PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUE SINACORE	01/29/2016
WILLIAM YANG	12/10/2015
YAO-MING HUANG	12/10/2015
THOMAS RYLL	12/22/2015
JIUYI LU	01/09/2016

RECEIVING PARTY DATA

Name:	BIOGEN MA INC.
Street Address:	225 BINNEY STREET
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15128732

CORRESPONDENCE DATA

Fax Number: (617)646-8646

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 617-646-8000

Email: patents_JosephB@wolfgreenfield.com

Correspondent Name: JOSEPH M. BOWLER
Address Line 1: 600 ATLANTIC AVENUE

Address Line 2: WOLF GREENFIELD & SACKS, P.C. Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	B1152.70090US01
NAME OF SUBMITTER:	JOSEPH M. BOWLER
SIGNATURE:	/Joseph M. Bowler/
DATE SIGNED:	07/22/2020
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Total Attachments: 7

PATENT REEL: 053280 FRAME: 0029

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PATENT REEL: 053280 FRAME: 0030

Attorney Docket No: 2159.401PC01/EKS/P-K

ASSIGNMENT

For valuable consideration, I, Mile	Sindere of
andores MA	, the legal representative of the estate of
Marty SINACORE, hereby assign to Biogen	MA Inc., a corporation of Massachusetts having a
place of business at:	

250 Binney Street Cambridge, Massachusetts 02142,

and its successors and assigns (collectively hereinafter called "the Assignee"), Marty SINACORE's entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent entitled Methods for Overcoming Glutamine Deprivation During Mammalian Cell Culture, filed March 24, 2015, and assigned International Patent Application Number PCT/US2015/022259, this assignment including said application, any and all United States and foreign utility patents and patent applications, including continuation, continuation-in-part, divisional, reissue, and reexamination applications, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and authorize the Assignee to apply in all countries in the name of Marty SINACORE or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for Marty SINACORE and his respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Assignment Page 1 of 2

DATE: 1-29-10	Lue Linacore
1	egal Representative of the Estate of
ľ	Marty SINACORE
STATE OF OCCOUNTY OF NO HOMEN	
Before me this 391 day of 3	enucy, 2016, personally
	known to me to be the person whose
name is subscribed to the foregoing Assignment	ent, proved to me through satisfactory evidence of
identification in the form of MA DL	业S 34749SQL, and acknowledged
that he/she executed the same as his/her free a	ct and deed for the purposes therein contained.
	Fat -Mai
শ্ৰুৱাৰ প্ৰত্যা	ary Public —
My	Commission Expires: OCT. 14, 2019
[Notary's Seal Here]	*
OFFICIAL STAMP BRIAN D PARTANEN-MAINE NOTARY PUBLIC-OREGON COMMISSION NO. 943736 MY COMMISSION EXPIRES OCTOBER 14, 2019	

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Attorney Docket No: 2159,401PC01/EKS/P-K

ASSIGNMENT

For valuable consideration, we, <u>William YANG</u>, of <u>Cary, NC</u>; <u>Yao-Ming HUANG</u>, of <u>Cary, NC</u>, <u>Thomas RYLL</u>, of <u>Lexington, MA</u>, and <u>Jiuyi LU</u>, of <u>Ipswich, MA</u>, hereby assign to Biogen <u>MA Inc.</u>, a corporation of <u>Massachusetts</u> having a place of business at:

250 Binney Street Cambridge, Massachusetts 02142,

and its successors and assigns (collectively hereinafter called "the Assignee"), our entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent entitled Methods for Overcoming Glutamine Deprivation During Mammalian Cell Culture, filed March 24, 2015, and assigned International Patent Application Number PCT/US2015/022259, this assignment including said application, any and all United States and foreign utility patents and patent applications, including continuation, continuation-in-part, divisional, reissue, and reexamination applications, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Assignment Page 1 of 5

DATE: 16 Dec 3015	William YANG	
STATE OF North Carolina) SS. COUNTY OF Wake		
Before me this day of appeared William YANG known to me to be foregoing Assignment, proved to me through of NOTICE, are free act and deed for the purposes therein continued to the purpose therein to the purpose therein to the purpose t	e the person whose name is so a satisfactory evidence of ide and acknowledged that he exe	subscribed to the entification in the form
•	Rustine Emototary Public (y Commission Expires: 14	

DATE: 10 Dec. 2015	Yao-Ming HUANG
STATE OF North Carolina) COUNTY OF WAKE)	
appeared Yao-Ming HUANG known to me to foregoing Assignment, proved to me through of Driver Livense, and free act and deed for the purposes therein continued to the purpose the pur	
	tary Public y Commission Expires: 14 NOV 2017

DATE: Dec. 22, 2015

Thomas RY

STATE OF Massachusets) ss.

Before me this 22nd day of December, 2015, personally appeared Thomas RYLL known to me to be the person whose name is subscribed to the foregoing Assignment, proved to me through satisfactory evidence of identification in the form of Massachusetts Drivers License, and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

are]

My Commission Expires:

JEANNE S. SCHMITTER
Notary Public
COMMONWEALTH OF MASSAGHUSETTS
My Commission Expires
February 11, 2016

DATE: 09JANIB Dimi h
Jiuyi L⊎_/
STATE OF MUSSACHUSCHS)
COUNTY OF SCX SS.
Before me this 9th day of 1000000, 2016, personally
appeared <u>Jiuyi LU</u> known to me to be the person whose name is subscribed to the foregoing
Assignment, proved to me through satisfactory evidence of identification in the form of
M DNUCS WINGC, and acknowledged that he executed the same as his free
act and deed for the purposes therein contained.
Strawally Brannow
Notary-Public
My Commission Expires:

[Notary's Seal Here]

RECORDED: 07/22/2020

ELIZABETH BRENNAN Notary Public Massachussita

Assignment Page 5 of 5

PATENT REEL: 053280 FRAME: 0037