505421732 04/10/2019

PATENT ASSIGNMENT COVER SHEET

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| WASHINGTON UNIVERSITY | 07/30/2018 |

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| 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 | |
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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12550220 |

CORRESPONDENCE DATA

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PATENT 505421732 REEL: 048853 FRAME: 0914

WU004063-DIV2/1 EIR: 9083901-03-0029

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). **Invention Title**: Detection of Cancer Cells In Vitro using Sigma-2 Receptor Ligands as Radiotracers invenior(s): Robert H. Mach, Douglas Rowland, Zhude Tu, Michael J. Welch U.S. Filing/Issue Date: 08/28/2009 Patent or Application Serial No.: 12/550,220 Grant/Contract Number(s): DA012647, CA086307, CA102869, DAMD17-01-1-0446 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 2. 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 day of Nichole R. Mercier (Institutional Business Official) Managing Director, Office of Technology Management For WASHINGTON UNIVERSITY (Grantee/Contractor Organization) At Washington University 660 South Euclid Ave. St. Louis, MO 63110

> PATENT REEL: 048853 FRAME: 0915

RECORDED: 04/10/2019

(Business Address)