PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JACKIE Y. YING	12/23/2015
NANDANAN ERATHODIYIL	02/16/2016
KARTHIKEYAN NARAYANAN	01/04/2016
ANDREW C.A. WAN	12/28/2015

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15780236

CORRESPONDENCE DATA

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Total Attachments, 5	·
DATE SIGNED:	06/26/2018
SIGNATURE:	/LESTER J. VINCENT/
NAME OF SUBMITTER:	LESTER J. VINCENT
ATTORNEY DOCKET NUMBER:	9322P107

Total Attachments: 5

PATENT REEL: 046208 FRAME: 0948

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> PATENT REEL: 046208 FRAME: 0949

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") have invented:

Chemically Defined, Synthetic Nanoparticulate Surfaces For The Propagation Of Human Embryonic And Pluripotent Stem Cells

for wh	ich a formal application for Letters Patent:				
[]	may be made on a future date;				
[]	has been executed on even date herewith;				
[]	executed on;				
[X]	was filed on 30 November 2015 and assign	gned Patent	Application	Serial	No
102015	509845Q;				

AND WHEREAS, Agency for Science, Technology and Research (A*STAR), a statutory board of the country of Singapore having a place of business at 1 Fusionopolis Way, #20-10 Connexis, Singapore 138632 (hereinafter "ASSIGNEE"), and successors, assigns, and legal representatives thereof, is desirous of acquiring an interest therein;

AND WHEREAS, a "formal application," as referred to herein, shall mean any provisional, nonprovisional, continuation, continuation in part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT) or other patent application, inventor's certificate, or like document and shall specifically include the any provisional or nonprovisional filed in respect of the invention or inventions disclosed in Technology Disclosure __IBN/Z/09344 ___dated __29/10/2015

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the aforesaid application, to the invention as described in the aforesaid Technology Disclosure, and to any formal application which may be filed based in whole or in part on the aforesaid application, in Singapore and all foreign countries, together with the right of priority under any international agreements to which Singapore currently adheres and adheres to in the future, and hereby authorizes and requests the Registrar of Patents to issue any such Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND ASSIGNOR HEREBY AGREES to transfer, upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements and formal applications based thereon, growing out of or relating to the invention; and, without further remuneration, to provide all reasonable assistance and execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve and/or acquire ASSIGNEE's full protection and title in and to the invention hereby transferred and any improvements therein,

ASSIGNOR AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuncration, to execute any and all papers desired by ASSIGNEE for the filing and granting of formal applications based on the invention or improvements therein, and the perfecting of title thereto in ASSIGNEE.

(1603333_1):KNT

PATENT REEL: 046208 FRAME: 0950

Æ	EXECUTED as of the d	ate(s) written	below by ASSIGNOR:	
Inventor's Signature		Date:	23/12/15	·
YING, Jackie Y.				
Inventor's Printed Nan	18			
Inventor's Address:	c/o Institute of Bioeng 31 Biopolis Way, The Singapore 138669			
WITNESSETH:		Date:	\$3/12/15°	***************************************
Witness's Signature				
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(1603333_1):KNI

EXECUTED as of the date(s) written below by ASSIGNOR: Well Date: 16 Feb 2016 Inventor's Signature ERATHODIYIL, Nandanan Inventor's Printed Name Inventor's Address: c/o Institute of Bioengineering and Nanotechnology 31 Biopolis Way, The Nanos #04-01 Singapore 138669 WITNESSETH: Date: Date:

(1600033 DEKNT

Witness's Printed Name

EXECUTED as of the date(s) written below by ASSIGNOR:

Derse	· ·	Date:	4-1-16		
Inventor's Signature					***********
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NARAYANAN, Karti	nikeyan.				
Inventor's Printed Na	ne				
Inventor's Address:	c/o Institute of Bioengineering and Nanotechnology			:	
*	31 Biopolis Way, Th Singapore 138669	ie Nanos #04-(11.	4-	
WITNESSETH:					
		Date:	4116		
Witness's Signature		Date.	\$. \$. \$ see.	and the state of t	·
Dana Cani					
Witness's Printed Nair	ne				

(1603333_1):KNT

EXECUTED as of the date(s) written below by ASSIGNOR:

Maria		Date:	28/12/2015	
Inventór's Signature	: (2			
WAN, Andrew C.A.				
Inventor's Printed Nar	ne		•	
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Inventor's Address:	c/o Institute of B 31 Biopolis Way Singapore 13866	tioengineering and N , The Nanos #04-01	lanotechnology	
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<u> </u>		Date:	78 12 70 15	
Witness's Signature				,
Ashlen Lim			,	
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PATENT REEL: 046208 FRAME: 0954

RECORDED: 06/26/2018