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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FLOYD E. ROMESBERG	07/03/2020
VIVIAN T. DIEN	08/11/2020
AARON W. FELDMAN	10/27/2020
REBEKAH J. KARADEEMA	06/23/2020
LINGJUN LI	10/27/2020
MICHAEL P. LEDBETTER	06/24/2020
ANNE XIAOZHOU ZHOU	06/24/2020

RECEIVING PARTY DATA

Name:	THE SCRIPPS RESEARCH INSTITUTE
Street Address:	10550 NORTH TORREY PINES ROAD
City:	LA JOLLA
State/Country:	CALIFORNIA
Postal Code:	92037

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16900154

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	36271-808.201
NAME OF SUBMITTER:	LESLIE S. MILLER
SIGNATURE:	/Leslie S. Miller/
DATE SIGNED:	11/19/2020

PATENT REEL: 054423 FRAME: 0334

Total Attachments: 8 source=36271-808-201_Assignment#page1.tif source=36271-808-201_Assignment#page2.tif source=36271-808-201_Assignment#page3.tif source=36271-808-201_Assignment#page4.tif source=36271-808-201_Assignment#page5.tif source=36271-808-201_Assignment#page6.tif source=36271-808-201_Assignment#page7.tif source=36271-808-201_Assignment#page8.tif

PATENT REEL: 054423 FRAME: 0335

	PATENT ASSIGNMENT		Docket Number 36271-808.201
The undersigned:			
Floyd E. ROMESBERG La Jolla, California (US)	2. Vivian T. DIEN San Diego, California (US)	3. Aaron W. FELDMAN San Diego, California	
5. Lingjun LI Xin Xiang (CN)	6. Michael P. LEDBETTER La Jolla, California (US)	7. Anne Xiaozhou ZHOU La Jolla, California (U	

(the "Inventor(s)"), desire to assign the entire right, title and interest in and to the Inventions and Assigned Patents (each, as defined below) to The Scripps Research Institute, a corporation incorporated under the laws of the State of California, having a place of business at 10550 North Torrey Pines Road, La Jolla, California 92037 (US), (the "Assignee"), and Assignee desires to acquire such right, title and interest, all on the terms and conditions set forth in this Patent Assignment.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) have invented certain new and useful inventions and improvements disclosed in the following patent(s) and patent application(s):

REAGENTS AND METHODS FOR REPLICATION, TRANSCRIPTION, AND TRANSLATION IN SEMI-SYNTHETIC ORGANISMS

for which application serial number 16/900,154 was filed on June 12, 2020 in the United States Patent and Trademark Office

(the "Listed Patent(s)"). As used herein: "Assigned Patents" means (a) the Listed Patent(s), (b) all Patents that share priority with or claim priority to or from the Listed Patent(s), including each and every Patent that is a divisional, substitution, continuation, continuation-in-part, non-provisional, or national phase application of any of the Listed Patent(s), (c) all Patents applied for on an invention disclosed within the Patents included in foregoing subclauses (a)-(b), (d) each and every Patent granting, issuing or reissuing from any of the foregoing under subclauses (a)-(c), (e) each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing under subclauses (a)-(d), and (f) each and every Patent filed outside the United States and corresponding to any of the foregoing under subclauses (a)-(e). "Patents" means (i) patents, certifications of inventions, inventor's certificates and other forms of protection granted on any invention in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise, and (ii) applications therefor (whether provisional, converted provisional, utility, design, plant, utility model, non-provisional or otherwise).

- 2. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to the Assigned Patents, including the right to claim priority to and from said Assigned Patents; (b) in and to the inventions disclosed in the Assigned Patents, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (the "Inventions") and (c) in and to all claims for past, present and future infringement of the Assigned Patents, including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Assigned Patents.
- 3. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for filing, prosecuting or maintaining any of the Assigned Patents; (c) for filing, prosecuting or maintaining applications for reissuance of any said Assigned Patents; (d) for interference or other priority proceedings involving said Assigned Patents or Inventions; and (e) for legal proceedings involving said Inventions or Assigned Patents, including without limitation reissues and reexaminations, IPRs, opposition and other post-grant proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.
- 4. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.
- 5. Said Inventor(s) hereby warrant, represent and covenant that said Inventor(s) have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- 6. Said Inventor(s) hereby request that any Assigned Patents issuing or granting in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued or granted in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.
- 7. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:

	PATENT ASSIGNMENT	Docket Number 36271-808.201
Date: 3) W 1010	Flod E. ROMESBERG	
Date:	Vivian T. DIEN	
Date:	Aaron W. FELDMAN	
Date:	Rebekah J. KARADEEMA	
Date:	Lingjun LI	
Date:	Michael P. LEDBETTER	
Date:	Anne Xiaozhou ZHOU	۸
RECEIVED AND AGREED TO BY ASSIGNEE: THE SCRIPPS RESEARCH INSTITUTE		
Date: October 27, 2020	Signature: Name: Thomas Fitting, Esq., Ph.D. Title: Chief Patent Counsel	

	PATENT ASSIGNMENT		Docket Number 36271-808.201
Date:	Floyd E. ROMESBERG		
Date: 8 11 20	Viviant, DIEN		
Date:	Aaron W. FELDMAN		
Date:	Rebekah J. KARADEEMA		
Date:	Lingjun LI		
Date:	Michael P. LEDBETTER		
Date:	Anne Xiaozhou ZHOU		
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October 27, 2020	Sagrander Sagrander (1880) Table (1880)		

	PATENT ASSIGNMENT	Docket Number 36271-808.201
Date:	Floyd E. ROMESBERG	
Date:	Vivian T. DIEN	
Date:	Aaron W. FELDMAN	
Date: 06/23/2020	Rebekah J. KARADEEMA	
Date:	Lingjun LI	
Date:	Michael P. LEDBETTER	
Date:	Anne Xiaozhou ZHOU	
RECEIVED AND AGREED TO BY ASSIGNEE: THE SCRIPPS RESEARCH INSTITUTE		
Date: October 27, 2020	Signature: Name: Thomas Fitting, Esq., Ph.D. Title: Chief Patent Counsel	

	PATENT ASSIGNMENT	Docket Number 3/27 (-8/98-20)
Date:	Flord E BOMESBERG	
Date:	Victor T DRN	
Size	Aaroe W. FELDWAN	
Date:	Rebekak J. K.A.R.A.DEEDIA	
October 27,	2020)	
Date:	Michael P. LEDBETTER	
Date	Atter Xasphen ZHCU	
RECEIVED AND ACRE THE SCRIPPS RESEAR	ED TO BY ASSIGNED RCH INSTITUTE	
Date October 27, 20	20 Signature Name Thomas Filling, Esq. Ph.D. Title: Chief Pateni Counsel	

	PATENT ASSIGNMENT	Docket Number 36271-808.201
Date:	Floyd E ROMESBERG	
Date:	Vivian T DIEN	
Date	Asson W FELDMAN	
Date:	Reteksh J, KARADEEMA	
Date:	Lingson Li	
Date 2020 - 00 - 24	///// Comment of the	
Date	Anne Xiasahou ZHOU	
RECEIVED AND AGREED TO BY ASSIGNEE: THE SCRIPPS RESEARCH INSTITUTE		
October 27, 202	Signature/ Signature: Thomas Fitting, Esq., Ph.D. Title: Chief Patent Counsel	

RECORDED: 11/19/2020

	PATENT ASSIGNMENT	Docket Number 36271-808.201
Date:	Floyd E. ROMESBERG	
Date:	Vivian T. DIEN	
Date:	Aaron W. FELDMAN	
Date:	Rebekah J. KARADEEMA	
Date:	Lingjun LI	
Date:	Michael P. LEDBETTER	
Date: 06 2020	Anne Xiaozhou ZHOU	
RECEIVED AND AGREED TO BY ASSIGNEE: THE SCRIPPS RESEARCH INSTITUTE		
Date: October 27, 2020 Signature: Name: Thomas Fitting, Esq., Ph.D. Title: Chief Patent Counsel		