

PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT |
| RESUBMIT DOCUMENT ID: | 506094771 |

CONVEYING PARTY DATA

| Name | Execution Date |
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| THE FOX CHASE CANCER CENTER FOUNDATION | 07/01/2012 |

RECEIVING PARTY DATA

| | |
|------------------------|-----------------------------------|
| Name: | THE INSTITUTE FOR CANCER RESEARCH |
| Street Address: | 333 COTTMAN AVENUE |
| City: | PHILADELPHIA |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 19111 |

PROPERTY NUMBERS Total: 57

| Property Type | Number |
|---------------------|----------|
| Application Number: | 10108877 |
| Application Number: | 10487878 |
| Application Number: | 10536955 |
| Application Number: | 11412367 |
| Application Number: | 10262237 |
| Application Number: | 11522238 |
| Application Number: | 13157477 |
| Application Number: | 12142435 |
| Application Number: | 11720873 |
| Application Number: | 09629222 |
| Application Number: | 10629951 |
| Application Number: | 11739558 |
| Application Number: | 12354864 |
| Application Number: | 12374209 |
| Application Number: | 12579529 |
| Application Number: | 12760673 |
| Application Number: | 12669397 |
| Application Number: | 12742769 |
| Application Number: | 09974323 |

PATENT

| Property Type | Number |
|----------------------|---------------|
| Application Number: | 12911195 |
| Application Number: | 12526759 |
| Application Number: | 14122286 |
| Application Number: | 15171663 |
| Application Number: | 09508803 |
| Application Number: | 09510322 |
| Application Number: | 09555554 |
| Application Number: | 09669459 |
| Application Number: | 09514768 |
| Application Number: | 12989529 |
| Application Number: | 09647140 |
| Application Number: | 11445850 |
| Application Number: | 12564255 |
| Application Number: | 12564283 |
| Application Number: | 13651797 |
| Application Number: | 14836927 |
| Application Number: | 12106498 |
| Application Number: | 11093692 |
| Application Number: | 12598437 |
| Application Number: | 12515522 |
| Application Number: | 13139441 |
| Application Number: | 13836414 |
| Application Number: | 14140597 |
| Application Number: | 14241671 |
| Application Number: | 10559058 |
| Application Number: | 13429755 |
| Application Number: | 09868196 |
| Application Number: | 11178258 |
| Application Number: | 11327917 |
| Application Number: | 12834338 |
| Application Number: | 10406830 |
| Application Number: | 11154103 |
| Application Number: | 11943367 |
| Application Number: | 13710146 |
| Application Number: | 14048540 |
| Application Number: | 14372798 |
| Application Number: | 11574378 |
| PCT Number: | US0802236 |

CORRESPONDENCE DATA**Fax Number:** (412)562-1041*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.***Phone:** 4125621622**Email:** vicki.cremonese@bipc.com**Correspondent Name:** DUANE A. STEWART III**Address Line 1:** 501 GRANT STREET**Address Line 2:** SUITE 200**Address Line 4:** PITTSBURGH, PENNSYLVANIA 15219

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| ATTORNEY DOCKET NUMBER: | 0099596-000001 |
| NAME OF SUBMITTER: | DUANE A. STEWART III |
| SIGNATURE: | /Duane A. Stewart III/ |
| DATE SIGNED: | 08/20/2020 |

Total Attachments: 9

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INTELLECTUAL PROPERTY ASSIGNMENT

This is an Intellectual Property Assignment having an effective date of July 1, 2012, between THE FOX CHASE CANCER CENTER FOUNDATION, a Pennsylvania nonprofit corporation located at 333 Cottman Avenue, Philadelphia, Pennsylvania, 19111 (formerly known as "The Fox Chase Cancer Center" and "The Fox Chase Center for Cancer and Medical Services, Inc.") ("Assignor"), and THE INSTITUTE FOR CANCER RESEARCH, a Delaware nonprofit corporation located at 333 Cottman Avenue, Philadelphia, Pennsylvania, 19111 (also known as "The Research Institute of the Fox Chase Cancer Center") ("Assignee").

WHEREAS, Assignor is the assignee of record of the patents and patent applications set forth in attached Schedule A (the "Intellectual Property"), including the rights of priority and rights to sue for present, past, and future damages;

WHEREAS, pursuant to an Assignment and Affiliation Agreement (the "Agreement") effective July 1, 2012, Assignor assigned to Assignee all of its assets, including the Intellectual Property, with the exception of certain Excluded Assets designated in the Agreement;

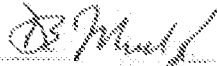
WHEREAS, Assignor and Assignee wish to memorialize and ensure the efficacy of the transfer of the Intellectual Property pursuant to the Agreement;

NOW, THEREFORE, for consideration previously provided and hereby acknowledged, and in accordance with, and subject to, the terms and conditions of the Assignment and Affiliation Agreement of July 1, 2012, Assignor hereby transfers to Assignee all right, title, and interest in and to the Intellectual Property, including the right of priority, and further including the right to sue for and recover for past damages.

IN WITNESS WHEREOF, the Assignor hereto has caused this Intellectual Property Assignment to be duly executed on the day and year first above written, and Assignee has accepted the assignment.

ASSIGNOR:

THE FOX CHASE CANCER CENTER
FOUNDATION

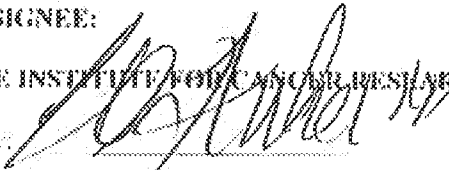
By: 

Name: Donald E. Moxel Jr.

Title: Chairman, AOU Foundation

ASSIGNEE:

THE INSTITUTE FOR CANCER RESEARCH

By: 

Name: Richard J. Fisher, MD.

Title: President + CEO

SCHEDULE A

| Title | Inventor(s) | Country | Application No./ Filing Date | Patent No./ Issue Date |
|---|--|---------|--|---------------------------|
| COMPOSITIONS AND METHODS FOR P53-MEDIATED REPRESSION OF GENE EXPRESSION | Maureen Murphy | US | 10/108,877 03-28-2002 2003/0083482 | 7,053,194 05-30-2008 |
| METHODS AND CELL CULTURES FOR PROMOTING ORGANOGENESIS AND TISSUE DEVELOPMENT | Kenneth S Zaret Kunio Matsumoto Hideyuki Yoshitomi | US | 10/487,878 06-20-2004 2005/0042750 | 8,802,432 07-23-2014 |
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| ISOBINDLORE COMPOUNDS, COMPOSITIONS CONTAINING THE SAME, AND METHODS OF USE THEREOF FOR THE TREATMENT OF VIRAL INFECTIONS RELATED TO THE ETIOLOGY OF CANCER | Vladimir Khazak Erica A. Golemis Sanjay K. Menon Lutz Weber | US | 11/412,387 04-27-2006 2006/0264473 | 7,705,921 04-27-2010 |
| METHODS FOR INHIBITING ANGIOGENESIS | Bruce A. Ruggeri Margie L. Clapper | US | 10/282,237 10-01-2002 2003/0100584 | 7,199,122 04-03-2007 |
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| LASER-ACCELERATED PROTON THERAPY UNITS AND SUPERCONDUCTING ELECTROMAGNET SYSTEMS FOR SAME | Chang Ming Ma Eugene S. Fourkal Jinsheng Li Wei Luo | US | 11/720,873 09-05-2008 2008-0050818 | 7,755,888 07-13-2010 |
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| Title | Inventor(s) | Country | Application No./ Filing Date | Patent No./ Issue Date |
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| COMBINATIONAL CHEMOTHERAPY TREATMENT | Yoshinro Matsumoto | US | 12/760,973 04-15-2010 2010-0289565 | 8,617,640 12-31-2013 |
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| YEAST INTERACTION TRAP ASSAY | Erica Golemis Ilya Sereshtskii Vladimir Khazzak | US | 09/508,803 03-16-2000 | 6,328,150 12-04-2001 |
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| Title | Inventor(s) | Country | Application No./ Filing Date | Patent No./ Issue Date |
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| METHOD OF MODULATING LASER-ACCELERATED PROTONS FOR RADIATION THERAPY | Chang-Ming Ma Eugene S. Fourkat | US | 11/445,850 08-01-2006 | 7,266,358 09-11-2007 |
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| COMPOSITIONS AND METHODS FOR ALTERING PANCREAS OR LIVER FUNCTION | Kenneth S. Zaret Yasuhide Kaehira | US | 12/598,437 11-02-2009 | 8,329,487 12-11-2012 |
| METHODS FOR ALLEVIATING DELETERIOUS EFFECTS OF 3-D-OXYGLUCOSONEHEPATITIS B VIRUS COMPOSITIONS AND METHODS OF USE | Truman R. Brown Francis Kappler | US | 12/911,168 10-28-2010 | 8,431,827 04-30-2013 |
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| ANTI-EGFR FAMILY ANTIBODIES, BISPECIFIC ANTI-EGFR FAMILY ANTIBODIES AND METHODS OF USE THEREOF | Gregory P. Adams Eva M. Horak Louis M. Weiner James D. Marks | US | 12/915,522 04-01-2010 | 8,580,283 11-12-2013 |
| COMBINATION THERAPY BASED ON SRC AND AURORA KINASE INHIBITION FOR THE TREATMENT OF CANCER | Vladimir Ratushny Erica A. Golemis Ilya G. Serebrinski Louis M. Weiner Igor Arsatunov Andrew Godwin | US | 2010-0196285 13/139,441 07-08-2011 | 8,101,831 08-11-2015 |
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| CARBON NANOTUBE BIOSENSORS AND RELATED METHODS | Alan T. Johnson Mitchell Lerner Matthew K. Robinson Tatiana Pazna Dustin Brisson Jennifer Dalley Brett R. Goldsmith | US | 14/241,671 07-09-2014 2015-0119293 | pending |
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| COMPOSITIONS CONTAINING PRE-S DOMAINS OF HEPATITIS B VIRUS | Ming Chai John M. Taylor | WO | PCT/AJ558/002238 02-20-2018 | N/A |
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| ANTI-MULLERIAN INHIBITING SUBSTANCE TYPE II RECEPTOR (MISIR) IMMUNOCONJUGATES TO DETECT AND TREAT CANCER | Gregory P. Adams Heldi H. Simmone (s) Qing-An Yuan Wayne Marasco Smita Mehta | US | 12/834,338 07-12-2010 2010-0278728 | 8,189,411 08-12-2012 |
| BISPECIFIC SINGLE CHAIN FV ANTIBODY MOLECULES AND METHODS OF USE THEREOF | Gregory P. Adams Eva M. Horsh Louis M. Weiner Janice D. Marks | US | 10/406,833 04-04-2003 2004-0071898 | 7,332,580 02-19-2008 |

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| BISPECIFIC SINGLE CHAIN FV ANTIBODY MOLECULES AND METHODS OF USE THEREOF | Gregory P. Adams Eva M. Horak Louis M. Weiner James D. Marks | US | 11/154,103 08-15-2005 2008-0099205 | 7,332,585 02-19-2008 |
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| BISPECIFIC SINGLE CHAIN FV ANTIBODY MOLECULES AND METHODS OF USE THEREOF | Gregory P. Adams Eva M. Horak Louis M. Weiner James D. Marks | US | 11/843,387 11-20-2007 2008-0010840 | 8,329,873 12-11-2012 |
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6141491

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| THE FOX CHASE CANCER CENTER FOUNDATION | 07/01/2012 |
| RECEIVING PARTY DATA | |
| Name: | THE AMERICAN ONCOLOGIC HOSPITAL |
| Street Address: | 333 COTTMAN AVENUE |
| City: | PHILADELPHIA |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 19111 |
| PROPERTY NUMBERS Total: 57 | |
| Property Type | Number |
| Application Number: | 10108877 |
| Application Number: | 10487878 |
| Application Number: | 10536955 |
| Application Number: | 11412367 |
| Application Number: | 10262237 |
| Application Number: | 11522238 |
| Application Number: | 13157477 |
| Application Number: | 12142435 |
| Application Number: | 11720873 |
| Application Number: | 09629222 |
| Application Number: | 10629951 |
| Application Number: | 11739558 |
| Application Number: | 12354864 |
| Application Number: | 12374209 |
| Application Number: | 12579529 |
| Application Number: | 12760673 |
| Application Number: | 12669397 |
| Application Number: | 12742769 |
| Application Number: | 09974323 |
| Application Number: | 12911195 |

PATENT

RECORDED: 06/08/2020

REEL: 053562 FRAME: 0949