

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4965767

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DARREN J. BAKER	09/15/2016
BENNETT G. CHILDS	09/15/2016
JAMES L. KIRKLAND	09/09/2016
TAMAR TCHKONIA	09/09/2016
JAN M.A. VAN DEURSEN	09/23/2016
YI ZHU	10/31/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH
<b>Street Address:</b>	200 FIRST STREET S.W.
<b>City:</b>	ROCHESTER
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55905
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15981696
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(858)350-2399
<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>	8583502300
<b>Email:</b>	asgarcia@wsgr.com, patentdocket@wsgr.com
<b>Correspondent Name:</b>	WILSON SONSINI GOODRICH & ROSATI
<b>Address Line 1:</b>	650 PAGE MILL ROAD
<b>Address Line 4:</b>	PALO ALTO, CALIFORNIA 94304
<b>ATTORNEY DOCKET NUMBER:</b>	44237-721.310
<b>NAME OF SUBMITTER:</b>	ASHLEY GARCIA
<b>SIGNATURE:</b>	/Ashley Garcia/
<b>DATE SIGNED:</b>	05/17/2018
<b>Total Attachments: 6</b>	

source=Unity 44237-721.310 Assignment as filed - Mayo#page1.tif  
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source=Unity 44237-721.310 Assignment as filed - Mayo#page6.tif

PATENT ASSIGNMENT

Docket Number 44237-721.831

WHEREAS, the undersigned:

- |  |  |   |   |
|--|--|---|---|
| 1. Darren J. BAKER<br>2350 Granite Circle NW<br>Rochester, MN 55901            | 2. Bennett G. CHILDS<br>1620 2 <sup>nd</sup> St. SE<br>Rochester, MN 55906 | 3. James L. KIRKLAND<br>925 6 <sup>th</sup> St. SW<br>Rochester, MN 55902 | 4. Tamar TCHKONIA<br>834 11 <sup>th</sup> St. NW<br>Rochester, MN 55901 |
| 5. Jan M.A. VAN DEURSEN<br>1910 11 <sup>th</sup> St. SW<br>Rochester, MN 55902 |  |   |   |

(hereinafter "Inventor(s)"), have invented certain new and useful improvements in

**METHODS AND COMPOSITIONS FOR KILLING SENESCENT CELLS AND FOR TREATING SENESCENCE-ASSOCIATED DISEASES AND DISORDERS**

- for which a United States patent application is executed on even date herewith;
- for which application serial number 15/114,762 was filed on July 27, 2016 in the United States Patent and Trademark Office;
- for which a PCT application serial number \_\_\_\_\_ was filed on \_\_\_\_\_ in the [ ] Receiving Office of the Patent Cooperation Treaty;
- for which application serial number \_\_\_\_\_ was filed on \_\_\_\_\_ in the \_\_\_\_\_ Patent Office;
- for which an application was filed upon which a United States Patent issued on \_\_\_\_\_, as U.S. Patent No. \_\_\_\_\_; or
- for which a PCT application will be filed on or before [insert 12-month date] in the [ ] Receiving Office of the Patent Cooperation Treaty

which will claim priority to [\_\_\_\_\_].

(hereinafter, "Application(s)"). The term "Application(s)" also includes all patent applications that share or claim priority to or from the above application(s).

WHEREAS, Mayo Foundation for Medical Education and Research, a corporation of the State of Minnesota, having a place of business at 200 First Street SW, Rochester, MN 55905, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s), and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise (hereinafter "Patent(s)").

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions; (b) in and to said Applications, including the right to claim priority to and from said Application(s); (c) in and to each and every application that is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); (d) in and to said Patent(s) and each and every patent issuing or reissuing from any of the foregoing; (e) in and to each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing; (f) in and to each and every patent and application filed outside the United States and corresponding to any of the foregoing; and (g) in and to all claims for past, present and future infringement of the Patent(s), including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Patent(s).

2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.

4. Said Inventor(s) hereby warrant, represent and covenant that said Inventor(s) have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.

6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:

PATENT ASSIGNMENT

Docket Number 44237-721.831

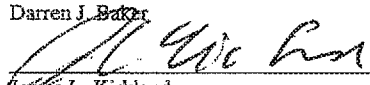
Date: \_\_\_\_\_

Darren J. Baker

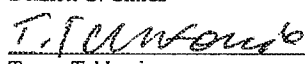
Date: \_\_\_\_\_

Bennett G. Childs

Date: 9/9/2016

  
James L. Kirkland

Date: 9/9/2016

  
Tamar Tchkonina

Date: \_\_\_\_\_

Jan M.A. van Deursen

RECEIVED AND AGREED TO BY ASSIGNEE:  
Mayo Foundation for Medical Education and Research

Date: 9-23-2016

Signature: 

Name: Daniel D. Estes

Title: Assistant Treasurer

**PATENT ASSIGNMENT**

Docket Number 44237-721.831

Date: \_\_\_\_\_  
Darren J. Baker

Date: \_\_\_\_\_  
Bennett G. Childs

Date: \_\_\_\_\_  
James L. Kirkland

Date: \_\_\_\_\_  
Tamar Tchkontia

Date: 9.23.2016  
  
Jan M.A. van Nieuwen

RECEIVED AND AGREED TO BY ASSIGNEE:  
Mayo Foundation for Medical Education and Research

Date: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Name: Daniel D. Estes  
Title: Assistant Treasurer

PATENT ASSIGNMENT		Docket Number 44237-721.831	
Date: <u>9.15.16</u>	<u>[Signature]</u> Darren J. Baker	Date: <u>9.15.16</u>	<u>[Signature]</u> Bennett G. Childs
Date: _____	James L. Kirkland	Date: _____	Tamar Tchkonja
Date: _____	Jan M.A. van Deursen		
RECEIVED AND AGREED TO BY ASSIGNEE: Mayo Foundation for Medical Education and Research			
Date: _____	Signature: _____ Name: Daniel D. Estes Title: Assistant Treasurer		

Notarized, September 15, 2016.

By: Tamara F. Wilson  
Tamara F. Wilson



Commission Expires: January 31, 2019

## PATENT ASSIGNMENT

Docket Number 44237-721.831

WHEREAS, the undersigned:

- Yi Zhu  
1532 10<sup>th</sup> Street Southeast  
Apt. 4C  
Rochester, MN 55904

(hereinafter "Inventor(s)", have invented certain new and useful improvements in

**METHODS AND COMPOSITIONS FOR KILLING SENESCENT CELLS AND FOR TREATING SENESCENCE-ASSOCIATED DISEASES AND DISORDERS**

- for which a United States patent application is filed on even date herewith;
- for which application serial number 15/114,762 was filed on July 27, 2016 in the United States Patent and Trademark Office;
- for which a PCT application serial number \_\_\_\_\_ was filed on \_\_\_\_\_ in the [ ] Receiving Office of the Patent Cooperation Treaty;
- for which application serial number \_\_\_\_\_ was filed on \_\_\_\_\_ in the \_\_\_\_\_ Patent Office;
- for which an application was filed upon which a United States Patent issued on \_\_\_\_\_, as U.S. Patent No. \_\_\_\_\_; or
- for which a PCT application will be filed on or before [insert 12-month date] in the [ ] Receiving Office of the Patent Cooperation Treaty

which will claim priority to [\_\_\_\_\_].

(hereinafter, "Application(s)"). The term "Application(s)" also includes all patent applications that share or claim priority to or from the above application(s).

WHEREAS, Mayo Foundation for Medical Education and Research, a charitable corporation of the State of Minnesota, having a place of business at 200 First Street, S.W., Rochester, MN 55905, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s), and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise (hereinafter "Patent(s)").

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions; (b) in and to said Applications, including the right to claim priority to and from said Application(s); (c) in and to each and every application that is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); (d) in and to said Patent(s) and each and every patent issuing or reissuing from any of the foregoing; (e) in and to each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing; (f) in and to each and every patent and application filed outside the United States and corresponding to any of the foregoing; and (g) in and to all claims for past, present and future infringement of the Patent(s), including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Patent(s).

2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.

4. Said Inventor(s) hereby warrant, represent and covenant that said Inventor(s) have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.

6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:

PATENT ASSIGNMENT

Docket Number 44237-721.831

Date: Oct. 31, 2017

Yi Zhu

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of Minnesota Olmsted County of           

On Oct 31, 2017

before me,

Stacy A. Stier

Notary Public

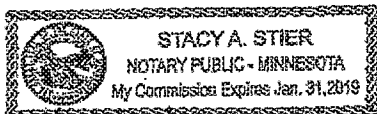
Date

Here Insert Name and Title of the Officer

personally appeared Yi Zhu

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of Minnesota that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Stacy A. Stier  
Signature of Notary Public

Place Notary Seal Above

RECEIVED AND AGREED TO BY ASSIGNEE:  
Mayo Foundation for Medical Education and Research

Date: 10-31-2017

Signature: [Signature]

Name: Daniel D. Estes

Title: Assistant Treasurer