PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |

CONVEYING PARTY DATA

| Name | Execution Date |
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| UNIVERSITY OF NORTH CAROLINA CHAPEL HILL | 12/21/2018 |

RECEIVING PARTY DATA

| Name: | National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government |
|-------------------|--|
| Street Address: | NIH Division of Extramural Inventions and Technology Resources (DEITR) |
| Internal Address: | 6705 Rockledge Drive, Suite 310, MSC 7980 |
| City: | Bethesda |
| State/Country: | MARYLAND |
| Postal Code: | 20892-7980 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------|---------|
| Patent Number: | 7892809 |

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Total Attachments: 1 source=7892809#page1.tif

PATENT 505440939 REEL: 048976 FRAME: 0517

License to the United States Government

| Invention Title: Chimeric Vectors | |
|---|---|
| Inventor(s): <u>Richard Samulski, Joseph Rabinowitz, Ma</u> <u>Dawn Bowles</u> | ivis McKenna, Chengwen Li, Josh Grieger, |
| U.S. Filing/issue Date: <u>February 22, 2011</u> | |
| Patent or Application Serial No.: 7,892,809 | |
| Grant/Contract Number(s): <u>HL066973</u> | |
| Foreign Applications filed/intended in (countries): | |
| The invention identified above is a Subject Invention Patent Rights clause at 37 CFR 401.14, FAR 52.227-13 included among the terms of the above identified gragovernment. This document is confirmatory of: | 1 or FAR 52.227-12 (if applicable) which are |
| on behalf of the United States the invention desc divisions, continuations, and continuations in par thereon throughout the world; and | paid-up license to practice or have practiced for or cribed in any patent application and in any and all rt, and in any and all patents and re-issues granted reason of the above identified grant/contract award to the award. |
| The Government is hereby granted an irrevocable poidentified patent application. | ower to inspect and make copies of the above- |
| Signed this 21st day of December 2018. | Jacquelin Luaz |
| By <u>Jacqueline Quay</u> (Institutional Business Official) | (Signature) |
| Title <u>Director of Licensing</u> | |
| For The University of North Carolina at Chapel Hill | |
| (Grantee/Contractor Organization) | |
| At: Office of Technology Commercialization 109 Church Street Chapel Hill, NC 27516 | |

PATENT REEL: 048976 FRAME: 0518

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