#### 504645104 11/16/2017

# PATENT ASSIGNMENT COVER SHEET

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## **CONVEYING PARTY DATA**

Name	Execution Date
FRED HUTCHINSON CANCER RESEARCH CENTER	11/15/2017

## **RECEIVING PARTY DATA**

Name:	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government
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## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15529943

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NAME OF SUBMITTER: DIRECTOR, DEITR, NIH SIGNATURE: /Director, DEITR, NIH/ **DATE SIGNED:** 11/16/2017

**Total Attachments: 1** 

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**PATENT REEL: 044476 FRAME: 0833** 504645104

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). Invention Title: Characterization Of Adaptive Immune Response To Vaccination Or Infection Using Immune Repertoire Sequencing Inventor(s): Ryan O Emerson, William Sumner Dewitt III, Harlan S Robins U.S. Filing/Issue Date: 05/25/2017 Patent or Application Serial No.: 15/529, 943 Grant/Contract Number(s): A1081860 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: 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 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 15th November day of Patrick Shelby, Ph.D. (Institutional Business Official) (Signature) Title Director, Technology Management For FRED HUTCHINSON CANCER RESEARCH CENTER (Grantee/Contractor Organization) At 1100 Fairview Avenue North J2-110 P.O. Box 19024 Seattle, WA 98109 (Business Address)

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**RECORDED: 11/16/2017**