10/2007	2 084 519		ISSUED
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	EP	12 164 870.3	10/10/2007			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	FR	07 874 491.9	10/10/2007			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	GB	07 874 491.9	10/10/2007			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	HK	13104259.3	10/10/2007			PUBLISHED
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	IE	07 874 491.9	10/10/2007			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	IT	07 874 491.9	10/10/2007			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	JP	2009-532446	10/10/2007	5143841	11/30/2012	ISSUED
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	JP	2012-122988	05/30/2012			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	JP	2014-123249	06/16/2014			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	NL	07 874 491.9	10/10/2007			PENDING
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	SE	07 874 491.9	10/10/2007			PENDING
FLOW METHOD AND APPARATUS FOR SCREENING CHEMICALS USING MICRO X-RAY FLUORESCENCE	SG	200500360-3	06/24/2003	109345	10/31/2008	ISSUED
METHOD AND APPARATUS FOR DETECTING CHEMICAL BINDING	SG	PCT/US04/019678	06/18/2004	118682	05/30/2007	ISSUED

SCHEDULE A

U.S. Patent Applications/Issued Patents

Title	COUNTRY	Serial No.	Filed Date	Patent No.	Issue Date	Status
DRUG DEVELOPMENT AND MANUFACTURING	US	10/880,388	06/29/2004			PUBLISHED
FLOW METHOD AND APPARATUS FOR SCREENING CHEMICALS USING MICRO X-RAY FLUORESCENCE	US	11/444,660	05/31/2006	7,519,145	04/14/2009	ISSUED
FLOW METHOD AND APPARATUS FOR SCREENING CHEMICALS USING MICRO X-RAY FLUORESCENCE	US	12/396,592	03/03/2009	7,929,662	04/19/2011	ISSUED
ADVANCED DRUG DEVELOPMENT AND MANUFACTURING	US	11/974,156	10/10/2007			PUBLISHED
METHOD AND APPARATUS FOR DETECTING CHEMICAL BINDING	US	10/621,825	07/16/2003	6,858,148	02/22/2005	ISSUED
METHOD FOR DETECTING BINDING EVENTS USING MICRO-X-RAY FLUORESCENCE SPECTROMETRY	US	09/859,701	05/16/2001	7,858,385	12/28/2010	ISSUED

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REEL: 034699 FRAME: 0960

SLC-7312294-1

RECORDED: 12/24/2014