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TO: DEBORAH A. SOMERVILI COMPANY: ONE BROADWAY

PATENT ASSIGNMENT							
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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT				
NATURE OF CONVEYAN	ICE:	ASSIGNMENT	ASSIGNMENT				
CONVEYING PARTY DA	ΓΑ						
		Name	Execution Date	ı			
Michael R. Rosen			07/01/2008	ı			
Richard B. Robinson			07/01/2008				
RECEIVING PARTY DATA	Α						
Name: Th	The Trustees of Columbia University in the City of New York						
Street Address: 53	535 West 116th Street						
City: No	New York						
State/Country: NE	NEW YORK						
Postal Code: 10	027			1			
PROPERTY NUMBERS T	otal: 1						
Property Type		Number					
Application Number: 1207		2077970		<u> </u>			
CORRESPONDENCE DA	TA (212)425-5	288		CAD 00 12077070			
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Dhamas 242 465 7000							
Email: charles@kenyoл.com							
Correspondent Name: DEBORAH A. SOMERVILLE							
Address Line 1: ONE BROADWAY Address Line 2: KENYON & KENYON LI P							
Address Line 2: KENYON & KENYON LLP Address Line 4: NEW YORK, NEW YORK 10004							
ATTORNEY DOCKET NUI	MBER:	13533/50003	The state of the s	1			
NAME OF SUBMITTER:		Deborah A. Somerville					
Total Attachments: 2 source=13533_50003CUAsalgnment#page1.tif source=13533_50003CUAssignment#page2.tif							

**PATENT** 

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## <u>ASSIGNMENT</u>

WHEREAS, we,

Michael R. Rosen
25 East 86<sup>th</sup> Street
Apt. 14C
New York, New York 10028
Citizenship: United States of America;

and

Richard B. Robinson 67 Roosevelt Street Cresskill, New Jersey 07626 Citizenship: United States of America;

have made inventions and discoveries in QUANTUM DOT LABELED STEM CELLS FOR USE IN PROVIDING PACEMAKER FUNCTION for which an application for Letters Patent was filed on March 21, 2008 and assigned U.S. Patent Application Serial No. 12/077,970;

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, having a place of business at 535 West 116<sup>th</sup> Street, New York, New York 10027, and who, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited:

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

- 1. Assign, transfer, and convey to Assignce our right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries, including all divisional, renewal, substitute, and continuation applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent.
- 2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.
- Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer

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all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

- 4. Warrant that we have not conveyed to others any right, title, or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that we have good right to assign the same to Assignee without encumbrance; and that we are aware of no claim to the contrary.
- 5. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

	TNEELIMONA	WHEREOF, I	have herei	into set	my hai	nd and s	eal this	day
of	<u>~/y/v</u> :	_, 2008.		JAN	h)			
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	V			M	11			
			and the same	Mich	ad D	Docen		

of _	IN TESTIMONY	WHEREOF, I have hereunto set my hand and seal this day, 2008.
	J	Ruka I Police
		Richard B. Robinson

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