

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4547578

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS	02/27/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	BIOVENTURES, LLC	
<b>Street Address:</b>	4301 W. MARKHAM STREET	
<b>City:</b>	LITTLE ROCK	
<b>State/Country:</b>	ARKANSAS	
<b>Postal Code:</b>	72205	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Patent Number:	9556245
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>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.</i>		
<b>Phone:</b>	651-207-8270	
<b>Email:</b>	mctpatent@gmail.com	
<b>Correspondent Name:</b>	HUGH MCTAVISH	
<b>Address Line 1:</b>	7460 PINEHURST ROAD	
<b>Address Line 4:</b>	PINE SPRINGS, MINNESOTA 55115	
<b>ATTORNEY DOCKET NUMBER:</b>	110.018US5	
<b>NAME OF SUBMITTER:</b>	HUGH MCTAVISH	
<b>SIGNATURE:</b>	/Hugh McTavish/	
<b>DATE SIGNED:</b>	08/11/2017	
<b>Total Attachments: 24</b>		
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## UNITED STATES PATENT ASSIGNMENT

1. WHEREAS, the Board of Trustees of the University of Arkansas, a University, with offices at 2404 North University Avenue, Little Rock, Arkansas 72207 ("Assignor"), is the owner of the entire right, title, and interest in and to certain letters patent and patent applications throughout the world and the inventions disclosed therein; and
2. WHEREAS, BIOVENTURES, LLC, an Arkansas limited liability company, with offices at 4301 W. Markham St., #831, Little Rock, Arkansas 72205-7199 ("Assignee"), is desirous of acquiring said right, title and interest of Assignor;
3. NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration by Assignee to Assignor in hand paid, receipt of all of which is hereby acknowledged, Assignor has agreed to and does hereby sell, assign and transfer unto Assignee, its successors and assigns, all of Assignor's right, title and interest in and throughout the world, in and to said letters patent and patent application and all reissues thereof and reexamination certificates therefore, and the inventions disclosed therein, including Assignor's full right to sue for and recover all damages recoverable from past infringements of said letters patent; including specifically, without limiting the generality of the foregoing, the worldwide letters patent and patent applications listed in Appendix A; and Assignor has further agreed to and does hereby sell, assign and transfer unto Assignee, its successors and assigns, all of Assignor's right, title and interest in and throughout the world in and to said inventions, any other patent applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said worldwide letters patent or patent applications or in whole or in part on said inventions, and any and all letter patent (including extensions thereof) of any country which have been or may be granted on any of the aforesaid patent applications or on said inventions or any part thereof; including, specifically, without limiting the generality of the foregoing, the worldwide letters patent and patent applications listed in Appendix A.
4. TO BE HELD AND ENJOYED BY Assignee, its successors and assigns, to the full ends of the respective terms for which said patents have been or may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor had this sale and assignment not been made.
5. AND Assignor hereby authorizes and requests the Patent Offices of the countries wherein said patent applications are filed to issue any and all letters patent which may be granted upon said foreign country patent applications to Assignee, its successors and assigns.
6. AND Assignor hereby agrees to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue or other applications for patents of any country, that may be deemed necessary by said Assignee, its successors or

assigns fully to secure its interest as aforesaid in and to said inventions or any part thereof, and in and to said several patents or any of them.

7. AND Assignor covenants that Assignor has granted no right or license to make, use or sell said inventions to anyone except said Assignee, that prior to the execution of this deed, Assignor's right, title, and interest in said inventions has not been otherwise encumbered, and that Assignor has not executed and will not execute any instrument in conflict herewith.

ASSIGNOR (BOARD OF TRUSTEES OF THE  
UNIVERSITY OF ARKANSAS)

Daniel W Bahn

By:

Title:

Date: 2/22/17

ACKNOWLEDGMENT

STATE OF Arkansas )

) SS.

COUNTY OF Pulaski )

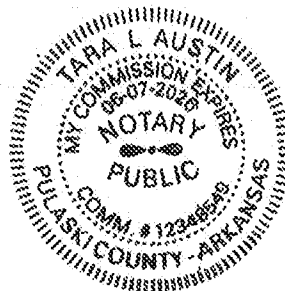
On this 22 day of February, 2017, before me, a Notary Public,  
personally appeared Daniel Bahn  
to me to be the person described, in and who executed, the foregoing  
assignment and acknowledged that he/she executed said instrument as his/her  
free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my official  
seal the day and year first above written.

[Signature]  
Notary Public

My Commission Expires:

6-7-26 [SEAL]



ASSIGNEE (BIOVENTURES, LLC)

Nancy M. Gray  
By: Nancy M. Gray  
Title: President

Date: 2/22/17

ACKNOWLEDGMENT

STATE OF Arkansas

) SS.

COUNTY OF Pulaski

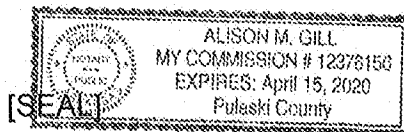
On this 22 day of February, 2017, before me, a Notary Public,  
personally appeared Nancy M. Gray  
to me to be the person described, in and who executed, the foregoing  
assignment and acknowledged that he/she executed said instrument as his/her  
free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my official  
seal the day and year first above written.

Alison M. Gill  
Notary Public

My Commission Expires:

4/15/2020



PATENT

REEL: 043533 FRAME: 0467

## APPENDIX A

Docket 110.001US1, U.S. Utility Patent

Patent No. 7,465,537

Issued December 16, 2008

Serial No. 11/119,587

COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRUS REPLICATION

Inventors: Raney, Kevin D. et al.

Filed: May 1, 2005

UAMS reference I04-09

Docket Number 110.001US2, U.S. Utility Patent Application

Serial No.12/291,473

Title: COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRUS REPLICATION

Inventors: Raney, Kevin D. et al.

Filed: November 10, 2008

UAMS reference I04-09

Docket: 110.002US1

U.S. utility patent no 7,211,427

Issued May 1, 2007

Applicant: Jeanne Y. Wei and Xiaomin Zhang

Filed: September 13, 2005

Serial No.: 11/225,270

Title: P49/STRAP IS A NOVEL PROTEIN INVOLVED IN GENE REGULATION AND CELL PROLIFERATION

UAMS reference I04-20

Docket: 110.002US2, U.S. utility patent

Patent No. 7,498,411

Issued March 3, 2009

Applicant: Jeanne Y. Wei and Xiaomin Zhang

Filed: March 22, 2007

Serial No.: 11/726,699

Title: P49/STRAP IS A NOVEL PROTEIN INVOLVED IN GENE REGULATION AND CELL PROLIFERATION

UAMS reference I04-20

Docket: 110.002US3, U.S. utility patent application

Applicant: Jeanne Y. Wei and Xiaomin Zhang

Filed: September 11, 2008

Serial No.: 12/283,347

Title: P49/STRAP IS A NOVEL PROTEIN INVOLVED IN GENE REGULATION AND CELL PROLIFERATION

UAMS reference I04-20

Docket Number: 110.003US1, U.S. Utility Patent Application  
Title: Therapy with Clostridium Perfringens Enterotoxin to Treat Ovarian and Uterine Cancer  
Inventor: Alessandro D. Santin  
Filed: October 12, 2005  
Serial No.: 11/248,702  
UAMS Disclosure I04-13

Docket 110.003US2, U.S. Utility Patent Application.  
Title: Therapy with Clostridium Perfringens Enterotoxin to Treat Ovarian and Uterine Cancer  
Inventor: Alessandro D. Santin  
Filed: June 24, 2009  
Serial No.: 12/456,907

Docket: 110.004CA1, Canadian Patent Application  
IMMUNOTHERAPY OF EPITHELIAL TUMORS USING INTRALESIONAL  
INJECTION OF ANTIGENS THAT INDUCE A DELAYED TYPE  
HYPERSENSITIVITY REACTION  
Canadian Patent Application No. 2,276,219  
Inventors: Thomas Dag Horn et al.  
Applicant: Board of Trustees of the University of Arkansas

Docket: 110.004US1, U.S. Utility Patent  
IMMUNOTHERAPY OF EPITHELIAL TUMORS USING INTRALESIONAL  
INJECTION OF ANTIGENS THAT INDUCE A DELAYED TYPE  
HYPERSENSITIVITY REACTION  
Applicant: Thomas Dag Horn et al.  
Serial No. 09/344,357  
U.S. Patent No. 6,350,451  
Issued February 26, 2002

Docket Number 110.004US3 U.S. Utility Patent Application  
Title: IMMUNOTHERAPY OF EPITHELIAL TUMORS USING INTRALESIONAL  
INJECTION OF ANTIGENS THAT INDUCE A DELAYED TYPE HYPERSENSITIVITY  
REACTION  
Inventors: Thomas Dag Horn and Sandra Marchese Johnson  
Filed February 21, 2005.  
Serial No. 11/061,996.

Docket 110.004US4, U.S. utility patent application.  
Inventors: Thomas Dag Horn and Sandra Marchese Johnson  
Serial No.: 12/077,508  
Filed: March 19, 2008

Title: IMMUNOTHERAPY OF EPITHELIAL TUMORS USING INTRALESIONAL  
INJECTION OF ANTIGENS THAT INDUCE A DELAYED TYPE HYPERSENSITIVITY  
REACTION

Docket 110.006US1, U.S. Utility patent application

Title: EFFICIENT GENE SUPPRESSION USING A TRANSFER RNA PROMOTER IN  
HERPES VIRUS VECTORS TO DELIVER SMALL INTERFERENCE RNAS

Inventor: Yuzhi Chen

Serial No. 11/327,232

Filed: January 7, 2006

UAMS Disclosure I05-07

Docket: 110.010AU1

Australian Patent Application No. 2006279441

Inventor: Cherng-ju Kim

Based on International Application No. PCT/US2006/032147

Filed: August 17, 2006

Title: DRUG-SURFACTANT COMPLEXES FOR SUSTAINED RELEASE

UAMS Disclosure: I05-32

Docket: 110.010CA1

Canadian Patent Application No. 2,618,076

Inventor: Cherng-ju Kim

Based on International Application No. PCT/US2006/032147

Filed: August 17, 2006

Title: DRUG-SURFACTANT COMPLEXES FOR SUSTAINED RELEASE

UAMS Disclosure: I05-32

Docket: 110.010EP1

European Patent Application No. 06801741.7

Inventor: Cherng-ju Kim

Based on International Application No. PCT/US2006/032147

Filed: August 17, 2006

Title: DRUG-SURFACTANT COMPLEXES FOR SUSTAINED RELEASE

UAMS Disclosure: I05-32

Docket: 110.010KR1

Korean Patent Application No. 10-2008-7006425

Inventor: Cherng-ju Kim

Based on International Application No. PCT/US2006/032147

Filed: August 17, 2006

Title: DRUG-SURFACTANT COMPLEXES FOR SUSTAINED RELEASE

UAMS Disclosure: I05-32

Docket: 110.010US1

Applicant: Cherng-ju Kim



Filed: August 17, 2005  
Serial No: 11/207,126  
Title: DRUG-SURFACTANT COMPLEXES FOR SUSTAINED RELEASE  
UAMS Disclosure: I05-32

Docket: 110.010US2, U.S. utility patent application  
Applicant: Cherng-ju Kim  
Filed: October 22, 2009  
Serial No: 12/589,327  
Title: DRUG-SURFACTANT COMPLEXES FOR SUSTAINED RELEASE  
UAMS Disclosure: I05-32

Our ref.: 110.010TW1, Taiwan patent application.  
Inventor: Cherng-ju Kim  
Applicant: Board of Trustees of the University of Arkansas  
Based on International Application No. PCT/US2006/032147  
Filed: August 17, 2006  
Title: DRUG-SURFACTANT COMPLEXES FOR SUSTAINED RELEASE

Docket 110.017US1, U.S. utility patent application  
Title: METHODS OF IDENTIFYING GLUCOCORTICOIDs WITHOUT THE  
DETRIMENTAL SIDE EFFECTS OF BONE LOSS  
Inventors: Bellido, Teresita et al.  
Filed: September 27, 2005  
Serial No.: 11/236,042

Docket 110.018CA1  
Canadian patent application no. 2,443,617  
based on International Patent Application No. PCT/US02/11734  
Applicant: The Board of Trustees of the University of Arkansas  
Inventors: Timothy J. O'Brien et al.  
International Filing Date: 17 April 2001  
Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC  
AND THERAPEUTIC INTERVENTIONS

Docket 110.018EP1  
European patent no. EP 1414477  
European patent application no. EP 02723852.6  
based on International Patent Application No. PCT/US02/11734  
Applicant: The Board of Trustees of the University of Arkansas  
Inventors: Timothy J. O'Brien et al.  
International Filing Date: 17 April 2001  
Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC  
AND THERAPEUTIC INTERVENTIONS

Docket 110.018EP2

European patent no. EP2340845

European Patent Application No. 10012943.6

Applicant: The Board of Trustees of the University of Arkansas

Inventors: Timothy J. O'Brien et al.

International Filing Date: 17 April 2001

Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS

Divisional of European patent application no. EP 02723852.6

Docket 110.018JP1

Japanese Patent Application No. 2002-582205

Corresponding to PCT Application No. PCT/US02/11734

Inventors: Timothy J. O'Brien et al.

Applicant: The Board of Trustees of the University of Arkansas

Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS

Docket 110.018MX1

Mexican Patent No. 292867.

Issued December 1, 2011

Mexican Patent Application No. PA/a/2003/009510

National Stage of PCT Application No. PCT/US02/11734

Inventors: Timothy J. O'Brien et al.

Applicant: The Board of Trustees of the University of Arkansas

Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS

Docket 110.018MX3

Mexican patent no. 292867

Mexican Patent Application No. PA/a/2005/005237

National Stage of PCT Application No. PCT/US03/37041, filed Nov. 17, 2003

Inventors: Timothy J. O'Brien et al.

Applicant: The Board of Trustees of the University of Arkansas

Title: CA125 GENE AND ITS USE FOR DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS

Priority claimed from US 60/427,045, filed Nov. 15, 2002.

PCT/US03/37041

Docket 110.018MX4

Mexican Patent Application No. MX/a/2010/011665

Inventors: Timothy J. O'Brien et al.

Applicant: The Board of Trustees of the University of Arkansas

Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS

Docket 110.018MX5  
Mexican Patent No. 313010  
Issue 05 September 2013  
Mexican Patent Application No. MX/a/2010/013271  
International Filing Date April 12, 2002  
Inventors: Timothy J. O'Brien et al.  
Applicant: The Board of Trustees of the University of Arkansas  
Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC  
AND THERAPEUTIC INTERVENTIONS

Docket:110.018US1  
Inventors: Timothy J. O'Brien et al.  
Serial No: 09/956,738  
Filed: September 27, 2001  
Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC  
AND THERAPEUTIC INTERVENTIONS  
U.S. Patent No. 7,309,760

Docket 110.018US2,  
U.S. Patent No. 8,124,728  
Issued February 28, 2012  
Inventors: Timothy J. O'Brien et al.  
Serial No.: 10/475,117  
Filed: March 1, 2004  
Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC  
AND THERAPEUTIC INTERVENTIONS

Docket 110.018US3  
Inventors: Timothy J. O'Brien et al.  
Serial No.: 10/715,066  
Filed: November 17, 2003  
Title: CA125 GENE AND ITS USE FOR DIAGNOSTIC AND THERAPEUTIC  
INTERVENTIONS

Docket 110.018US4, U.S. utility patent application.  
Inventors: Timothy J. O'Brien et al.  
Serial No.: 11/975,668  
Filed: October 19, 2007  
Title: REPEAT SEQUENCES OF THE CA125 GENE AND THEIR USE FOR DIAGNOSTIC  
AND THERAPEUTIC INTERVENTIONS

Docket 110.018US5  
Inventors: Timothy J. O'Brien et al.  
Serial No.: 12/455,366  
Filed: June 1, 2009

Title: CA125 GENE AND ITS USE FOR DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS

Docket 110.019US1, U.S. Utility Patent

U.S. Patent No. 8,021,672

Title: DEVELOPMENT OF A CHLAMYDIA SP. VACCINE STRAIN

Inventor: Catherine M. O'Connell

Filed: February 20, 2007

Serial No.: 11/708,620

UAMS Disclosure I06-11

Docket 110.020WO1, International PCT Patent Application

International application no. PCT/US08/004589

Title: FUSION PROTEIN OF COLLAGEN-BINDING DOMAIN AND PARATHYROID HORMONE

Inventors: Osamu Matsushita, Robert C. Gensure, and Joshua Sakon

Filed: April 9, 2008

Disclosure UAF 06-31

Docket 110.021US1, U.S. Patent

U.S. Patent No. 8,097,242

Issue date: January 17, 2012

Serial Number 11/973,132

Title: TARGET PEPTIDES FOR OVARIAN CANCER IMMUNOTHERAPY

Inventor: Alessandro D. Santin

Filed: October 5, 2007

Docket 110.021WO1, International PCT Patent Application

International Application No. PCT/US2007/021560

Title: TARGET PEPTIDES FOR OVARIAN CANCER IMMUNOTHERAPY

Inventor: Alessandro D. Santin

Filed: October 5, 2007

Docket No. 110.022CA1,

Canadian patent application no. 2,670,107

based on

International Application No. PCT/US07/024300

Title: Multi-Epitope Peptide-Loaded Dendritic Cell Immunotherapy for Cancer

Inventors: Martin J. Cannon, Kristina L. Bondurant, Timothy J. O'Brien

International Filing date: November 21, 2007

Docket No. 110.022EP1, European patent application no 07862173.7

based on International Application No. PCT/US07/024300

Title: Multi-Epitope Peptide-Loaded Dendritic Cell Immunotherapy for Cancer

Inventors: Martin J. Cannon, Kristina L. Bondurant, Timothy J. O'Brien

International Filing date: November 21, 2007

Docket No. 110.022EP2,  
European patent application No. 12155731.8  
Divisional of  
European patent application No. 07862173.7  
Title: Multi-Epitope Peptide-Loaded Dendritic Cell Immunotherapy for Cancer  
Inventors: Martin J. Cannon, Kristina L. Bondurant, Timothy J. O'Brien  
International Filing date: November 21, 2007  
Priority date: November 22, 2006

Docket 110.022US1, U.S Patent Application  
Title: MULTI-EPITOPE PEPTIDE-LOADED DENDRITIC CELL IMMUNOTHERAPY FOR  
CANCER  
Inventors: Martin J. Cannon, Kristina L. Bondurant, Timothy J. O'Brien  
Filed: November 21, 2007  
Serial No. 11/986,352

Docket 110.022US2, U.S Patent Application  
Title: MULTI-EPITOPE PEPTIDE-LOADED DENDRITIC CELL IMMUNOTHERAPY FOR  
CANCER  
Inventors: Martin J. Cannon, Kristina L. Bondurant, Timothy J. O'Brien  
Filed: October 27, 2010  
Serial No. 12/913,174  
UAMS I07-09

Docket Number 110.022WO1, International Patent Application  
Title: MULTI-EPITOPE PEPTIDE-LOADED DENDRITIC CELL IMMUNOTHERAPY FOR  
CANCER  
Inventors: Martin J. Cannon, Kristina L. Bondurant, Timothy J. O'Brien  
International Application No. PCT/US07/024300  
Filed: November 21, 2007  
UAMS Disclosure I07-09

Docket 110.024US1, U.S. Utility Patent Application  
Title: OVEREXPRESSION OF MAMMAGLOBIN B IN OVARIAN AND ENDOMETRIAL  
TUMORS – A NEW DIAGNOSTIC AND THERAPEUTIC MARKER  
Inventor: Alessandro D. Santin  
Filed: February 21, 2006  
Serial No. 11/709,014  
UAMS Disclosure I07-23

Docket 110.025US1  
U.S. Utility Patent No. 9,289,403  
Issued March 22, 2016  
Title: USE OF MODAFINIL TO TREAT SPASTICITY

Inventor: Edgar Garcia-Rill  
Filed: March 9, 2007  
Serial No.: 11/716,218  
UAMS Disclosure I07-25

Docket 110.025WO1,  
International Patent Application No. PCT/US2008/002964  
Title: USE OF MODAFINIL TO TREAT SPASTICITY  
Inventor: Edgar Garcia-Rill  
Filed: March 5, 2008

Docket 110.026DE1, German national stage application, based on  
International Application No. PCT/US2008/004392  
Title: NON-SPECIFIC DELAYED-TYPE HYPERSENSITIVITY RESPONSE TO TREAT  
HERPES SIMPLEX VIRUS INFECTION  
Inventors: Hugh McTavish, Thomas Dag Horn, and Sandra Marchese Johnson  
Filed: April 4, 2008. Priority Date April 4, 2007  
Applicants: Hugh McTavish, and the Board of Trustees of the University of Arkansas

Docket 110.026KR1, Korean national stage application, based on  
International Application No. PCT/US2008/004392  
Title: NON-SPECIFIC DELAYED-TYPE HYPERSENSITIVITY RESPONSE TO TREAT  
HERPES SIMPLEX VIRUS INFECTION  
Inventors: Hugh McTavish, Thomas Dag Horn, and Sandra Marchese Johnson  
Filed: April 4, 2008. Priority Date April 4, 2007  
Applicants: Hugh McTavish, and the Board of Trustees of the University of Arkansas

Docket 110.026US1, U.S. Utility Patent Application  
Title: NON-SPECIFIC DELAYED-TYPE HYPERSENSITIVITY RESPONSE TO TREAT  
HERPES SIMPLEX VIRUS INFECTION  
Inventors: Hugh McTavish, Thomas Dag Horn, and Sandra Marchese Johnson  
Filed: October 1, 2009  
Serial No. 12/450,586  
UAMS Disclosure I07-29

Docket 110.026US2,  
U.S. Patent No. 9,205,065  
Title: NON-SPECIFIC DELAYED-TYPE HYPERSENSITIVITY RESPONSE TO TREAT  
HERPES SIMPLEX VIRUS INFECTION  
Inventors: Hugh McTavish, Thomas Dag Horn, and Sandra Marchese Johnson  
Filed: April 19, 2015  
Serial No. 14/690,459  
UAMS Disclosure I07-29

Docket 110.026US3, U.S. Patent No. Application

Title: NON-SPECIFIC DELAYED-TYPE HYPERSENSITIVITY RESPONSE TO TREAT  
HERPES SIMPLEX VIRUS INFECTION

Inventors: Hugh McTavish, Thomas Dag Horn, and Sandra Marchese Johnson

Filed: December 6, 2015

Serial No. 14/960,402

UAMS Disclosure I07-29

Docket No. 110.026WO1. International Patent Application

Title: NON-SPECIFIC DELAYED-TYPE HYPERSENSITIVITY RESPONSE TO TREAT  
HERPES SIMPLEX VIRUS INFECTION

Inventors: Hugh McTavish, Thomas Dag Horn, and Sandra Marchese Johnson

Filed: April 4, 2008

International Application No. PCT/US2008/004392

Docket 110.027US1, U.S. Utility Patent

Title: METHODS AND KITS FOR ASSAYING ACETYL TRANSFERASE OR  
DEACETYLASE ACTIVITY

Inventors: Alan J. Tackett et al.

Filed: June 12, 2007

Serial No. 11/811,886

U.S. Patent No. 7,670,795

Issued March 2, 2010

UAMS Disclosure I07-35

Docket 110.027US2, U.S. Utility Patent Application

Title: METHODS AND KITS FOR ASSAYING ACETYL TRANSFERASE OR  
DEACETYLASE ACTIVITY

Inventors: Alan J. Tackett et al.

Filed: October 12, 2009

Serial No.: 12/587,776

UAMS Disclosure I07-35

Docket 110.029CA1, Canadian patent application

based on International Patent Application No. PCT/US08/011213

Title: INHIBITION OF DENDRITIC CELL-DRIVEN REGULATORY T CELL ACTIVATION  
AND POTENTIATION OF TUMOR ANTIGEN-SPECIFIC T CELL RESPONSES BY  
INTERLEUKIN-15

Inventors: Martin J. Cannon, Kellie Kozak, and Timothy J. O'Brien

Filed: September 27, 2008

UAMS Disclosure I08-03

Docket 110.029EP1,

European patent application no. 08834390.0

based on International Patent Application No. PCT/US08/011213

Title: INHIBITION OF DENDRITIC CELL-DRIVEN REGULATORY T CELL ACTIVATION AND POTENTIATION OF TUMOR ANTIGEN-SPECIFIC T CELL RESPONSES BY INTERLEUKIN-15 AND MAP KINASE INHIBITOR

Inventors: Martin J. Cannon, Kellie Kozak, and Timothy J. O'Brien

Filed: September 27, 2008

UAMS Disclosure I08-03

Docket 110.029US1, U.S. Utility Patent Application

Title: INHIBITION OF DENDRITIC CELL-DRIVEN REGULATORY T CELL ACTIVATION AND POTENTIATION OF TUMOR ANTIGEN-SPECIFIC T CELL RESPONSES BY INTERLEUKIN-15

Inventors: Martin J. Cannon, Kellie Kozak, and Timothy J. O'Brien

Serial No.: 12/286,122

Filed: September 27, 2008

UAMS Disclosure I08-03

Docket 110.029US2, U.S. Utility Patent Application

Title: INHIBITION OF DENDRITIC CELL-DRIVEN REGULATORY T CELL ACTIVATION AND POTENTIATION OF TUMOR ANTIGEN-SPECIFIC T CELL RESPONSES BY INTERLEUKIN-15

Inventors: Martin J. Cannon, Kellie Kozak Vaidya, and Timothy J. O'Brien

Filed: September 30, 2013

Serial No. 14/040,850

UAMS Disclosure I08-03

Docket 110.029WO1, International Patent Application

Title: INHIBITION OF DENDRITIC CELL-DRIVEN REGULATORY T CELL ACTIVATION AND POTENTIATION OF TUMOR ANTIGEN-SPECIFIC T CELL RESPONSES BY INTERLEUKIN-15

Inventors: Martin J. Cannon, Kellie Kozak, and Timothy J. O'Brien

Filed: September 27, 2008

UAMS Disclosure I08-03

Docket 110.030US1, U.S. Utility Patent Application

Title: CB2 RECEPTOR MODULATORS IN NEURODEGENERATIVE DISEASES AND APPLICATIONS OF THE SAME

Inventors: Paul L. Prather and John P. Crow

Serial No. 11/867,689

Filed: October 5, 2007

Docket 110.030US2, U.S. Utility Patent Application

Title: CB2 RECEPTOR MODULATORS IN NEURODEGENERATIVE DISEASES AND APPLICATIONS OF THE SAME

Inventors: Paul L. Prather and John P. Crow

Serial No. 13/853,913



Filed: March 29, 2013

Docket 110.031US1, U.S. Utility Patent Application

Title: INHIBITION OF CANCER METASTASIS

Inventors: Behjatolah M. Karbassi et al.

Filed: March 30, 2007

Serial No. 11/694,370

Docket 110.031US2, U.S. Utility Patent Application

Title: INHIBITION OF CANCER METASTASIS

Inventors: Bejatolah M. Karbassi and Thomas Kieber-Emmons

Filed: October 4, 2008

UAMS Disclosure 2009-06

Docket 110.031US3, U.S. Utility Patent Application

Title: INHIBITION OF CANCER METASTASIS

Inventors: Behjatolah M. Karbassi et al.

Filed: April 5, 2012

Serial No. 13/440,137

UAMS Disclosure 2009-06

Docket 110.033US1, U.S. Utility Patent Application

Title: PREPARATION METHOD OF BIODEGRADABLE MICRO-PARTICLES  
CONTAINING DRUGS

Inventor: Cherng-ju Kim

Filed: July 31, 2008

Docket: 110.033WO1, International patent application

Inventor: Cherng-ju Kim

Filed: July 23, 2009

International Application No. PCT/US09/004273

Title: PREPARATION METHOD FOR BIODEGRADABLE MICRO-PARTICLES  
CONTAINING DRUGS

Docket: 110.034USA

Patentability Opinion on UAMS Disclosure 2009-11

Inventors: Cristian Gragniello and Ossama Al-Mefty.

Title: THE UTILIZATION OF FLUORESCINE FOR IDENTIFICATION AND  
PRESERVATION OF THE FACIAL NERVE AND SEMICIRCLULAR CANALS FOR SAFE  
MASTOIDECTOMY

Docket 110.034PRV, U.S. Provisional Patent Application

Title: UTILIZATION OF FLUORESCENT DYE FOR IDENTIFICATION AND  
PRESERVATION OF THE FACIAL NERVE AND SEMICIRCULAR CANALS FOR SAFE  
MASTOIDECTOMY

Inventors: Cristian Gragnaniello and Ossama Al-Mefty  
Filed: March 24, 2009  
Serial No. 61/210,905  
UAMS Disclosure 2009-11

Docket 110.035PRV, U.S. Provisional Patent Application  
Title: TUMOR SIMULATION FOR SURGERY TRAINING  
Inventor: Cristian Gragnaniello  
Filed: April 16, 2009  
Serial No.: 61/212,874  
UAMS Disclosure 2009-20

Docket 110.035PRV2, U.S. Provisional Patent Application  
Title: TUMOR SIMULATION FOR SURGERY TRAINING  
Inventor: Cristian Gragnaniello  
Filed: May 4, 2009  
Serial No.: Unassigned  
UAMS Disclosure 2009-20

Docket 110.036PRV, U.S. Provisional Patent Application  
Title: NEW METHYLPHENIDATE FORMULATIONS  
Inventor: Cherng-ju Kim  
Filed: July 13, 2009  
Serial No.: 61/270,752  
UAMS Disclosure 2009-22

Docket 110.037PRV, U.S. Provisional Patent Application  
Title: ALPHA-MELANOCYTE STIMULATING HORMONE ( $\alpha$ -MSH) AS TOPICAL  
ANTI-INFLAMMATORY AGENT FOR THE TREATMENT OF ALLERGIC CONTACT  
DERMATITIS  
Inventors: Cheryl Armstrong and John Ansel  
Filed: November 9, 2009  
Serial No.: 61/280,820  
UAMS Disclosure 2009-28

Docket 110.037US1, U.S. Utility Patent Application  
Title: ALPHA-MELANOCYTE STIMULATING HORMONE AS TOPICAL ANTI-  
INFLAMMATORY AGENT FOR THE TREATMENT OF ALLERGIC CONTACT  
DERMATITIS AND ECZEMA  
Inventors: Mandip Singh Sachdeva, Cheryl Armstrong, and John Ansel.  
Filed: November 9, 2010  
Serial No.: 12/942,369  
UAMS Disclosure 2009-28

Docket 110.038PRV, U.S. Provisional Patent Application

Title: HUMAN PAPILLOMA VIRUS PEPTIDE-SPECIFIC T-CELL RESPONSE FOR  
TREATMENT OF WARTS

Inventors: Mayumi Nakagawa, Kevin Kim, and Thomas Horn

Filed: April 9, 2010

Serial No.: 61/342,174

UAMS Disclosure 2010-09

Docket 110.038US1, U.S. Utility Patent Application

Title: HUMAN PAPILLOMA VIRUS PEPTIDE-SPECIFIC T-CELL RESPONSE FOR  
TREATMENT OF WARTS

Inventors: Mayumi Nakagawa, Kevin Kim, and Thomas Horn

Filed: April 7, 2011

Serial No.: 13/066,128

UAMS Disclosure 2010-09

Docket 110.038US2, U.S. Utility Patent Application

Title: HUMAN PAPILLOMA VIRUS PEPTIDE-SPECIFIC T-CELL RESPONSE FOR  
TREATMENT OF WARTS

Inventors: Mayumi Nakagawa, Kevin Kim, and Thomas Horn

Filed: August 11, 2011

Serial No.: 13/136,801

UAMS Disclosure 2010-09

Docket: 110.039USA

Patentability Opinion on UAMS Disclosure 2011-12

Inventor: Cherng-ju Kim

Title: BIODEGRADABLE MICROSPHERES MANUFACTURING PROCESS

Docket 110.039PRV, U.S. Provisional Patent Application

Title: SEMI-CONTINUOUS PROCESS OF PREPARING MICROSPHERES CONTAINING  
DRUGS

Inventor: Cherng-ju Kim

Filed: April 9, 2009

Serial No.: 61/492,410

UAMS Disclosure 2011-12

Docket 110.040US1,

U.S. Utility Patent No. 8,367,366

Issued February 5, 2013

Title: METHODS AND KITS FOR QUANTITATIVE METHYLTRANSFERASE AND  
DEMETHYLASE MEASUREMENTS

Inventors: Alan J. Tackett, Lauren P. Blair, and Nathan L. Avaritt

Filed: December 4, 2010

Serial No. 12/960,486

UAMS Disclosure 2011-07

Docket 110.041PRV, U.S. Provisional Patent Application

Title: NEW MARKERS PROVIDE POTENTIAL FOR EARLY DIAGNOSIS AND OPTIONS  
OFR OVARIAN CANCER PATIENT THERAPY AFTER OR DURING CHEMOTHERAPY

Inventors: Timothy O'Brien, John Beard, and Wilbur C. Hitt

Filed: June 17, 2011

Serial No. Unassigned

Docket 110.041PRV2, U.S. Provisional Patent Application

Title: NEW MARKERS FOR EARLY DIAGNOSIS OF OVARIAN CANCER, MONITORING  
DURING THERAPY, AND NEW THERAPY OPTIONS DURING AND AFTER  
CHEMOTHERAPY

Inventors: Timothy O'Brien, John Beard, and Wilbur C. Hitt

Filed: September 12, 2011

Serial No.: 61/573,759

UAMS Disclosure 2010-09

Docket 110.041WO1, PCT Patent Application

Title: NEW MARKERS FOR EARLY DIAGNOSIS OF OVARIAN CANCER, MONITORING  
DURING THERAPY, AND NEW THERAPY OPTIONS DURING AND AFTER  
CHEMOTHERAPY

Inventors: Timothy O'Brien, John Beard, and Wilbur C. Hitt

Filed: June 18, 2012

International Application No.: PCT/US12/43027

UAMS Disclosure 2011-32

Docket 110.041EP1,

European Patent Application No. 12800956.0

Title: NEW MARKERS FOR EARLY DIAGNOSIS OF OVARIAN CANCER, MONITORING  
DURING THERAPY, AND NEW THERAPY OPTIONS DURING AND AFTER  
CHEMOTHERAPY

Inventors: Timothy O'Brien, John Beard, and Wilbur C. Hitt

Based on International Application No.: PCT/US12/43027

Filed: June 18, 2012

UAMS Disclosure 2011-32

Docket 110.041US1, U.S. patent application

Serial No. 14/107,751

Filed Dec. 16, 2013

Title: NEW MARKERS FOR EARLY DIAGNOSIS OF OVARIAN CANCER, MONITORING  
DURING THERAPY, AND NEW THERAPY OPTIONS DURING AND AFTER  
CHEMOTHERAPY

Inventors: Timothy O'Brien, John Beard, and Wilbur C. Hitt

UAMS Disclosure 2011-32

Docket 110.042PRV, U.S. Provisional Patent Application

Title: CHONDROITIN SULFATE SULFOTRANSFERASES AND PROTEOGLYCANS AS  
CANCER BIOMARKERS: USE OF EXPRESSION AND METHYLATION STATUS

Inventors: Behjatolah Karbassi et al.

Filed: October 1, 2011

Serial No.: 61/626,646

UAMS Disclosure 2011-29

Docket No.: 110.042US1, U.S. utility patent application.

Inventors: Behjatolah Karbassi, Thomas Kieber-Emmons, Aiwei Yao-Borengasser, Damir  
Herman, Fariba Jousheghany, and Craig Anthony Cooney

Title: CHONDROITIN SULFATE SULFOTRANSFERASES AND PROTEOGLYCANS AS  
CANCER BIOMARKERS: USE OF EXPRESSION AND METHYLATION STATUS

Serial No. 13/573,653

Filed: October 1, 2012

UAMS Disclosure 2011-29

Docket 110.043PRV1, U.S. Provisional Patent Application

Title: USE OF THE AMINOALKYLINDOLE JWH-073-M4 AND RELATED COMPOUNDS  
AS PERIPHERALLY RESTRICTED NEUTRAL CB1 RECEPTOR ANTAGONISTS FOR  
THE TREATMENT OF OBESITY AND OBESITY-RELATED DISEASES

Inventors: Paul L. Prather, William E. Fantegrossi, Lisa K. Brents, Jeffery Moran

Filed: January 9, 2012

Serial No.: 61/584,803

Docket 110.043PRV2, U.S. Provisional Patent Application

Title: USE OF THE AMINOALKYLINDOLE JWH-073-M4 AND RELATED COMPOUNDS  
AS PERIPHERALLY RESTRICTED NEUTRAL CB1 RECEPTOR ANTAGONISTS FOR  
THE TREATMENT OF OBESITY AND OBESITY-RELATED DISEASES

Inventors: Paul L. Prather, William E. Fantegrossi, Lisa K. Brents, Jeffery Moran, Laura P.  
James, Anna Radominska-Pandya

Filed: January 15, 2012

Serial No.: 61/586,823

Docket 110.043CA1

Canadian patent application no. 2,860,415

National stage application of

International Application No.: PCT/US13/020706

Title: USE OF THE AMINOALKYLINDOLE JWH-073-M4 AND RELATED COMPOUNDS  
AS PERIPHERALLY RESTRICTED NEUTRAL CB1 RECEPTOR ANTAGONISTS FOR  
THE TREATMENT OF OBESITY AND OBESITY-RELATED DISEASES

Inventors: Paul L. Prather, Thomas E. Prisinzano, William E. Fantegrossi, Lisa K. Brents,  
Jefferey Moran, Anna Radominska-Pandya, Tamara Vasiljevik

International filing date: January 8, 2013

UAMS reference No. 2012-11

KU reference No. 15KU006L

Docket 110.043US1,  
U.S. Patent No. 9,416,103  
Issued August 16, 2016  
Serial No. 14/370,951  
National stage application of  
International Application No.: PCT/US13/020706  
Title: USE OF THE AMINOALKYLINDOLE JWH-073-M4 AND RELATED COMPOUNDS  
AS PERIPHERALLY RESTRICTED NEUTRAL CB1 RECEPTOR ANTAGONISTS FOR  
THE TREATMENT OF OBESITY AND OBESITY-RELATED DISEASES  
Inventors: Paul L. Prather, Thomas E. Prisinzano, William E. Fantegrossi, Lisa K. Brents, Jeffery  
Moran, Anna Radomska-Pandya, Tamara Vasiljevik  
International filing date: January 8, 2013  
UAMS reference No. 2012-11  
KU reference No. 15KU006L

Docket 110.043WO1, PCT Patent Application  
Title: USE OF THE AMINOALKYLINDOLE JWH-073-M4 AND RELATED COMPOUNDS  
AS PERIPHERALLY RESTRICTED NEUTRAL CB1 RECEPTOR ANTAGONISTS FOR  
THE TREATMENT OF OBESITY AND OBESITY-RELATED DISEASES  
Inventors: Paul L. Prather, Thomas E. Prisinzano, William E. Fantegrossi, Lisa K. Brents, Jeffery  
Moran, Tamara Vasiljevik, Anna Radomska-Pandya  
Filed: January 8, 2013  
International Application No.: PCT/US13/020706

Docket 110.044PRV  
Title: ADENO-ASSOCIATED VIRUS "X" ONCOGENE  
Inventor: Paul L. Hermonat  
Serial No. 61/901,995  
Filed: Nov. 8, 2013  
UAMS 2013-21

Docket 110.044EP1  
European patent application no. 14878814.4  
Regional phase of:  
Title: ADENO-ASSOCIATED VIRUS "X" ONCOGENE  
Inventor: Paul L. Hermonat  
International Application No. PCT/US14/64705  
International filing date: November 8, 2014  
Priority date: November 8, 2013  
UAMS 2013-21

Docket 110.044WO1, International PCT patent application  
Title: ADENO-ASSOCIATED VIRUS "X" ONCOGENE  
Inventor: Paul L. Hermonat  
International Application No. PCT/US14/64705

International filing date: November 8, 2014  
Priority date: November 8, 2013  
UAMS 2013-21

Docket 110.044US1, U.S. utility patent application  
Serial No. 15/035,228  
Filed: May 7, 2016  
Title: ADENO-ASSOCIATED VIRUS "X" ONCOGENE  
Inventor: Paul L. Hermonat  
U.S. national stage of  
International Application No. PCT/US14/64705  
International filing date: November 8, 2014  
Priority date: November 8, 2013  
UAMS 2013-21

Docket 110.045US1, U.S. Utility Patent Application  
Title: HUMAN PAPILLOMA VIRUS DOMINANT CD4 T CELL EPITOPES AND USES THEREOF  
Inventors: Mayumi Nakagawa and Alessandro D. Santin  
Serial No. 12/284,704  
Filed: Sept. 24, 2008

Docket 110.046US1, U.S. Utility Patent Application  
Title: HPV E6 PROTEIN T CELL EPITOPES AND USES THEREOF  
Inventors: Mayumi Nakagawa  
Serial No. 12/286,822  
Filed: October 2, 2008

Docket 110.046US2, U.S. Utility Patent  
U.S. Patent No. 8,926,961  
Issued January 6, 2015  
Title: HPV E6 PROTEIN T CELL EPITOPES AND USES THEREOF  
Inventors: Mayumi Nakagawa  
Serial No. 13/136,557  
Filed: August 4, 2011

Docket 110.046US3, U.S. Utility Patent Application  
Title: HPV E6 PROTEIN T CELL EPITOPES AND USES THEREOF  
Inventors: Mayumi Nakagawa  
Serial No. 14/566,604  
Filed: December 10, 2014

Docket 110.047PRV3, U.S. Utility Provisional Patent Application  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventor: Mayumi Nakagawa  
Serial No. 61/890,306

Filed: October 13, 2013  
UAMS 2014-1

Docket 110.047PRV2, U.S. Utility Provisional Patent Application  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventor: Mayumi Nakagawa  
Serial No. 61/890,130  
Filed: October 11, 2013  
UAMS 2014-1

Docket 110.047PRV1, U.S. Utility Provisional Patent Application  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventors: Mayumi Nakagawa and Byeong S. Chang  
Serial No. 61/887,425  
Filed: October 6, 2013  
UAMS 2014-1

Docket 110.047US1, U.S. utility patent application.  
Serial No. 15/028,760  
Filed April 12, 2016  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventor: Mayumi Nakagawa and Byeong S. Chang  
National stage of  
International Application No. PCT/US14/60198  
International filing date: October 11, 2014  
UAMS 2014-1

Docket 110.047WO1  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventors: Mayumi Nakagawa and Byeong S. Chang  
International Application No. PCT/US14/60198  
Filed: October 11, 2014  
Priority date: October 13, 2013  
UAMS 2014-1

Docket 110.047AU1  
Australian national phase of:  
International Application No. PCT/US14/60198  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventors: Mayumi Nakagawa and Byeong S. Chang  
Filed: October 11, 2014  
UAMS 2014-1

Docket 110.047CA1  
Canadian Patent Application No. 2,927,126  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE



Inventors: Mayumi Nakagawa and Byeong S. Chang  
Applicant: The Board of Trustees of the University of Arkansas  
National stage of  
International Application No. PCT/US14/60198  
Filed: October 11, 2014  
UAMS 2014-1

Docket 110.047EP1  
European Patent Application No. 14853002.5  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventors: Mayumi Nakagawa and Byeong S. Chang  
Applicant: The Board of Trustees of the University of Arkansas  
European regional stage of  
International Application No. PCT/US14/60198  
Filed: October 11, 2014  
UAMS 2014-1

Docket 110.047KR1  
Korean Patent Application No. 10-2016-7011884  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventors: Mayumi Nakagawa and Byeong S. Chang  
Applicant: The Board of Trustees of the University of Arkansas  
European regional stage of  
International Application No. PCT/US14/60198  
Filed: October 11, 2014  
UAMS 2014-1

Docket 110.047JP1  
Japanese Patent Application No. JP2016-547987  
Title: HUMAN PAPILLOMA VIRUS THERAPEUTIC VACCINE  
Inventors: Mayumi Nakagawa and Byeong S. Chang  
Applicant: The Board of Trustees of the University of Arkansas  
European regional stage of  
International Application No. PCT/US14/60198  
Filed: October 11, 2014  
UAMS 2014-1

110.048US1, U.S. patent  
Title: Monoclonal antibodies which identify the glycoprotein carrying the CA125 epitope  
Inventor: Timothy J. O'Brien  
Filed September 9, 2002  
Serial No. 10/237,920  
Patent No. 7,064,188  
Issue date: June 20, 2006

Docket 110.049PRV, U.S. provisional patent application

Inventors: Nakagawa, Mayumi  
Title: RECALL ANTIGEN FOR PROMOTING T-HELPER TYPE 1 RESPONSE  
Serial No. 62/120,978  
Filed: February 26, 2015  
UAMS reference 2015-12

Docket 110.049PRV2, U.S. provisional patent application  
Inventors: Nakagawa, Mayumi  
Title: RECALL ANTIGEN FOR PROMOTING T-HELPER TYPE 1 RESPONSE  
Serial No. 62/271,124  
Filed: December 22, 2015  
UAMS Reference 2016-06

Docket 110.049WO1, PCT International Patent Application  
Inventors: Nakagawa, Mayumi  
Title: RECALL ANTIGEN FOR PROMOTING T-HELPER TYPE 1 RESPONSE  
International Application No. PCT/US16/19719  
International filing date: February 26, 2016  
Priority date: February 26, 2015  
UAMS Reference 2015-12, 2016-06

Docket 110.050PRV, U.S. provisional patent application  
Inventors: Nakagawa, Mayumi; and Al-Ola Abdallah  
Title: A Treatment Vaccine for Prostate Cancer  
Serial No. 62/120,991  
Filed: February 26, 2015  
UAMS reference 2015-13

Docket 110.050WO1, PCT International Patent Application  
Inventors: Nakagawa, Mayumi; and Al-Ola Abdallah  
Title: A TREATMENT VACCINE FOR PROSTATE CANCER  
International Application No. PCT/US16/19739  
International filing date: February 26, 2016  
Priority date: February 26, 2015  
UAMS reference 2015-13