507724525 01/31/2023

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| EDGARDO RODRIGUEZ | 12/16/2014 |

RECEIVING PARTY DATA

| Name: | UNIVERSITY OF IOWA RESEARCH FOUNDATION | |
|-------------------|--|--|
| Street Address: | 112 N. CAPITOL STREET | |
| Internal Address: | 6 GILMORE HALL | |
| City: | IOWA CITY | |
| State/Country: | IOWA | |
| Postal Code: | 52242-5500 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16262905 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 114203-0222 | |
|-------------------------|--------------------|--|
| NAME OF SUBMITTER: | NEIL H. BENOWITZ | |
| SIGNATURE: | /Neil H. Benowitz/ | |
| DATE SIGNED: | 01/31/2023 | |

Total Attachments: 3

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PATENT 507724525 REEL: 062551 FRAME: 0221

ASSIGNMENT

I. Edgardo Rodriguez: residing at: o/o Univ. of Florida, Galnesville, FL 32610; being the inventor(s) of certain improvements in the international application entitled: COMPOSITIONS AND METHODS OF USE OF CRISPR-CAS SYSTEMS IN NUCLEOTIDE DISORDERS for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby assign unto UNIVERSITY OF IOWA RESEARCH FOUNDATION having a place of business at 112 N. Capitol Street, 6 Gilmore Hall, Iowa City, lowa 52242-5500, USA, its successors and assigns (1) the entire right, title and interest in all countries throughout the world in and to any and all of my inventions and discoveries in my United States Provisional Application Nos. 61/915,150 filed December 12, 2013, and 62/010,888 and 62/010,879 both filed June 11, 2014 and a PCT International Application filed under the Patent Cooperation Treaty in the PCT United States Receiving Office (ROIUS) on 12/12/2014, identified as International Application No.PCT/US2014/069897, and designating all PCT member countries/states, as well as in any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore; (2) the full and complete right to file patent applications in the name of UNIVERSITY OF IOWA RESEARCH FOUNDATION, or their 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 on the aforesaid inventions, discoveries and applications in any country of the world 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 and to 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 following application(s):

United States Provisional Application No. 61/915,150 filed December 12, 2013;

United States Provisional Application No. 62/010,888, filed June 11, 2014; and

United States Provisional Application No. 62/010,879, filed June 11, 2014, and all rights of priority in any country of the world deriving from the above-identified International Application.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to UNIVERSITY OF IOWA RESEARCH FOUNDATION as the assignee of the entire right, title and interest therein, as

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fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of UNIVERSITY OF IOWA RESEARCH FOUNDATION to execute and to deliver to UNIVERSITY OF IOWA RESEARCH FOUNDATION 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.

I further agree, at any time, upon request of UNIVERSITY OF IOWA RESEARCH FOUNDATION, to execute and to deliver to UNIVERSITY OF IOWA RESEARCH FOUNDATION, 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 what is necessary to give full effect to and to perfect any and all rights of UNIVERSITY OF IOWA RESEARCH FOUNDATION, 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.

In testimony of which I have hereupon affixed my signature it is my intention that this Assignment instrument be effective, and all rights transferred herein shall be considered to have vested in UNIVERSITY OF IOWA RESEARCH FOUNDATION as from the December 12, 2013, the filing date of the first filed United States Provisional Application No. 61/915,150, from which priority is hereby claimed.

Date

State of Iowa Florida

SS

SS

County Of Akchua)

I, <u>Michelle Willer</u>, a Notary Public in and for the county and Commonwealth aforesaid, lio hereby certify that <u>Edgardo Rodriguez</u> instrument, appeared before

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Patent 47627.99.2038/BI-2013/087V

My Commission Expires:

me this day in person and acknowledged that he signed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this ______ day of Dotembor , 2014.

MICHELLE BAILEY DANFORTH Notary Public - State of Fiorida My Comm. Expires Apr 6, 2017 Commission # EE 858490 Bonded Through Matienal Motary Ass

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PATENT REEL: 062551 FRAME: 0224

RECORDED: 01/31/2023