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PATENT ASSIGNMENT COVER SHEET

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

| Name | Execution Date |
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| UNIVERSITY OF CALIFORNIA SAN DIEGO | 01/16/2014 |

RECEIVING PARTY DATA

| iliname: | 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: | 8541231 |

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| Signature: | /Director, DEITR, NIH/ |
| Date: | 02/19/2014 |

Total Attachments: 1

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PATENT REEL: 032247 FRAME: 0184

License to the United States Government

RECORDED: 02/19/2014

| Sign and submit the executed document to the appropriate funding agency (e.g. upload in imposor). |
|---|
| Invention Title: ELIMINATION OF N-GLYCOLYLNEURAMINIC ACID FROM ANIMAL PRODUCTS FOR HUMAN USE |
| Inventor(s): Anna Maria Hedlund, Dzung Nguyen, Ajit Varki |
| U.S. Filing/lesue Date: 09/24/2013 |
| Patent or Application Serial No.: 8,541,231 |
| Grant/Contract Number(s): CA038701 |
| 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 State Government. This document is confirmatory of: |
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| The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application. |
| Signed this day of July 9, 20 4 |
| (Institutional Business Official) (Signature) |
| Title Associate Director, Technology Transfer Office |
| For UNIVERSITY OF CALIFORNIA SAN DIEGO (Grantee/Contractor Organization) |
| At Technology Transfer Office 9500 Gilman Drive #0910 La Jolla, CA 92093 US |

PATENT REEL: 032247 FRAME: 0185