

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3472314

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
COLUMBIA UNIVERSITY	07/31/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	National Science Foundation
<b>Street Address:</b>	4201 Wilson Blvd
<b>Internal Address:</b>	Room 1265
<b>City:</b>	Arlington
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	22230
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14670748
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)292-9041
<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>	
<b>Email:</b>	nsfpatents@nsf.gov
<b>Correspondent Name:</b>	NATIONAL SCIENCE FOUNDATION
<b>Address Line 1:</b>	4201 WILSON BLVD
<b>Address Line 2:</b>	ROOM 1265
<b>Address Line 4:</b>	ARLINGTON, VIRGINIA 22230
<b>NAME OF SUBMITTER:</b>	DANA THIBODEAU
<b>SIGNATURE:</b>	/DMT/
<b>DATE SIGNED:</b>	08/06/2015
<b>Total Attachments: 1</b> source=1553#page1.tif	

# License to the United States Government

Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison).

Invention Title: Massive Parallel Method for Decoding DNA and RNA

Inventor(s): Jingyue Ju

U.S. Filing/Issue Date: 03/27/2015

Patent or Application Serial No.: 14/670,748

Grant/Contract Number(s): BES0097793

Foreign Applications filed/intended in (countries): \_\_\_\_\_

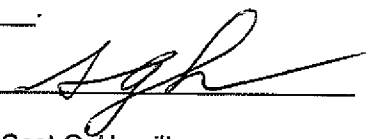
The invention identified above is a Subject Invention under **35 U.S.C. 200, et seq.**, and the Standard Patent Rights clause at **37 CFR 401.14, FAR 52.227-11** or **FAR 52.227-12** (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of:

1. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and
2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 31 day of July, 2015.

By \_\_\_\_\_  
(Institutional Business Official)

\_\_\_\_\_  
(Signature) 

Title \_\_\_\_\_

Scot G Hamilton  
Senior Director  
Columbia Technology Ventures

For COLUMBIA UNIV NEW YORK MORNINGSIDE  
(Grantee/Contractor Organization)

At 412 Low Library MC 4308 535 W 116th St New York, NY 10027  
(Business Address)