

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ASAF ROTEM	01/08/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DANA-FARBER CANCER INSTITUTE, INC.
<b>Street Address:</b>	450 BROOKLINE AVENUE
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02215
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16499908
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(240)359-4879
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<b>ATTORNEY DOCKET NUMBER:</b>	BROD-2024US
<b>NAME OF SUBMITTER:</b>	SUSAN FRATTURA
<b>SIGNATURE:</b>	/Susan Frattura/
<b>DATE SIGNED:</b>	11/20/2019
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

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WHEREAS, we, **BENJAMIN IZAR**, having a correspondence address of c/o 450 Brookline Avenue, Boston, Massachusetts 02215 and **ASAF ROTEM**, having a correspondence address of c/o 450 Brookline Avenue, Boston, Massachusetts 02215, have invented with others certain inventions and improvements disclosed in an International PCT Patent Application entitled **METHODS AND COMPOSITIONS FOR DETECTING AND MODULATING AN IMMUNOTHERAPY RESISTANCE GENE SIGNATURE IN CANCER,** filed in the United States Patent and Trademark Office as Receiving Office on March 30, 2018 and assigned PCT International Application No. PCT/US2018/025507; and

WHEREAS, **DANA-FARBER CANCER INSTITUTE, INC.**, having a principal place of business at 450 Brookline Avenue, Boston, Massachusetts 02215, is desirous of acquiring an interest in the same; and

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which we hereby acknowledge, we, **BENJAMIN IZAR and ASAF ROTEM**, *by these presents, do sell, assign, and transfer unto said Assignee, DANA-FARBER CANCER INSTITUTE, INC.*, our full, exclusive, and entire right, title, and interest in and to said applications, in and to any divisions, continuations, reexaminations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Letters Patent of the United States therefor; and we hereby request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from said applications, or from a division, continuation, reexamination, or reissue thereof, to **DANA-FARBER CANCER INSTITUTE, INC.**, for its interest and for the use and benefit of **DANA-FARBER CANCER INSTITUTE, INC.**, as assignee, and its assigns and legal representatives;

For the same consideration, we, by these presents, do sell, assign, and transfer to **DANA-FARBER CANCER INSTITUTE, INC.**, our full, exclusive, and entire right, title, and interest in and to any foreign application or applications corresponding to said applications, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **DANA-FARBER CANCER INSTITUTE, INC.**, or its designees insofar as permitted by applicable law;

AND, for the same consideration, we agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **DANA-FARBER CANCER INSTITUTE, INC.**, its successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

Assignment  
PCT Application No. PCT/US2018/025507  
Izar and Rotem

In testimony whereof, we hereunto set our hands and seals on the dates indicated below.

\_\_\_\_\_ Date  
BENJAMIN IZAR

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

Before me, a Notary Public in and for the aforementioned state, on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally appeared BENJAMIN IZAR, who, being duly sworn, signed and acknowledged the foregoing Assignment.

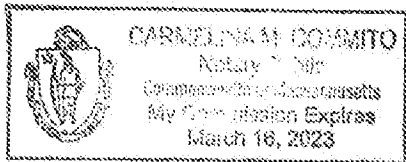
\_\_\_\_\_ Date  
NOTARY PUBLIC  
My Commission Expires: \_\_\_\_\_

\_\_\_\_\_ Date  
ASAF ROTEM

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

Before me, a Notary Public in and for the aforementioned state, on this 8<sup>th</sup> day of January, 2019, personally appeared ASAF ROTEM, who, being duly sworn, signed and acknowledged the foregoing Assignment.

\_\_\_\_\_ Date  
Carmelina M. Comito  
NOTARY PUBLIC  
My Commission Expires: \_\_\_\_\_



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