# CH \$315.00 543954

# TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 ETAS ID: TM515542

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

#### **CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
BIONANO GENOMICS, INC.		03/22/2019	Corporation: DELAWARE

## **RECEIVING PARTY DATA**

Name:	INNOVATUS LIFE SCIENCES LENDING FUND I, LP
Street Address:	777 THIRD AVENUE
Internal Address:	25TH FLOOR
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10017
Entity Type:	Limited Partnership: DELAWARE

#### **PROPERTY NUMBERS Total: 12**

Number	Word Mark					
5439542	BIONANO ACCESS					
5434448	SAPHYR					
5434447	SAPHYR CHIP					
4646747	BIONANO GENOMICS					
4708378	IRYSSOLVE					
5076021	BIONANO GENOMICS					
5045903	BIONANO GENOMICS					
4502412	IRYSPREP					
4502411	IRYSCHIP					
4452118	IRYSVIEW					
4518478	BIONANO GENOMICS					
4544066	IRYS					
	5439542 5434448 5434447 4646747 4708378 5076021 5045903 4502412 4502411 4452118 4518478					

#### CORRESPONDENCE DATA

**Fax Number:** 6785532602

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: 67855323601 Email: jimmarl@gtlaw.com

TRADEMARK
REEL: 006598 FRAME: 0275

900490839

Correspondent Name: LaShana C. Jimmar, Paralegal Address Line 1: GREENBERG TRAURIG, LLP

Address Line 2: 3333 PIEDMONT ROAD, NE, SUITE 2500

Address Line 4: Atlanta, GEORGIA 30305

ATTORNEY DOCKET NUMBER:	176634.010400	
NAME OF SUBMITTER:	LaShana C. Jimmar	
SIGNATURE:	/LaShana C. Jimmar/	
DATE SIGNED:	03/22/2019	

## **Total Attachments: 16**

source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page1.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page2.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page3.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page4.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page5.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page6.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page7.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page8.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page9.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page10.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page11.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page12.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page13.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page14.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page15.tif source=Innovatus (Bionano)- IP Security Agreement- LSA- Innovatus (GT)- Mar-2019#page16.tif

#### INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of March 22, 2019, by and between INNOVATUS LIFE SCIENCES LENDING FUND I, LP, as collateral agent for the Lenders (the "Lenders") described in the Loan Agreement (as defined below) (in such capacity, the "Collateral Agent") and BIONANO GENOMICS, INC., a Delaware corporation ("Grantor").

#### **RECITALS**

- A. Lenders have agreed to make certain advances of money and to extend certain financial accommodation to Grantor (the "Loans") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Collateral Agent, the Lenders and Grantor dated the Effective Date (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement). The Lenders are willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Collateral Agent, for the benefit of the Lenders, a security interest in certain Copyrights, Trademarks, Patents, and Mask Works to secure the obligations of Grantor under the Loan Agreement.
- B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Collateral Agent, for the benefit of the Lenders, a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

#### **AGREEMENT**

To secure its obligations under the Loan Agreement, Grantor grants and pledges to Collateral Agent, for the benefit of the Lenders, a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property Collateral (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Collateral Agent, for the benefit of the Lenders, under the Loan Agreement. The rights and remedies of Collateral Agent with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Collateral Agent, for the benefit of the Lenders, as a matter of law or equity. Each right, power and remedy of Collateral Agent provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Collateral Agent of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Lender, of any or all other rights, powers or remedies.

### **GOVERNING LAW**

THIS AGREEMENT AND ALL DISPUTES AND OTHER MATTERS RELATING HERETO (WHETHER SOUNDING IN CONTRACT LAW, TORT LAW OR OTHERWISE), SHALL BE GOVERNED BY, AND SHALL BE CONSTRUED AND ENFORCED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK, WITHOUT REGARD TO CONFLICTS OF LAWS PRINCIPLES (OTHER THAN SECTION 5-1401 OF THE GENERAL OBLIGATIONS LAW).

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IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

	GRANTOR:
Address of Grantor:	BIONANO GENOMICS, INC.
9540 Towne Centre, #100 San Diego, CA 92121	By: Robert Erik Holmlin
	Title: Chief Executive Officer
	COLLATERAL AGENT:
Address of Lender:	INNOVATUS LIFE SCIENCES LENDING FUND I, LP
	By: Innovatus Life Sciences GP, LP, its general partner
777 Third Avenue, 25th Floor New York, NY 10017	By:

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

	GRANTOR:
Address of Grantor:	BIONANO GENOMICS, INC.
9540 Towne Centre, #100 San Diego, CA 92121	By:
Address of Lender:	COLLATERAL AGENT: INNOVATUS LIFE SCIENCES LENDING FUND I, LP
	By: Innovatus Life Sciences GP, LP, its general partner
777 Third Avenue, 25th Floor New York, NY 10017	Title Archanized Sanaton

# EXHIBIT A

Copyrights

<u>Description</u> <u>Registration Number</u> <u>Registration Date</u>

None.

# EXHIBIT B

## Patents

Grantor	Description	Country	Registration/ App.	<u>File</u>	<u>Status</u>
			<u>No.</u>	Date/Issue	
Bionano	Methods of Macromolecular	US	15/062,622	<b>Date</b> 3/7/2016	Registered
Genomics,	Analysis Using Nanochannel Arrays		10,000,804	6/19/2018	Patent
Bionano Genomics,	Polynucleotide Mapping and Sequencing	US	14/877,818 10,000,803	10/7/2015 6/19/2018	Registered Patent
Inc.	Sequeneing		10,000,803	0/15/2018	1 atont
Bionano	Nanonozzle Device Arrays:	US	14/712,816	5/14/2015	Registered
Genomics, Inc.	Their Preparation and Use for Macromolecular Analysis		9,845,238	12/19/2017	Patent
Bionano	Characterization of Molecules	US	14/768,422	8/17/2015	Registered
Genomics, Inc.	in Nanofluidics		9,809,855	11/7/2017	Patent
Bionano	Embedded Noble Metal	US	14/952,161	11/25/2015	Registered
Genomics, Inc.	Electrodes in Microfluidics		9,804,122	10/31/2017	Patent
Bionano	Nanochannel Arrays and Near-	US	13/498,846	6/13/2012	Registered
Genomics,	Field Illumination Devices for		9,725,315	8/8/2017	Patent
Inc.	Polymer Analysis and Related Methods				
Bionano	Methods and Devices for	US	13/765,353	2/12/2013	Registered
Genomics, Inc.	Single-Molecule Whole Genome Analysis		9,536,041	1/3/2017	Patent
Bionano	Integrated Analysis Devices and	US	12/996,410	2/16/2011	Registered
Genomics,	Related Fabrication Methods		9,533,879	1/3/2017	Patent
Inc.	and Analysis Techniques				
Bionano	Methods of Macromolecular	US	14/195,474	3/3/2014	Registered
Genomics, Inc.	Analysis Using Nanochannel Arrays		9,310,376	4/12/2016	Patent
Bionano	Polynucleotide Mapping and	US	13/129,634	6/23/2011	Registered
Genomics,	Sequencing		9,181,578	11/10/2015	Patent
Inc.	N 1 D : A	TIC	10/274 141	0/25/2000	D : 1
Bionano Genomics,	Nanonozzle Device Arrays: Their Preparation and Use for	US	12/374,141 9,061,901	8/25/2009 6/23/2015	Registered Patent
Inc.	Macromolecular Analysis		9,001,901	0/23/2013	1 atent
Bionano	Methods of Macromolecular	US	12/057,987	3/28/2008	Registered
Genomics,	Analysis Using Nanochannel		8,722,327	5/13/2014	Patent
Inc.	Arrays				
Bionano	Methods and Devices for	US	13/001,697	3/22/2011	Registered
Genomics, Inc.	Single-Molecule Whole Genome Analysis		8,628,919	1/14/2014	Patent
Bionano	Processing of Polynucleotides	US	15/123,457	9/2/2016	Pending
Genomics, Inc.	Trocessing of Forymacicottees		13/123,437	3/2/2010	Tending
Bionano	Reduction of Bias in Genomic	US	15/117,689	8/9/2016	Pending
Genomics,	Coverage Measurements				
Inc.					

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Bionano Genomics, Inc.	Analysis of Polynucleotides	US	14/897,213	12/9/2015	Pending
Bionano Genomics, Inc.	Methods for Single-Molecule Analysis	US	14/765,537	8/3/2015	Pending
Bionano Genomics, Inc.	Improved Methods of Determining Nucleic Acid Structural Information	US	15/117,699	8/9/2016	Pending
Bionano Genomics, Inc.	Photocleavage Method and Apparatus to Clean Fluidic Devices	US	15/507,416	2/28/2017	Pending
Bionano Genomics, Inc.	Methods and Devices for Single-Molecule Whole Genome Analysis	US	15/381,787	12/16/2016	Pending
Bionano Genomics, Inc.	Integrated Analysis Devices and Related Fabrication Methods and Analysis Techniques	US	15/385,302	12/20/2016	Pending
Bionano Genomics, Inc.	Characterization of Molecules in Nanofluidics	US	15/795,847	10/27/2017	Pending
Bionano Genomics, Inc.	Nanonozzle Device Arrays: Their Preparation and Use for Macromolecular Analysis	US	15/801,081	11/1/2017	Pending
Bionano Genomics, Inc.	Improved Methods of Determining Nucleic Acid Structural Information	US	15/11769	8/9/16	Pending
Bionano Genomics, Inc.	Reduction of bias in genomic coverage measurement	US	EP15708652.1-1403	2/24/15	Pending
Bionano Genomics, Inc.	Labeling of DNA	US	new	6/25/18	Pending
Bionano Genomics, Inc.	Nanonozzle device arrays: their preparation and use for macromolecular analysis	WO	PCT/US07/16408 WO/2008/079169	7/19/07 7/3/08	Converted
Bionano Genomics, Inc.	Nanonozzle device arrays: their preparation and use for macromolecular analysis	AU	2007338862 AU2007338862	7/19/07 5/24/14	Issued
Bionano Genomics, Inc.	Nanonozzle device arrays: their preparation and use for macromolecular analysis	CA	CA2658122 CA2658122	7/19/07 9/2/14	Issued
Bionano Genomics, Inc.	Nanonozzle device arrays: their preparation and use for macromolecular analysis	CN	201310054745.1 CN103203256 ZL201310054745.1	2/20/13	Issued
Bionano Genomics, Inc.	Nanonozzle device arrays: their preparation and use for macromolecular analysis	EP	EP2007872156 EP2049262	7/19/07	Pending
Bionano Genomics, Inc.	Nanonozzle device arrays: their preparation and use for macromolecular analysis	JР	2014-089510 JP2014-158493A JP6030599	10/28/16	Issued

Bionano Genomics, Inc.	Nanonozzle device arrays: their preparation and use for macromolecular analysis	SG	2011-05244-6 SG173,398	7/19/07	Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	WO	PCT/US2008/058671 WO/2008/121828	3/28/08 10/9/08	Converted
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	AU	AU2008232616 AU2008232616	3/28/08 11/20/14	Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	CA	CA2,682,275 CA2,682,275	3/28/08 5/9/17	Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	CA	CA2964611	4/13/17	Pending
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	CN	CN200880017550.7 ZL2008800017550.70	3/28/08 6/5/13	Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	CN	CN201310189106.6	5/21/13	Pending
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	EP	2008-744609.2 EP2136922	3/28/08 12/5/12	Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	GB	2008-744609.2 EP2136922		Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	FR	2008-744609.2 EP2136922		Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	DE	2008-744609.2 EP2136922		Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	SE	2008-744609.2 EP2136922	3/28/08 12/5/12	Issued
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	EP	2013150068.8 EP2604344	1/2/13	Pending
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	НК	10104929.6	3./28/08	Pending
Bionano Genomics, Inc.	Methods of macromolecular analysis using nanochannel arrays	JР	2010-501259 JP5,491,378	3./28/08 3/7/14	Issued

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Genomics, Inc.	molecule whole genomic analysis	JP	JP5730762	4/17/2015	Issued
Bionano Genomics, Inc.	Methods and devices for single molecule whole genomic analysis	JP	2015078505 JP2015163073	6/30/2009 9/11/2015	Issued
Bionano Genomics, Inc.	Integrated nanofluidic analysis devices, fabrication methods and analysis techniques	WO	PCT/US2009/046427 WO/2009/149362	6/5/09 12/10/09	Converted
Bionano Genomics, Inc.	Integrated nanofluidic analysis devices, fabrication methods and analysis techniques	AU	2009256064 AU2009256064	6/5/2009 8/13/2015	Issued
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Bionano Genomics, Inc.	Integrated nanofluidic analysis devices, fabrication methods and analysis techniques	CA	2727095	6/5/09	Pending
Bionano Genomics, Inc.	Integrated nanofluidic analysis devices, fabrication methods and analysis techniques	CN	2009-80130482 ZL200980154567.1	6/5/2009 11/26/14	Issued
Bionano Genomics, Inc.	Integrated nanofluidic analysis devices, fabrication methods and analysis techniques	CN	CN201410462892.7 CN104359874 ZL201410462892.7	9/12/14 2/18/15 7/3/18	Issued
Bionano Genomics, Inc.	Integrated nanofluidic analysis devices, fabrication methods and analysis techniques	EP	2009759520	6/5/09	Pending
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Bionano Genomics, Inc.	Integrated nanofluidic analysis devices, fabrication methods and analysis techniques	SG	2010-08920-9 2010-08920-9	6/5/2009 7/31/13	Issued
Bionano Genomics, Inc.	Integrated nanofluidic analysis devices, fabrication methods and analysis techniques	KR	10-2016-7001826 KR10-1767125	1/21/2016 9/4/17	Issued
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	WO	PCT/US2009/064996 WO/2010/059731	11/18/09 5/27/2010	Converted
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	AU	AU2009316628 AU2009316628	11/18/09	Issued
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	CA	CA2744064	11/18/09	Pending
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	CN	2009-80154567.10 ZL20098015456.7	11/18/09 9/24/14	Issued

Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	CN	CN201610248998.6 CN105930689 ZL201410584764	11/18/09 3/30/18	Issued
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	EP	2009-760398.9 EP2370594	11/18/09 1/8/14	Granted
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	GB	2009-760398.9	11/18/09	Granted
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	FR	2009-760398.9	11/18/09	Granted
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	DE	2009-760398.9	11/18/09	Granted
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	НК	12105207.4 HK1166107	11/18/09	Granted
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	НК	15108141.4 HK1207404A	11/18/09 1/29/16	Pending
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	JP	2011537585 JP5846703	11/18/09	Issued
Bionano Genomics, Inc.	Polynucleotide mapping and sequencing	SG	2011-03550-8 SG171,325	11/18/09 11/29/13	Issued
Bionano Genomics, Inc.	Nanoanalyzer Systems and Methods	AU	AU2011316989 AU2011316989	4/18/13	Issued
Bionano Genomics, Inc.	Systems and methods for assessing biomolecule characteristics	CN	CN103443290A CN201180060380.2 ZL201180060380.2	12/11/13 6/14/13 6/8/16	Issued
Bionano Genomics, Inc.	Systems and methods for assessing biomolecule characteristics	CN	CN20160365650.5 CN106048000A	5/27/2016 10/26/16	Pending
Bionano Genomics, Inc.	Systems and methods for assessing biomolecule characteristics	НК	HK14105511.3 HK1192287	6/11/14 9/1/17	Issued
Bionano Genomics, Inc.	Systems and methods for assessing biomolecule characteristics	НК	new	new	Pending
Bionano Genomics, Inc.	Systems and methods for assessing biomolecule characteristics	SG	201302736-2	8/28/13	Pending
Bionano Genomics, Inc.	Nanochannel arrays and near- field illumination devices for polymer analysis and related methods	CN	2010-80043518.3 ZL201080043518.3	9/27/10 9/5/17	Issued
Bionano Genomics, Inc.	Methods for single-molecule analysis	WO	PCT/US2014/014501 WO2014/123822	2/4/14	Expired
Bionano Genomics, Inc.	Methods for single-molecule analysis	AU	AU2014215586	2/4/14	Pending

Bionano Genomics, Inc.	Methods for single-molecule analysis	CA	CA2900054	2/4/14	Pending
Bionano Genomics, Inc.	Methods for single-molecule analysis	CN	201480007595.1 CN105143462	2/4/2014 12/9/15	Pending
Bionano Genomics, Inc.	Methods for single-molecule analysis	НК	HK16105786.9	5/20/16	Pending
Bionano Genomics, Inc.	Methods for single-molecule analysis	EP	EP14748636.9	2/4/14	Pending
Bionano Genomics, Inc.	Methods for single-molecule analysis	JР	JP2015-556985	2/4/14	Pending
Bionano Genomics, Inc.	Characterization of Molecules in Nanofluidics	AU	AU2014219001	2/19/14	Pending
Bionano Genomics, Inc.	Characterization of Molecules in Nanofluidics	CA	CA2901460	2/19/14	Pending
Bionano Genomics, Inc.	Characterization of Molecules in Nanofluidics	EP	EP14753475.4	2/19/14	Pending
Bionano Genomics, Inc.	Characterization of Molecules in Nanofluidics	CN	CN105229168	2/19/14	Pending
Bionano Genomics, Inc.	Characterization of Molecules in Nanofluidics	НК	HK16107465.3	6/27/16	Pending
Bionano Genomics, Inc.	Characterization of Molecules in Nanofluidics	JР	JP2016510590	2/19/14	Alowed
Bionano Genomics, Inc.	System for Nanoanalysis	RU	2013140977 RU142580	8/2/2013 5/27/14	Issued
Bionano Genomics, Inc.	System for Nanoanalysis	WO	PCT/US2014/049442 WO2015017801	8/1/2014 4/23/15	Abandoned
Bionano Genomics, Inc.	Analysis of Polynucleotides	WO	PCT/US14/41568 WO2014/200926	6/9/14 12/18/14	Expired
Bionano Genomics, Inc.	Analysis of Polynucleotides	CN	201480044219.X	6/9/14	Pending
Bionano Genomics, Inc.	Analysis of Polynucleotides	НК	HK16113120.8 HK1225072A	11/15/2016 9/1/17	Pending
Bionano Genomics, Inc.	Analysis of Polynucleotides	JР	2016-519575	6/10/13	Pending

Bionano Genomics, Inc.	Improved Methods of Determining Nucleic Acid Structural Information	CN	CN201580009351.1	8/18/16	Pending
Bionano Genomics, Inc.	Improved Methods of Determining Nucleic Acid Structural Information	НК	HK17103327.9	3/31/17	Pending
Bionano Genomics, Inc.	Photocleavage method and apparatus to clean fluidic devices	WO	PCT/US2015/047688 WO2016036647	8/31/14	Pending
Bionano Genomics, Inc.	Photocleavage method and apparatus to clean fluidic devices	EP	15763711.7	3/29/17	Pending
Bionano Genomics, Inc.	Photocleavage method and apparatus to clean fluidic devices	CN	CN201580055371.2 CN107073472	4/12/17 8/18/17	Pending
Bionano Genomics, Inc.	Photocleavage method and apparatus to clean fluidic devices	JР	JP2017512288	3/2/17	Pending
Bionano Genomics, Inc.	Photocleavage method and apparatus to clean fluidic devices	SG	SG11201702707Q	3/31/17	Pending
Bionano Genomics, Inc.	Reduction of bias in genomic coverage measurement	WO	PCT/US2015/017356 WO2015130696	2/24/15	Expired
Bionano Genomics, Inc.	Reduction of bias in genomic coverage measurement	CN	CN201580016272.3	1/8/15	Pending

# EXHIBIT C

## **US Trademarks**

Grantor	<u>Mark</u>	Registration/ App. No.	File Date/Issue Date	Status
Bionano Genomics, Inc.	BIONANO ACCESS	87/375,426 5,439,542	3/17/2017 4/3/2018	Registered
Bionano Genomics, Inc.	SAPHYR	87/314,801 5,434,448	1/26/2017 3/27/2018	Registered
Bionano Genomics, Inc.	SAPHYR CHIP	87/314,787 5,434,447	1/26/2017 3/27/2018	Registered
Bionano Genomics, Inc.	BIONANO GENOMICS	86/975,215 4,646,747	8/28/2013 11/25/2014	Registered
Bionano Genomics, Inc.	IRYSSOLVE	86/400,672 4,708,378	9/19/2014 3/24/2015	Registered
Bionano Genomics, Inc.	- BIONANO GENOMICS	86/361,387 5,076,021	8/8/2014 11/8/2016	Registered
Bionano Genomics, Inc.	BIONANO GENOMICS	86/050,497 5,045,903	8/28/2013 9/20/2016	Registered
Bionano Genomics, Inc.	IRYSPREP	85/677,075 4,502,412	7/13/2012 3/25/2014	Registered
Bionano Genomics, Inc.	IRYSCHIP	85/677,063 4,502,411	7/13/2012 3/25/2014	Registered
Bionano Genomics, Inc.	IRYSVIEW	85/677,059 4,452,118	7/13/2012 12/17/2013	Registered
Bionano Genomics, Inc.	BIONANO GENOMICS	85/677,046 4,518,478	7/13/2012 4/22/2014	Registered
Bionano Genomics, Inc.	IRYS	85/677,024 4,544,066	7/13/2012 6/3/2014	Registered

# Foreign Trademarks

Grantor	Trademark	Country	Status	Registration No
Bionano Genomics,	BIONANO GENOMICS	LB	Registered	146661
Inc.				
Bionano Genomics,	BIONANO GENOMICS	WO	Registered	1147820
Inc.				
Bionano Genomics,	IRYS	AU	Registered	1150083
Inc.				
Bionano Genomics,	IRYS	CN	Registered	1150083
Inc.				
Bionano Genomics,	IRYS	EM	Registered	1150083
Inc.			_	

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Grantor	Trademark	Country	Status	Registration No
Bionano Genomics, Inc.	IRYS	JP	Registered	1150083
Bionano Genomics, Inc.	IRYS	KR	Registered	1150083
Bionano Genomics, Inc.	IRYS	HK	Registered	303501017
Bionano Genomics, Inc.	IRYS	TW	Registered	1766911
Bionano Genomics, Inc.	IRYS	WO	Registered	1150083
Bionano Genomics, Inc.	IRYSVIEW	AU	Registered	1151113
Bionano Genomics, Inc.	IRYSVIEW	CN	Registered	1151113
Bionano Genomics, Inc.	IRYSVIEW	EM	Registered	1151113
Bionano Genomics, Inc.	IRYSVIEW	JP	Registered	1151113
Bionano Genomics, Inc.	IRYSVIEW	KR	Registered	1151113
Bionano Genomics, Inc.	IRYSVIEW	HK	Registered	303501026
Bionano Genomics, Inc.	IRYSVIEW	TW	Registered	1766912
Bionano Genomics, Inc.	IRYSVIEW	WO	Registered	1151113
Bionano Genomics, Inc.	IRYSCHIP	AU	Registered	1150576
Bionano Genomics, Inc.	IRYSCHIP	CN	Registered	1150576
Bionano Genomics, Inc.	IRYSCHIP	EM	Registered	1150576
Bionano Genomics, Inc.	IRYSCHIP	JP	Registered	1150576
Bionano Genomics, Inc.	IRYSCHIP	KR	Registered	1150576
Bionano Genomics, Inc.	IRYSCHIP	US	Registered	4502411
Bionano Genomics, Inc.	IRYSCHIP	HK	Registered	303500991
Bionano Genomics, Inc.	IRYSCHIP	TW	Registered	1782428
Bionano Genomics, Inc.	IRYSCHIP	WO	Registered	1150576
Bionano Genomics, Inc.	IRYSPREP	AU	Registered	1161517
Bionano Genomics, Inc.	IRYSPREP	CN	Registered	1161517
Bionano Genomics, Inc.	IRYSPREP	EM	Registered	1161517
Bionano Genomics, Inc.	IRYSPREP	JP	Registered	1161517

Grantor	Trademark	Country	Status	Registration No
Bionano Genomics, Inc.	IRYSPREP	KR	Registered	1161517
Bionano Genomics, Inc.	IRYSPREP	HK	Registered	303501035
Bionano Genomics, Inc.	IRYSPREP	TW	Registered	1776408
Bionano Genomics, Inc.	IRYSPREP	WO	Registered	1161517
Bionano Genomics, Inc.	(IRYS in Chinese Characters)	CN	Registered	12190539
Bionano Genomics, Inc.	BIONANO GENOMICS	AU	Registered	1713142
Bionano Genomics, Inc.	BIONANO GENOMICS	HK	Registered	303501044
Bionano Genomics, Inc.	BIONANO GENOMICS	JР	Registered	5924011
Bionano Genomics, Inc.	BIONANO GENOMICS	TW	Pending	
Bionano Genomics, Inc.	BIONANO GENOMICS	WO	Registered	1219073
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	CN	Registered	1267947
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	EM	Registered	1267947
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	US	Registered	5076021
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	AU	Registered	1717010
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	HK	Registered	303501053
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	JP	Registered	5924012
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	KR	Registered	45-0069219
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	TW	Pending	
Bionano Genomics, Inc.	BIONANO GENOMICS (stylized and/or with design)	WO	Registered	1267947
Bionano Genomics, Inc.	BIONANO GENOMICS	CN	Registered	14408014
Bionano Genomics, Inc.	IRYSSOLVE	AU	Registered	1253507
Bionano Genomics, Inc.	IRYSSOLVE	CN	Registered	1253507
Bionano Genomics, Inc.	IRYSSOLVE	EM	Registered	1253507
Bionano Genomics, Inc.	IRYSSOLVE	JP	Registered	1253507
Bionano Genomics, Inc.	IRYSSOLVE	KR	Registered	1253507
Bionano Genomics, Inc.	IRYSSOLVE	HK	Registered	303501008

Grantor	Trademark	Country	Status	Registration No
Bionano Genomics, Inc.	IRYSSOLVE	TW	Registered	1766913
Bionano Genomics, Inc.	IRYSSOLVE	WO	Registered	1253507
Bionano Genomics, Inc.	SAPHYR	AU	Registered	1362900
Bionano Genomics, Inc.	SAPHYR	CN	Pending	
Bionano Genomics, Inc.	SAPHYR	EM	Registered	1362900
Bionano Genomics, Inc.	SAPHYR	JP	Registered	1362900
Bionano Genomics, Inc.	SAPHYR	KR	Published	
Bionano Genomics, Inc.	SAPHYR	НК	Registered	304212684
Bionano Genomics, Inc.	SAPHYR	TW	Registered	1916579
Bionano Genomics, Inc.	SAPHYR	WO	Registered	1362900
Bionano Genomics, Inc.	SAPHYR CHIP	AU	Registered	1363411
Bionano Genomics, Inc.	SAPHYR CHIP	CN	Pending	
Bionano Genomics, Inc.	SAPHYR CHIP	EM	Registered	1363411
Bionano Genomics, Inc.	SAPHYR CHIP	JP	Registered	1363411
Bionano Genomics, Inc.	SAPHYR CHIP	KR	Registered	1363411
Bionano Genomics, Inc.	SAPHYR CHIP	US	Registered	5434447
Bionano Genomics, Inc.	SAPHYR CHIP	HK	Registered	304212666
Bionano Genomics, Inc.	SAPHYR CHIP	TW	Registered	1916578
Bionano Genomics, Inc.	SAPHYR CHIP	WO	Registered	1363411
Bionano Genomics, Inc.	SAPHYR	CN	Instructed	

**RECORDED: 03/22/2019**