

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4651321

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ABDULHAFEZ ABDULWAHED ABDULHAFEZ	09/29/2017
HELEN NEWMAN	10/18/2017
LAWRENCE SHIMP	10/04/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PROGENICA THERAPEUTICS, LLC
<b>Street Address:</b>	PO BOX 703
<b>City:</b>	KENT
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98035
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15687199
<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>	612-340-2600
<b>Email:</b>	ip.docket@dorsey.com
<b>Correspondent Name:</b>	DORSEY & WHITNEY LLP
<b>Address Line 1:</b>	50 SOUTH SIXTH STREET, SUITE 1500
<b>Address Line 2:</b>	INTELLECTUAL PROPERTY PRACTICE GROUP
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402-1498
<b>ATTORNEY DOCKET NUMBER:</b>	P267344.US.01
<b>NAME OF SUBMITTER:</b>	KATHERINE BENTON
<b>SIGNATURE:</b>	/Katherine Benton/
<b>DATE SIGNED:</b>	10/20/2017
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

First Named Inventor:

Abdulhafez Abdulwahed Abdulhafez

Title: SURFACE ENHANCED DEMINERALIZED  
BONE GRAFT MATERIAL

Docket No. P267344.US.01

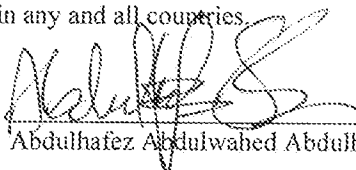
WHEREAS, I, Abdulhafez Abdulwahed Abdulhafez, of Hickory Hill, TN; Helen Newman, of Seattle, WA; and Lawrence Shimp, of Burlington, WI, have invented certain new and useful improvements as described in an application entitled **SURFACE ENHANCED DEMINERALIZED BONE GRAFT MATERIAL** for Letters Patent of the United States, the application being identified by the Attorney Docket Number set forth above and/or being identified in the United States Patent and Trademark Office by Application No. 15/687,199, filed August 25, 2017;

WHEREAS, Progenica Therapeutics, LLC, a limited liability company organized and existing under the laws of the State of Washington, with mailing address of PO Box 703, Kent, WA, 98035, U.S.A. ("Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title, and interest in and to the invention, the above-identified patent application, corresponding domestic applications (including provisionals, non-provisionals, divisionals, continuations, and continuations-in-part, reissues, reexaminations or extensions thereof), corresponding foreign applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and I authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

If the application number and filing date are unknown at the time of preparing this Assignment, I authorize the Assignee, its successors and assigns, to insert this instrument the filing date and application number of the application when ascertained. I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

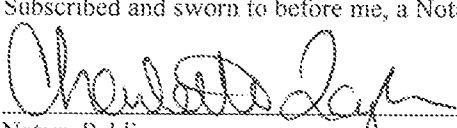
  
Abdulhafez Abdulwahed Abdulhafez

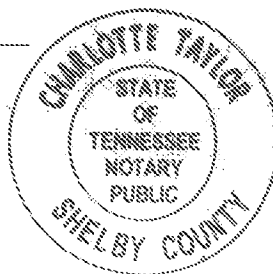
9/29/2017  
(date)

**CERTIFICATE OF ACKNOWLEDGMENT**

STATE OF Tennessee  
COUNTY OF Shelby : SS.

Subscribed and sworn to before me, a Notary Public, this 29 day of September, 2017.

  
Notary Public



My Commission Expires  
July 14, 2020

**PATENT****REEL: 043916 FRAME: 0385**

**ASSIGNMENT**

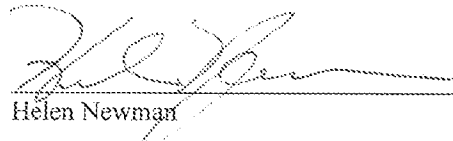
First Named Inventor:

Abdulhafez Abdulwahed Abdulhafez

Title: SURFACE ENHANCED DEMINERALIZED  
BONE GRAFT MATERIAL

Docket No. P267344.US.01

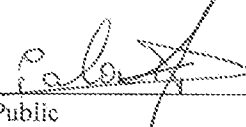
DIALA ABDO KHALED  
Notary Public  
State of Washington  
My Appointment Expires Oct 24, 2020

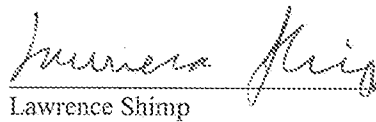
 18 Oct 2017  
Helen Newman (date)

**CERTIFICATE OF ACKNOWLEDGMENT**

STATE OF WA )  
COUNTY OF King ) : SS.

Subscribed and sworn to before me, a Notary Public, this 10 day of 18, 2017.

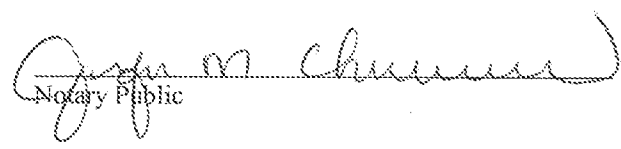
  
Notary Public

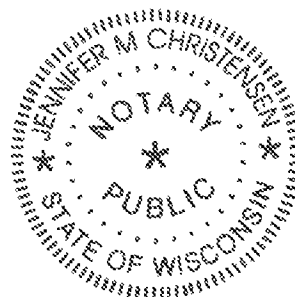
 10/04/2017  
Lawrence Shimp (date)

**CERTIFICATE OF ACKNOWLEDGMENT**

STATE OF Wisconsin )  
COUNTY OF Walworth ) : SS.

Subscribed and sworn to before me, a Notary Public, this 4th day of October, 2017.

  
Notary Public

**PATENT****REEL: 043916 FRAME: 0386**

# ASSIGNMENT

Page 3 of 3

First Named Inventor:

Abdulhafez Abdulwahed Abdulhafez

Title: SURFACE ENHANCED DEMINERALIZED  
BONE GRAFT MATERIAL

Docket No. P267344.US.01

## ACCEPTANCE OF ASSIGNMENT

The Assignee hereby acknowledges and accepts the foregoing assignment of rights by Assignor.

IN TESTIMONY WHEREOF, the Assignee, by its undersigned officer, confirms its acceptance on the date and in the place set forth below.

Progenica Therapeutics, LLC

Date: 18 Oct 2017

by: [Signature]

Name: Helen Newman

Title: Member

STATE OF WA )

COUNTY OF King ) ss.

On this 10 day of 18, 2017, before me a Notary Public in and for said county, personally appeared Helen Newman the above-mentioned representative of the Assignee, Progenica Therapeutics, LLC, who executed the foregoing patent Assignment, and represented and acknowledged that he/she had the requisite corporate authority to execute and accept this patent Assignment and the same was executed as a free act and deed.

DIALA ABDO KHALED  
Notary Public  
(State of Washington)  
My Appointment Expires Oct 24, 2020

[Signature]  
Notary Public

My commission expires: Oct - 24 - 2020