

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6196455

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MARTIS WILLIAM COWLES	01/15/2020
ANDREA L. JOHNSTONE	01/15/2020
MICHAEL-CHRISTOPHER KEOGH	02/06/2020
ZU-WEN SUN	01/15/2020
NATHAN W. HALL	01/15/2020
MATTHEW R. MARUNDE	01/15/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EPICYIPHER, INC.
<b>Street Address:</b>	6 DAVIS DRIVE
<b>Internal Address:</b>	SUITE 755
<b>City:</b>	DURHAM
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27709
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16678686
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(919)854-1401
<i>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.</i>	
<b>Phone:</b>	9198541400
<b>Email:</b>	bmedlin@myersbigel.com
<b>Correspondent Name:</b>	MYERS BIGEL, P.A.
<b>Address Line 1:</b>	P.O. BOX 37428
<b>Address Line 4:</b>	RALEIGH, NORTH CAROLINA 27627
<b>ATTORNEY DOCKET NUMBER:</b>	1426-13CT
<b>NAME OF SUBMITTER:</b>	BETTY-LOU MEDLIN
<b>SIGNATURE:</b>	/betty-loumedlin/
<b>DATE SIGNED:</b>	07/13/2020

**Total Attachments: 10**

source=1426-13CT\_Assn#page1.tif  
source=1426-13CT\_Assn#page2.tif  
source=1426-13CT\_Assn#page3.tif  
source=1426-13CT\_Assn#page4.tif  
source=1426-13CT\_Assn#page5.tif  
source=1426-13CT\_Assn#page6.tif  
source=1426-13CT\_Assn#page7.tif  
source=1426-13CT\_Assn#page8.tif  
source=1426-13CT\_Assn#page9.tif  
source=1426-13CT\_Assn#page10.tif

**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **Martis William Cowles**, a citizen of the United States of America, residing at 108 Cynthia Drive, Chapel Hill, North Carolina 27514; **Matthew F. Whelihan**, a citizen of the United States of America, residing at 5808 Walnut Cove Drive, Durham, North Carolina 27713; **Andrea L. Johnstone**, a citizen of the United States of America, residing at 1937 Kateland Court, Apex, North Carolina 27502; **Michael-Christopher Keogh**, a citizen of the United States of America, residing at 22 Water Street, Apt. 1224, Cambridge, Massachusetts 02141; **Zu-Wen Sun**, a citizen of the United States of America, residing at 1145 Holly Tree Farms Road, Brentwood, Tennessee 37027; **Nathan W. Hall**, a citizen of the United States of America, residing at 128 Timber Creek Path, Chapel Hill, North Carolina 27517; and **Matthew R. Marunde**, a citizen of the United States of America, residing at 200 Crest Street A7, Carrboro, North Carolina 27510; and

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in **QUANTIFICATION OF NUCLEOSOME MODIFICATIONS USING CHEMICALLY-DEFINED RECOMBINANT NUCLEOSOMES**, for which U.S. Provisional Application No. 62/637,066 was filed on March 1, 2018 in the United States Patent and Trademark Office and PCT International Application No. PCT/US2019/020283 was filed on May 18, 2018, and for which U.S. Patent Application No. 16/678,686 was filed on November 8, 2019 in the United States Patent and Trademark Office; and

WHEREAS, **EpiCypher, Inc.**, a Delaware corporation, having its principal place of business at 6 Davis Drive, Suite 755, Durham, North Carolina 27709, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said

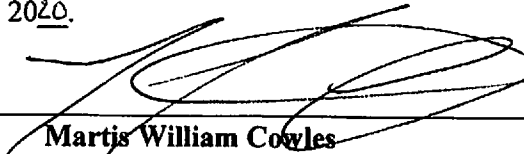
assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

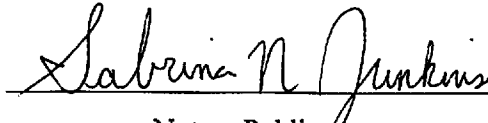
We further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 15  
day of January, 2020.

  
\_\_\_\_\_  
**Martis William Cowles** (SEAL)

STATE OF NC )  
 ) ss:  
COUNTY OF Wake )

Before me personally appeared **Martis William Cowles**, to me known to be the  
person described in and who executed the foregoing instrument, and he acknowledged to  
me that he executed the same for the purposes therein stated, this 15 day of  
January, 2020.

  
\_\_\_\_\_  
Notary Public

  
SEAL

My Commission Expires: January 26, 2021

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this \_\_\_\_\_  
day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
**Matthew F. Whelihan** (SEAL)

STATE OF \_\_\_\_\_ )  
 ) ss:  
COUNTY OF \_\_\_\_\_ )


Before me personally appeared **Matthew F. Whelihan**, to me known to be the  
person described in and who executed the foregoing instrument, and he acknowledged to  
me that he executed the same for the purposes therein stated, this \_\_\_\_\_ day of  
\_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

SEAL

My Commission Expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 15  
day of January, 2020.

 (SEAL)  
Andrea L. Johnstone

STATE OF NC )  
 ) ss:  
COUNTY OF Wake )

Before me personally appeared **Andrea L. Johnstone**, to me known to be the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 15 day of January, 2020.

Sabrina N Jenkins  
Notary Public

SEAL

My Commission Expires: January 26, 2021

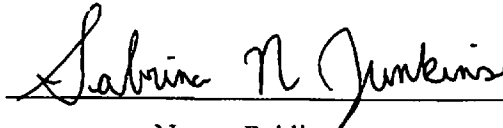
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 6  
day of February, 2020.

  
\_\_\_\_\_  
**Michael-Christopher Keogh**

(SEAL)

STATE OF NC )  
 ) ss:  
COUNTY OF Wake )

Before me personally appeared **Michael-Christopher Keogh**, to me known to be  
the person described in and who executed the foregoing instrument, and he acknowledged  
to me that he executed the same for the purposes therein stated, this 6 day of  
February, 2020

  
\_\_\_\_\_  
Notary Public

SEAL

My Commission Expires: January 26, 2021



IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 15  
day of January, 2020.

Zu-Wen Sun (SEAL)  
Zu-Wen Sun

STATE OF NC )  
 ) ss:  
COUNTY OF Wake )

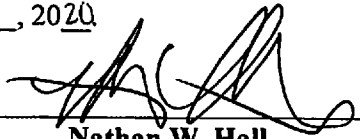
Before me personally appeared **Zu-Wen Sun**, to me known to be the person  
described in and who executed the foregoing instrument, and he acknowledged to me that  
he executed the same for the purposes therein stated, this 15 day of  
January, 2020.

Sabrina N Jenkins  
Notary Public

SEAL

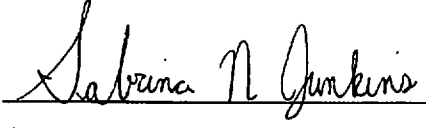
My Commission Expires: January 26, 2021

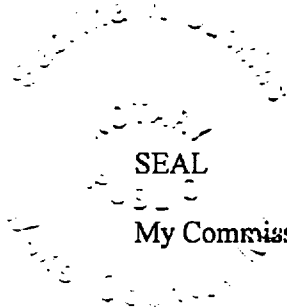
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 15  
day of January, 2020

  
\_\_\_\_\_  
Nathan W. Hall (SEAL)

STATE OF NC )  
 ) ss:  
COUNTY OF Wake )

Before me personally appeared **Nathan W. Hall**, to me known to be the person  
described in and who executed the foregoing instrument, and he acknowledged to me that  
he executed the same for the purposes therein stated, this 15 day of  
January, 2020.

  
\_\_\_\_\_  
Notary Public



My Commission Expires: January 26, 2021

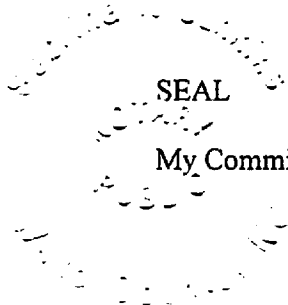
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 15  
day of January, 2020

Matthew R. Marunde (SEAL)  
Matthew R. Marunde

STATE OF NC)  
) ss:  
COUNTY OF Wake)

Before me personally appeared **Matthew R. Marunde**, to me known to be the  
person described in and who executed the foregoing instrument, and he acknowledged to  
me that he executed the same for the purposes therein stated, this 15 day of  
January, 2020.

Sabrina N. Jenkins  
Notary Public



My Commission Expires: January 26, 2021

IN WITNESS WHEREOF, EpiCypher, Inc., by signature below on this 15 day of January, 2020, hereby acknowledges and accepts receipt of this Assignment. The undersigned warrants and represents that he/she has the authority to sign this Assignment on behalf of the Assignee.

By: James R Bone (SEAL)

Printed Name: James R Bone

Title: President

STATE OF NC )

) ss:

COUNTY OF Wake )

Before me personally appeared the person described in and who executed the foregoing instrument, and he/she acknowledged to me that he/she executed the same for the purposes therein stated, this 15 day of January, 2020

Sabrina N Jenkins  
Notary Public

SEAL

My Commission Expires: January 26, 2021