PATENT ASSIGNMENT

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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY DATA					
N			lame	Execution Date	
Afsaneh Rabiei 08/20/2009					
RECEIVING PARTY DATA					
Name:	North Carolina State University				
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PROPERTY NUMBERS Total: 1					
Property Type			Number		
Application Number: 12417		12417	113		
Application Number: 12417113 CORRESPONDENCE DATA 7					
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ATTORNEY DOCKET NUMBER:			035051/326402		
NAME OF SUBMITTER:					
NAME OF SUBMITTE	R:		Jessica L. Gorczynski		

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

NORTH CAROLINA STATE UNIVERSITY 920 Main Campus Drive, Suite 400 Raleigh, NC 27695-8210

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in "FUNCTIONALLY GRADED BIOCOMPATIBLE COATING AND COATED IMPLANT"

as set forth in this United States Patent Application

executed concurrently herewith

executed on

Application No. 12/417,113; filed April 2, 2009.

Application claims priority from Application No. 11/082,180, filed March 16, 2005, all applications listed above being hereinafter referred to as the "application(s)";

(We hereby authorize and request the Assignee and its attorney (Alston & Bird LLP) to insert above the application number and filing date of said application when known.)

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in

> PATENT REEL: 023122 FRAME: 0416

form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as March 16, 2005 (the earliest priority date).

AFSANEH RABIEI

State of North Carl in County of _____/#Ac

1, <u>Adda</u>, a Notary Public for said County and State, do hereby certify that AFSANEH RABIEI personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 26^{22} day of _2 2009. (Official Seal) Notary Public My commission expires Dera

