

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ekambar Kandimalla</td> <td>12/19/2011</td> </tr> <tr> <td>Daqing Wang</td> <td>12/15/2011</td> </tr> <tr> <td>Ireneusz Nowak</td> <td>12/19/2011</td> </tr> <tr> <td>Sudhir Agrawal</td> <td>12/07/2011</td> </tr> </tbody> </table>		Name	Execution Date	Ekambar Kandimalla	12/19/2011	Daqing Wang	12/15/2011	Ireneusz Nowak	12/19/2011	Sudhir Agrawal	12/07/2011
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<table border="1"> <tr> <td>Name:</td> <td>Idera Pharmaceuticals, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>167 Sidney Street</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	Idera Pharmaceuticals, Inc.	Street Address:	167 Sidney Street	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139
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CORRESPONDENCE DATA											
<p>Fax Number: (312)876-2020</p> <p>Phone: (312) 876-1800</p> <p>Email: docketing@woodphillips.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: WOOD, PHILLIPS, KATZ, CLARK & MORTIMER</p> <p>Address Line 1: 500 W. MADISON STREET</p> <p>Address Line 2: SUITE 3800</p> <p>Address Line 4: CHICAGO, ILLINOIS 60661</p>											
ATTORNEY DOCKET NUMBER:	IDE10639P00361US										
NAME OF SUBMITTER:	Kristina Swanson										

CH \$40.00 13299555

Total Attachments: 4

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ASSIGNMENT

WHEREAS we, **Ekambar Kandimalla**, being a citizen of the United States of America and residing at 3 Overlook Road, Hopkinton, Massachusetts USA 01748; **Daqing Wang**, being a citizen of Canada and residing at 7 Selfridge Road, Bedford, Massachusetts USA 01730; **Ireneusz Nowak**, being a citizen of Poland and residing at 592 Cambridge Street, #22, Allston, Massachusetts USA 02134; and **Sudhir Agrawal**, being a citizen of the United States of America and residing at 61 Lamplighter Drive, Shrewsbury, Massachusetts USA 01545, are inventors of certain new and useful inventions and discoveries, for which we have made an application for Letters Patent entitled **IMMUNE REGULATORY OLIGONUCLEOTIDE (IRO) COMPOUNDS TO MODULATE TOLL-LIKE RECEPTOR BASED IMMUNE RESPONSE**, which application was filed in the United States Patent and Trademark Office on November 18, 2011, and assigned Serial No. 13/299,555; and

WHEREAS Idera Pharmaceuticals, Inc., a corporation existing under the laws of Delaware, whose address is 167 Sidney Street, Cambridge, MA 02139, which together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring all right, title, interest, benefits, and privileges to and under said inventions and discoveries as hereinafter recited;

NOW THEREFORE, for and in consideration of good and valuable consideration furnished by ASSIGNEE to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer and convey to ASSIGNEE the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be

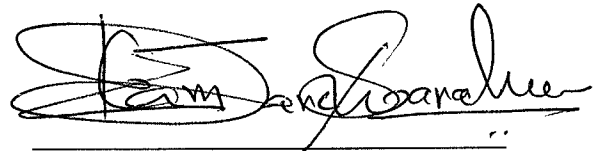
predicated upon, or arise from, said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered official of any other governments throughout the world to issue or transfer all said Letters Patent to ASSIGNEE as ASSIGNEE of the entire right, title and interest therein or otherwise as ASSIGNEE may direct;
4. Warrant that we have the full right to convey the entire right, title and interest herein assigned without encumbrance and have not knowingly conveyed to others any right, title or interest in said inventions, discoveries, applications or patents or any license to use the same, or to make, use, sell or import anything embodying or utilizing any of said inventions or discoveries;
5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to us or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns as if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications and oaths, and all assignments, disclaimers and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to me relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples and

other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said invention and discoveries.

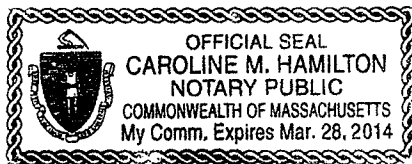
IN TESTIMONY WHEREOF, we have hereunto set our hands and seals.

Date: 19 Dec. 2011



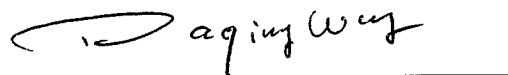
Ekambar Kandimalla

Then personally appeared before me this 19th day of December, 2011,
the above named Ekambar Kandimalla who acknowledged the execution of the foregoing
instrument to be his free act and deed.



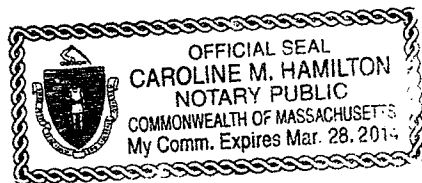
Caroline M. Hamilton
Notary Public

Date: 12/15/11



Daqing Wang

Then personally appeared before me this 15th day of December, 2011,
the above named Daqing Wang who acknowledged the execution of the foregoing
instrument to be his free act and deed.



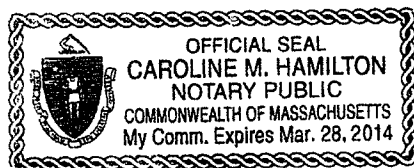
Caroline M. Hamilton
Notary Public

Date: 19 Dec. 2011

Ireneusz Nowak

Ireneusz Nowak

Then personally appeared before me this 19th day of December, 2011,
the above named Ireneusz Nowak who acknowledged the execution of the foregoing
instrument to be his free act and deed.

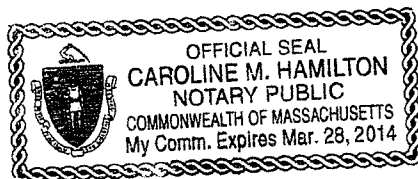


Caroline M. Hamilton
Notary Public

Date: 7 Dec. 2011

Sudhir Agrawal
Sudhir Agrawal

Then personally appeared before me this 7th day of December, 2011,
the above named Sudhir Agrawal who acknowledged the execution of the foregoing
instrument to be his free act and deed.



Caroline M. Hamilton
Notary Public