

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Alexander G. Dickinson</td> <td>05/04/2012</td> </tr> <tr> <td>Francisco Jose Garcia</td> <td>05/04/2012</td> </tr> <tr> <td>Robert C. Kain</td> <td>05/08/2012</td> </tr> <tr> <td>Scott D. Kahn</td> <td>05/01/2012</td> </tr> <tr> <td>Andrew R. Nelson</td> <td>04/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Alexander G. Dickinson	05/04/2012	Francisco Jose Garcia	05/04/2012	Robert C. Kain	05/08/2012	Scott D. Kahn	05/01/2012	Andrew R. Nelson	04/30/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Illumina, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>5200 Illumina Way</td> </tr> <tr> <td>City:</td> <td>San Diego</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92122</td> </tr> </table>		Name:	Illumina, Inc.	Street Address:	5200 Illumina Way	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92122		
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PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13790596</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13790596								
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CORRESPONDENCE DATA													
<p>Fax Number: 8587368428  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: ip@illumina.com          Correspondent Name: John T. Murphy          Address Line 1: 5200 Illumina Way          Address Line 4: San Diego, CALIFORNIA 92122</p>													
ATTORNEY DOCKET NUMBER:	IP-0631-US												
NAME OF SUBMITTER:	John T. Murphy												
Signature:	/John Murphy/												

Date:

05/15/2013

**Total Attachments: 8**

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**ASSIGNMENT OF IP RIGHTS TO ILLUMINA, INC.**

WHEREAS, each one of the undersigned:

Name: **Alexander G. Dickinson**  
Address: 5200 Illumina Way  
San Diego, CA 92122

Name: **Francisco Jose Garcia**  
Address: 5200 Illumina Way  
San Diego, CA 92122

Name: **Robert C. Kain**  
Address: 5200 Illumina Way  
San Diego, CA 92122

Name: **Scott D. Kahn**  
Address: 5200 Illumina Way  
San Diego, CA 92122

Name: **Andrew R. Nelson**  
Address: Little Chesterford  
Nr Saffron Walden, Essex CB10 1XL  
United Kingdom

(collectively "the Assignor/s") have made certain new and useful inventions, discoveries, and improvements (the "Inventions"), for which the Assignor/s filed the following application/s:

File No.:	IP-0631-PRV	Outside ref.:	ILUM:0030PRO
Title:	CLOUD COMPUTING ENVIRONMENT FOR BIOLOGICAL DATA		
Ser. No.:	61/622,763	Filed:	April 11, 2012

and now desire/s to convey all right, title, and interest in:

- the Inventions,
- the application/s listed above, and any other applications for patent, design, utility model, certificate of invention, trademark, or trade dress, in any country or under any international or regional authority (e.g. WIPO/PCT, EPO, ARIPO, EAPO, OAPI), to the extent some or all of its subject matter is disclosed and entitled to the benefit of priority in the application/s listed above, including provisional, continuation,

Assignment of IP Rights to ILLUMINA, INC.

Assignors: Dickinson et al.

File Number: IP-0631-PRV

divisional, continuation-in-part, reissue, and reexamination applications (collectively "the Application/s"),

- the benefit of earlier filing date and right to claim priority to the Inventions and Application/s under applicable law and treaties, including the Paris Convention for the Protection of Industrial Property as revised and amended and 35 U.S.C. §§ 119, 120,
- any rights accrued by the publication of the Application/s, such as 35 U.S.C. § 154(d), Art. 67(1) EPC,
- any Letters Patent or Certificates of Invention that may be issued or granted from the Application/s, including reissued patents, reexamination certificates, renewals, and any rights resulting from an extension or adjustment of patent term, and
- any rights arising from the Invention under laws and conventions protecting copyright, trademark, trade dress, or other industrial property,

(collectively, "the IP Rights"), and

WHEREAS, ILLUMINA, INC., a Delaware corporation having a place of business at 5200 Illumina Way, San Diego, CA 92122, United States of America is desirous of acquiring the entire right, title, and interest for itself, its successors, and its assigns (collectively "the Assignee") in the IP Rights by an instrument in writing, 35 U.S.C. § 261;

NOW, THEREFORE, to all whom it may concern, be it known that, for good and valuable consideration, the receipt and sufficiency of which I/we hereby acknowledge and hereby waive the right to any additional compensation concerning the IP Rights:

I/we warrant and represent to the Assignee that I/we have the full right to convey my/our right, title, and interest in the IP Rights without encumbrance, and that I/we have not made any earlier assignment, license, grant, or mortgage to another, or made any agreement with another, that would affect my/our right, title, and interest in the IP Rights;

By this Assignment and by virtue of any earlier agreements to assign, I/we hereby assign, transfer, convey, and sell my/our entire right, title, and interest in the IP Rights to the Assignee, including any claims or causes of action for damages or other remedies arising out of any earlier violation of the IP Rights, for and to inure to the Assignee's full benefit of the IP Rights as fully as they would have been held by me/us if this Assignment had not been made;

I/we authorize the Assignee and its legal representatives to:

- (a) insert into this Assignment any supplemental information to make the identification more complete for any of the Application/s or Letters Patent already listed above,

- (b) prosecute the Application/s, file new applications for the Invention/s, and do all acts permitted by law to protect and enforce the IP Rights,
- (c) request that Letters Patent and Certificates of Invention be issued and granted to and in the name of the Assignee by the issuing or granting authority, such as the U.S. Commissioner for Patents, 37 C.F.R. § 3.81; and

I/we agree with the Assignee that I/we and my/our legal representatives, heirs, and executors will perform all acts deemed necessary or desirable by the Assignee to permit and assist it to secure the entire right, title, and interest in the IP Rights so that the Assignee may benefit from this Assignment, including:

- (a) communicating to the Assignee all facts known to me/us that relate to the history and extent of my individual contribution to the IP Rights, including the circumstances of the conception of the invention and its development and reduction to practice, and furnishing supporting documents or items in my control,
- (b) assisting in the preparation of the Application/s and their prosecution by the Assignee, 37 C.F.R. § 3.71, and in the enforcement of the IP Rights, including making, executing, and delivering to the Assignee any other necessary documents, such as further application papers, declarations, affidavits, disclaimers, petitions, or assignments, and
- (c) assisting and cooperating in administrative and legal proceedings, including giving written and oral testimony,

so that these will be performed without further consideration, except for reasonable actual expenses to be reimbursed by the Assignee.

I/we further agree with the Assignee that I/we will not perform any future act, execute any subsequent document, or make any subsequent agreement with another person or party that conflicts with this Assignment, that purports to transfer any right, title, or interest in the IP Rights that are the subject of this Assignment, unless agreed to in writing by the Assignee or that prevents the Assignee from receiving the full benefit of the bargain under this Assignment.

If any provision of this Assignment is held invalid or unenforceable, that provision shall be enforced to the maximum extent permissible in order to put into effect the intent of the Assignor/s and the Assignee, and the remainder of this Assignment shall not be affected, but continue in full force and effect.

This document shall be executable by each Assignor in parts, and the Assignment will be effective and recordable for each Assignor as of the date of that Assignor's signature.

Assignment of IP Rights to ILLUMINA, INC.

Assignors: Dickinson et al.

File Number: IP-0631-PRV

In testimony of this Assignment, I am signing and dating this document below:

Name: Alexander G. Dickinson

Signature: \_\_\_\_\_

Date: 5-4-12

### ACKNOWLEDGMENT

State of California  
County of San Diego

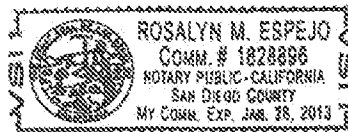
On May 4, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Alexander G. Dickinson  
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 the 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: Rosalyn M. Espejo (Seal)



Assignment of IP Rights to ILLUMINA, INC.  
Assignors: Dickinson et al.  
File Number: IP-0631-PRV

In testimony of this Assignment, I am signing and dating this document below:

Name: **Francisco Jose Garcia**

Signature: *[Handwritten Signature]*

Date: 5/4/12

### ACKNOWLEDGMENT

State of California,

County of San Diego

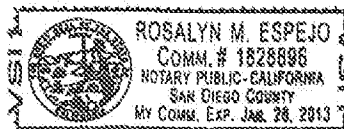
On May 4, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Francisco Jose Garcia  
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 the 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 *[Handwritten Signature]* (Seal)



Assignment of IP Rights to ILLUMINA, INC.

Assignors: Dickinson et al.

File Number: IP-0631-PRV

In testimony of this Assignment, I am signing and dating this document below:

Name: **Robert C. Kain**

Signature: *RC Kain*

Date: May 8, 2012 *RC K*

### ACKNOWLEDGMENT

State of California

County of San Diego

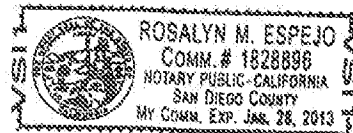
On May 8, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Robert C. Kain  
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 the 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 *Rosalyn M. Espejo* (Seal)





Assignment of IP Rights to ILLUMINA, INC.

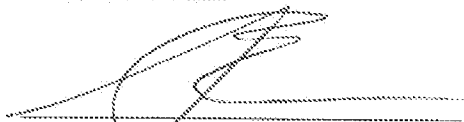
Assignors: Dickinson et al.

File Number: IP-0631-PRV

In testimony of this Assignment, I am signing and dating this document below:

Name: **Scott D. Kahn**

Signature:



Date:

5/1/2012

### ACKNOWLEDGMENT

State of California

County of San Diego

On May 1, 2012 before me, Rosalyn M. Espejo, Notary Public  
(insert name and title of the officer)

personally appeared Scott D. Kahn  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~  
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 Rosalyn M. Espejo (Seal)



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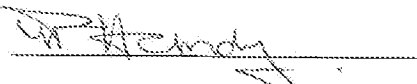
In testimony of this Assignment, I am signing and dating this document below:

Name: **Andrew R. Nelson**

Signature: 

Date: 30 APR 2012

Witness Name: Yvonne Handy

Witness Signature: 

Date: 30/04/12