

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID CLEMMONS	03/21/2014
LAURA MAILE	03/21/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
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<b>Postal Code:</b>	27599
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14728379
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	3335.0060002
<b>NAME OF SUBMITTER:</b>	SCOTT A. SCHALLER
<b>SIGNATURE:</b>	/Scott A. SCHALLER #60,167/
<b>DATE SIGNED:</b>	11/17/2016
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **David Clemmons**, a citizen of the United States of America, having an address at 349 Tenney Circle, Chapel Hill, NC 27514; and **Laura Maile**, a citizen of the United Kingdom, having an address at 9113 Coachway, Chapel Hill, NC 27516;

WITNESSETH: That,

WHEREAS, we are joint inventors, along with Michael Naso, Francis J. Carr, Timothy D. Jones, and Simon William Keen, of certain new and useful improvements in **MONOCLONAL ANTIBODIES FOR ENHANCING OR INHIBITING INSULIN-LIKE GROWTH FACTOR-I (IGF-I)**, for which U.S. Provisional Patent Application No. 61/695,409 was filed on August 31, 2012, PCT International Application Serial No. PCT/US2013/057484 was filed on August 30, 2013 and U.S. Patent Application No. 14/015,457 was filed August 30, 2013, and;


WHEREAS, **The University of North Carolina at Chapel Hill**, a constituent institution of The University of North Carolina and an educational institution chartered under the laws of the State of North Carolina having a principal place of business at 308 Bynum Hall, Campus Box 4105, Chapel Hill, North Carolina, hereinafter referred to as assignee, is desirous of acquiring our partial right, title and interest in and to the invention as described in said applications, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the partial right, title, and interest in and to the said invention and applications, and in and to any and all subsequent patent applications which claim the benefit of priority from said applications including regular utility, continuations, and continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted for the invention in or on applications claiming the benefit of priority from said applications, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereof or therefor, together with the right to claim the benefit of priority from said applications in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess a partial right, title and interest in and to the invention and applications above-mentioned, and that we have the unencumbered right and authority to make this assignment of our partial right, title and interest.

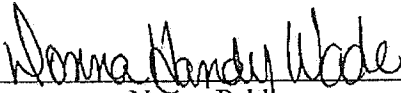
We further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 21 day of March, 2014.

  
\_\_\_\_\_  
DAVID CLEMMONS

STATE OF North Carolina  
COUNTY OF Orange

Before me personally appeared the person described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same for the purposes therein stated, this 21 day of March, 2014.

  
\_\_\_\_\_  
Notary Public

SEAL

My Commission Expires: 12-26-2016

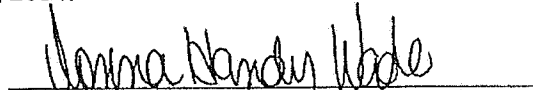
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 21 day of  
March, 2014.

  
\_\_\_\_\_  
LAURA MAILE

STATE OF North Carolina)

COUNTY OF Orange)

Before me personally appeared the person described in and who executed the foregoing instrument, and she acknowledged to me that she executed the same for the purposes therein stated, this 21 day of March, 2014.

  
\_\_\_\_\_  
Notary Public

SEAL

My Commission Expires: 12-26-2016