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PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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ALEXANDER K. SHALEK	03/28/2014
JELLERT GAUBLOMME	04/07/2014

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Property Type	Number
Application Number:	14837702
PCT Number:	US2014019127
Application Number:	61770036

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Total Attachments: 3

PATENT REEL: 037502 FRAME: 0236 source=48009-01-2095-Park-Shalek-Gaublomme#page1.tif source=48009-01-2095-Park-Shalek-Gaublomme#page2.tif source=48009-01-2095-Park-Shalek-Gaublomme#page3.tif

> PATENT REEL: 037502 FRAME: 0237

ASSIGNMENT

We, Hongkun Park; Alexander K. Shalek, and Jellert Gaublomme, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that I have sold and assigned, and do hereby assign, sell and transfer to President and Fellows of Harvard College, with offices at 17 Quincy Street, Cambridge, Massachusetts 02138, and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the international patent application entitled:

T CELL BALANCE GENE EXPRESSION, COMPOSITIONS OF MATTERS AND METHODS OF USE THEREOF

filed with the United States Patent and Trademark Office Receiving Office on February 27, 2014, and assigned International Application No. PCT/US2014/019127, which claims priority to, and/or the benefit of, U.S. Provisional Application No. 61/770,036, filed February 27, 2013, and including any national/regional phase applications, U.S. utility applications, renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications thereof; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

PATENT REEL: 037502 FRAME: 0238 First Inventor : Aviv Regev

Application No. : PCT/US2014/019127 : February 27, 2014

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We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to me and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 4/27/14	Hozz Ax
	Signature of: Hongkun Park
State of Mesashesetts	
County of Missesses	
personally appeared Hongkun Park, prove	, 2014, before me, the undersigned notary public, ed to me through satisfactory evidence of identification, to be the person whose name is signed on this document contents of this document are truthful and accurate to the
KATHERINE R. MARTIN Notary Public Commonwealthor Massachusetts My Commission Expires September 14, 2018	Notary Public My commission expires 1/4/18

Application No. : PCT/US2014/019127 Filed : February 27, 2014 Page 3 of 3	· · · · · · · · · · · · · · · · · · ·
Date: 3/18/19	Signature of: Alexander K. Shalek
State of Massachuserts	'
County of Mississes	
personally appeared Alexander K. Shalek, identification, which was a nersonally know	2014, before me, the undersigned notary public, proved to me through satisfactory evidence of, to be the person whose name is signed on me that the contents of this document are truthful and I belief.
KATHERINE R. MARTIN Notary Public COMMONWEAUTHOF MASSACHUSETTS My Commission Expires September 14, 2018	Notary Public My commission expires 9 14 18
Date: 4/7/2014	Signature of: Jellert Gaublomme
State of mossachusers	
County of Middlases	
personally appeared Jellert Gaubiomme, pr	to be the person whose name is signed on me that the contents of this document are truthful and
KATHERINE R. MARTIN NOTOTY Public COMMONWEAUTHOR MASSACHUSETTS My Commission Expires September 14, 2018	Notary Public My commission expires 1/4/18

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First Inventor : Aviv Regev