PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4929801

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GEORGE D. HARRIS JR.	09/09/2015
KEVIN J. KOELLER	10/29/2015
JAMES K. BASHKIN	11/11/2015

RECEIVING PARTY DATA

Name:	THE CURATORS OF THE UNIVERSITY OF MISSOURI
Street Address:	316 UNIVERSITY HALL
City:	COLUMBIA
State/Country:	MISSOURI
Postal Code:	65211

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14818881

CORRESPONDENCE DATA

Fax Number: (269)382-2030

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: 269-382-0030

Email: dlm@hueschen-sage.us

THE FIRM OF HUESCHEN AND SAGE **Correspondent Name:**

Address Line 1: 107 W MICHIGAN AVE

Address Line 2: 7TH FLOOR

Address Line 4: KALAMAZOO, MICHIGAN 49007

ATTORNEY DOCKET NUMBER:	NANOVIR 1 US CIP
NAME OF SUBMITTER:	DIANE L. MULDER
SIGNATURE:	/Diane L. MULDER/
DATE SIGNED:	04/24/2018

Total Attachments: 11

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> **PATENT** REEL: 045622 FRAME: 0494 504883060

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PATENT REEL: 045622 FRAME: 0495

ASSIGNMENT OF PATENT RIGHTS FROM INVENTORS TO UNIVERSITY

This Assignment of Patent Rights from Inventor to University Agreement ("Agreement") is entered into by and between George D. Harris, Jr., an individual having an address of 36 Shady Valley Drive, Chesterfield, MO 63017, and Kevin J. Koeller, an individual having an address of 7350 Wise Ave., Richmond Heights, MO 63117 ("Assignors") and The Curators of the University of Missouri, a public corporation of the State of Missouri having a principal place of business at 316 University Hall, Columbia, Missouri 65211, U.S.A. ("Assignce").

WHEREAS Assignors have contributed to the subject matter of the invention disclosed, described, and/or claimed in UM Invention Disclosure No. 12UMS003 entitled GUANIDINYL-SUBSTITUTED POLYAMIDES USEFUL FOR TREATING HUMAN PAPILLOMA VIRUS ("Invention Disclosure Form") which is the subject of United States Patent Application Serial No. 14/818,881 filed on August 05, 2015, and entitled ANTIVIRAL COMPOUNDS AND METHODS FOR TREATING INFECTIONS CAUSED BY DOUBLE-STRANDED DNA VIRUSES ("Patent Application"); and

WHEREAS, pursuant to Assignors' assignment obligations under the Assignce's Collected Rules and Regulations § 100.020, Assignors have an obligation to convey any and all rights that Assignors have or might have in the aforementioned invention and Patent Application; and

WHEREAS Assignors have previously executed an assignment dated February 7, 2012, related to the invention disclosed, described, and/or claimed in the Invention Disclosure Form; and

WHEREAS Assignors are willing to execute this notarized Agreement in order to confirm the assignment of rights in the Patent Application (and other rights as more fully set forth below) to Assignee.

NOW THEREFORE, in consideration of Assignors' past and continued employment with and use of Assignee's funds and facilities, Assignors' assignment obligations and royalty-sharing rights under the Collected Rules and Regulations § 100.020, the sum of USD \$1.00 in-hand paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Assignment

Assignors hereby assign, transfer, and convey (and confirm any prior such conveyance as the case may be) to Assignee, and Assignee hereby accepts, Assignors' entire right, title and interest in and to:

- (a) the invention disclosed and/or claimed, in whole or in part, in the Patent Application and any and all improvements therein conceived or reduced to practice by each of Assignors in the course of and the general scope of each of Assignors' employment with Assignee (collectively the "Invention");
- (b) all patents and patent applications that have been or may hereafter be filed which are based on the Invention in any country, including the Patent Application and

University of Missouri
Assignment of Patent Rights from Inventors to University

Delegated Standard Form Revised 4/1/14

- any provisional non-provisional, divisional, continuation, continuation-in-part, extension, renewal, re-examination, reissue, substitute, supplementary protection certificate, utility model, or similar legal protection based on the Invention ("Patents");
- (c) the right to claim priority to any of the Patents under the patent laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or laws of the country in which the Patents are filed, as may be applicable; and
- (d) all rights of action, powers, and benefits arising from ownership of the Patents, including the right to sue for past, present, and future infringement of the Patents, the right to collect royalties, fees, damages, and payments now or hereafter due or payable with respect to the Patents, the right to seek injunctive relief based on the Patents, and the right to pursue all causes of action and all enforcement rights relating to the Patents, whether known or unknown, currently pending or otherwise.

Assignors' rights assigned in (a)-(d) above are referred to collectively in this Agreement as the "Assigned Rights."

Assignors authorize and request the Director of the United States Patent and Trademark Office, and any corresponding entity, agency, or official of any other country whose duty it is to issue patents or similar legal protection, to issue the Patents to Assignee such that the Patents will be held by Assignee for its own use and benefit, for the full term for which the Patents are or may be granted.

Further Assurances

Upon the reasonable request of Assignee, Assignors agree to execute such documents and perform such acts as may be necessary to give full effect to the terms of this Agreement. Without limiting the generality of the foregoing, Assignors agree to execute any and all assignments and other documents that may be needed to record, vest, or perfect Assignee's right, title, and interest in and to the Assigned Rights as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment had not been made. Assignors also agree to execute any and all declarations, oaths, specifications, and other documents requested by Assignee in connection with prosecution of the Patents. Assignors further agree to cooperate with and assist Assignee with respect to prosecution of the Patents, including communication to Assignee of any facts known to Assignors relating to the Invention and/or any prior art that may be material to patentability of the Invention. Assignors also agree that in the event any of the Patents become involved in an interference, derivation proceeding, re-examination, reissue, opposition, supplemental examination, inter partes review, post grant review, validity, or infringement proceeding or litigation, Assignors will cooperate with and assist Assignee in relation to the proceeding for the benefit of Assignee at Assignee's expense.

Representations and Warranties

Assignors represent and warrant to Assignce that:

(a) Assignors have the full right and power to enter into and perform their obligations under this Agreement without being in breach of any obligations owed by Assignors to any third party;

University of Missouri Assignment of Patent Rights from Inventors to University

Delegated Standard Form Revised 4/1/14

- (b) The Assigned Rights are free and clear of any agreement, lien, charges, encumbrances, ownership claim, or other claim or right, either written, oral, or implied, which will impair, interfere or conflict with the rights herein assigned to Assignee; and
- (c) Assignors have not assigned, transferred, or otherwise conveyed and will not assign, transfer, or otherwise convey to any third party any right or license under or with respect to the Assigned Rights or execute any other agreement that is in conflict with this Agreement.

4. Attorney-In-Fact

Assignors hereby irrevocably appoint the President of Assignee, or the President's designee, as each of Assignors' attorney-in-fact with authority to execute for Assignors and on Assignors' behalf any and all assignments, applications, or other instruments and documents required to be executed by Assignors pursuant to this Agreement, if Assignors are unwilling or unable to execute same. This appointment shall be deemed to be a power coupled with an interest, and as such, is irrevocable.

5. Patent Application Information

Assignors hereby authorize Assignee or its attorneys to insert in this Assignment the serial number and filing date of the Patent Application when known.

Binding Agreement

The provisions of this Agreement are binding upon, and will inure to the benefit of, the parties hereto and their respective heirs, personal representatives, successors and permitted assigns.

7. Counterparts

This Agreement may be executed in any number of counterparts, including facsimile or scanned PDF documents. Each such counterpart, facsimile or scanned PDF document shall be deemed an original instrument, and all of such counterparts, together, shall constitute one and the same executed Agreement.

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IN WITNESS WHEREOF, Assignors and Assignee have executed this Assignment Agreement as of the day and year written below.

GEORGE D. HARRIS, JR.	
The state of the s	9-9-15
Title / Date	
Acknowledgement	
STATE OF TO 1550CP2.	
COUNTY OF ST 2045)	
On this day of 20/5, be State and County aforesaid, personally appeared George I to me to be the person of that name who signed and se	
(SEAL)	
My Commission Expires: 12 2 2 2016	COULA, CAMPBELL Motory Public, Notory Sept State of Missouri Fix Louis County Commission # 12393920 My Commission Extens August 62, 2016

KEVIN J. KOELLER	
By King Kasel	1 Oct, 29, 2015 Professor Date
Inte Research Asossfort	Preferacy Date
	Acknowledgement
STATE OF MISSOURI)
STATE OF MISSOURI COUNTY OF <u>S7</u> LOUIS)
	ally appeared Kevin J. Koeller, to me known and known to who signed and sealed the foregoing instrument, and he act and deed. Notary Public
(SEAL)	·
My Commission Expires: 7/29/	<u> </u>
KAREN O. BOYO Notary Public - Natary Sael State of Missouri Commissioned for St. Louis County My Commission Engines September 29, 2018 Commission Number 1,4830382	

issouri 5 Delegated Standard Form University of Missouri Assignment of Patent Rights from Inventors to University

Revised 4/1/14

THE CURATORS OF THE UNIVERSITY OF MISSOURI
By July July Date Tamara Wilgers. Director, Technology Commercialization & Economic Development
Delegated and Ameraved as to Legal Form Henry C. Foley, Executive Vice President for Academic Affairs
Acknowledgement
STATE OF MISSOURI) SS COUNTY OF \$\frac{\pi}{2} \langle \circ{\pi}{2} \langle \langle \circ{\pi}{2} \langle \langle \circ{\pi}{2} \l
On this 25th day of 2015 A 2015, before me, a Notary Public in and for the State and County aforesaid, personally appeared Dr. Henry C. Foley, to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed on behalf of The Curators of the University of Missouri.
(SEAL)
My Commission Expires: 2/29/18
Notary Public - Notary Sect State of Missouri Commissioned for St. Louis County My Commission Express September 20, 2015 Commission Number 14550369

ASSIGNMENT OF PATENT RIGHTS FROM INVENTOR TO UNIVERSITY

This Assignment of Patent Rights from Inventor to University Agreement ("Agreement") is entered into by and between James K. Bashkin, an individual having an address of 7739 Stanford Ave., St. Louis, MO 63130-2842 ("Assignor") and The Curators of the University of Missouri, a public corporation of the State of Missouri having a principal place of business at 316 University Hall, Columbia, Missouri 65211, U.S.A. ("Assignee").

WHEREAS Assignor has contributed to the subject matter of the invention disclosed, described, and/or claimed in UM Invention Disclosure No. 12UMS003 entitled GUANIDINYL-SUBSTITUTED POLYAMIDES USEFUL FOR TREATING HUMAN PAPILLOMA VIRUS ("Invention Disclosure Form") which is the subject of United States Patent Application Serial No. 14/818,881 filed on August 05, 2015, and entitled ANTIVIRAL COMPOUNDS AND METHODS FOR TREATING INFECTIONS CAUSED BY DOUBLE-STRANDED DNA VIRUSES ("Patent Application"); and

WHEREAS, pursuant to Assignor's assignment obligations under the Assignee's Collected Rules and Regulations § 100.020, Assignor has an obligation to convey any and all rights that Assignor has or might have in the aforementioned invention and Patent Application; and

WHEREAS Assignor has previously executed an assignment dated December 15, 2011 related to the invention disclosed, described, and/or claimed in the Invention Disclosure Form; and

WHEREAS Assignor is willing to execute this notarized Agreement in order to confirm the assignment of rights in the Patent Application (and other rights as more fully set forth below) to Assignee.

NOW THEREFORE, in consideration of Assignor's past and continued employment with and use of Assignce's funds and facilities, Assignor's assignment obligations and royaltysharing rights under the Collected Rules and Regulations § 100.020, the sum of USD \$1.00 inhand paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1 Assignment

Assignor hereby assigns, transfers, and conveys (and confirm any prior such conveyance as the case may be) to Assignee, and Assignee hereby accepts, Assignor's entire right, title and interest in and to:

- the invention disclosed and/or claimed, in whole or in part, in the Patent (a) Application and any and all improvements therein conceived or reduced to practice by Assignor in the course of and the general scope of each of Assignor's employment with Assignee (collectively the "Invention");
- all patents and patent applications that have been or may hereafter be filed which (b) are based on the Invention in any country, including the Patent Application and any provisional, non-provisional, divisional, continuation, continuation-in-part,

1

- extension, renewal, re-examination, reissue, substitute, supplementary protection certificate, utility model, or similar legal protection based on the Invention ("Patents");
- (c) the right to claim priority to any of the Patents under the patent laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or laws of the country in which the Patents are filed, as may be applicable; and
- (d) all rights of action, powers, and benefits arising from ownership of the Patents, including the right to sue for past, present, and future infringement of the Patents, the right to collect royalties, fees, damages, and payments now or hereafter due or payable with respect to the Patents, the right to seek injunctive relief based on the Patents, and the right to pursue all causes of action and all enforcement rights relating to the Patents, whether known or unknown, currently pending or otherwise.

Assignor's rights assigned in (a)-(d) above are referred to collectively in this Agreement as the "Assigned Rights."

Assignor authorizes and request the Director of the United States Patent and Trademark Office, and any corresponding entity, agency, or official of any other country whose duty it is to issue patents or similar legal protection, to issue the Patents to Assignee such that the Patents will be held by Assignee for its own use and benefit, for the full term for which the Patents are or may be granted.

2. Further Assurances

Upon the reasonable request of Assignee, Assignor agrees to execute such documents and perform such acts as may be necessary to give full effect to the terms of this Agreement. Without limiting the generality of the foregoing, Assignor agrees to execute any and all assignments and other documents that may be needed to record, vest, or perfect Assignee's right, title, and interest in and to the Assigned Rights as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made. Assignor also agrees to execute any and all declarations, oaths, specifications, and other documents requested by Assignee in connection with prosecution of the Patents. Assignor further agrees to cooperate with and assist Assignee with respect to prosecution of the Patents, including communication to Assignee of any facts known to Assignor relating to the Invention and/or any prior art that may be material to patentability of the Invention. Assignor also agrees that in the event any of the Patents become involved in an interference, derivation proceeding, re-examination, reissue, opposition, supplemental examination, inter partes review, post grant review, validity, or infringement proceeding or litigation, Assignor will cooperate with and assist Assignee in relation to the proceeding for the benefit of Assignee at Assignee's expense.

Representations and Warranties

Assignor represents and warrants to Assignee that:

(a) Assignor has the full right and power to enter into and perform their obligations under this Agreement without being in breach of any obligations owed by Assignor to any third party;

- (b) The Assigned Rights are free and clear of any agreement, lien, charges, encumbrances, ownership claim, or other claim or right, either written, oral, or implied, which will impair, interfere or conflict with the rights herein assigned to Assignee; and
- (c) Assignor has not assigned, transferred, or otherwise conveyed and will not assign, transfer, or otherwise convey to any third party any right or license under or with respect to the Assigned Rights or execute any other agreement that is in conflict with this Agreement.

4. Attorney-In-Fact

Assignor hereby irrevocably appoint the President of Assignce, or the President's designee, as each of Assignor's attorney-in-fact with authority to execute for Assignor and on Assignor's behalf any and all assignments, applications, or other instruments and documents required to be executed by Assignor pursuant to this Agreement, if Assignor is unwilling or unable to execute same. This appointment shall be deemed to be a power coupled with an interest, and as such, is irrevocable.

Patent Application Information

Assignor hereby authorizes Assignee or its attorneys to insert in this Assignment the serial number and filing date of the Patent Application when known.

6. Binding Agreement

The provisions of this Agreement are binding upon, and will inure to the benefit of, the parties hereto and their respective heirs, personal representatives, successors and permitted assigns.

7. Counterparts

This Agreement may be executed in any number of counterparts, including facsimile or scanned PDF documents. Each such counterpart, facsimile or scanned PDF document shall be deemed an original instrument, and all of such counterparts, together, shall constitute one and the same executed Agreement.

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IN WITNESS WHEREOF, Assignor and Assignee have executed this Assignment Agreement as of the day and year written below.

JAMES K. BASHKIN By James K. Date Title J. Standard J. Date Date
Acknowledgement
STATE OF MISSOURI) SS COUNTY OF ST LOUIS) On this 11 + day of NOVEMBER, 20 15, before me, a Notary Public in and for the State and County aforesaid, personally appeared James K. Bashkin, to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed. Notary Public
My Commission Expires: 4/24//9 My Commission Expires: 4/24//9 Notary Public - Notary Seat State of Missouri Commission Expires: September 29, 2018 Commission Number: 14630382

THE CURATORS OF THE UNIVERSITY OF MISSOURI
By
Delegated and Approved as to Legal Form Henry C. Foley, Executive Vice President for Academic Affairs
Acknowledgement
STATE OF MISSOURI) SS COUNTY OF ST 424/S)
On this 1/44 day of November 20 15 before me, a Notary Public in and for the State and County aforesaid, personally appeared Tamara Wilgers, to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and she acknowledged the same to be her free act and deed on behalf of The Curators of the University of Missouri.
(SEAL) My Commission Expires: 1/2-9// \$\frac{\karen 0 B0YD}{\text{Notary Public - Notary Seal}} \\ State of Missourt \\ Commissioned for St. Louis County \\ My Commission Expires: September 29, 2018 \\ Commission Number: 14630382

RECORDED: 04/24/2018 REEL: 045622 FRAME: 0506