

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Simone Budow</td> <td>06/05/2013</td> </tr> <tr> <td>Ping Ding</td> <td>06/05/2013</td> </tr> <tr> <td>Frank Seela</td> <td>06/05/2013</td> </tr> </tbody> </table>		Name	Execution Date	Simone Budow	06/05/2013	Ping Ding	06/05/2013	Frank Seela	06/05/2013		
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Simone Budow	06/05/2013										
Ping Ding	06/05/2013										
Frank Seela	06/05/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>ChemBiotech GmbH</td> </tr> <tr> <td>Street Address:</td> <td>Heisenbergstrasse 11</td> </tr> <tr> <td>City:</td> <td>Muenster</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>48149</td> </tr> </table>		Name:	ChemBiotech GmbH	Street Address:	Heisenbergstrasse 11	City:	Muenster	State/Country:	GERMANY	Postal Code:	48149
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13866412</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13866412						
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CORRESPONDENCE DATA											
Fax Number: 3175212883 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 317-521-2817 Email: jackie.pike@roche.com Correspondent Name: Duane C. Marks Address Line 1: 9115 Hague Road Address Line 4: Indianapolis, INDIANA 46250											
ATTORNEY DOCKET NUMBER:	27094 US-PD										
NAME OF SUBMITTER:	Duane C. Marks										
Signature:	/Duane C. Marks/										
Date:	07/10/2013										

CH \$40.00 13866412

Total Attachments: 4

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<b>Assignment of Rights, Title and Interest in Invention</b> (Multiple inventors; single assignee)	Docket No. 27094 US
-------------------------------------------------------------------------------------------------------	------------------------

*This is an Assignment of the following rights, title and interest: (check all that apply):*

☒ *United States of America rights, title and interest in the invention*  
☐ *Foreign rights, title and interest in the invention*  
☒ *United States Patent Application Serial No. 13/866,412*  
*Date of Execution: \_\_\_\_\_ Date of Filing: April 19, 2013*  
☐ *United States Provisional Patent Application Serial No. \_\_\_\_\_*  
☐ *United States Patent No(s). \_\_\_\_\_*  
☐ *International (PCT) Patent Application Serial No. \_\_\_\_\_*  
☐ *Other (specify) \_\_\_\_\_*

*Title of the Invention*

CONJUGATE BETWEEN A THIOPHILIC SOLID PHASE AND AN OLIGONUCLEOTIDE COMPRISING A THIOOXONUCLEOTIDE

*Inventors (assignors)*

Name	Address
Simone Budow	Sonnenwinkel 34, 49545 Tecklenburg, Germany
Ping Ding	Heekweg 14, F 609, 48161 Muenster, Germany
Frank Seela	Gutenbergstrasse 44, 49076 Osnabrueck, Germany

*Assignee*

Name	Address
ChemBiotech GmbH	Heisenbergstrasse 11 48149 Muenster Germany

Assignment of Rights, Title and Interest in Invention  
(Multiple inventors; single assignee)

Docket No.  
27094 US

Whereas we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And whereas we desire to assign our above-identified rights; title and interest in the Invention to the above-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventor's Signatures

IN WITNESS WHEREOF, I have executed this assignment at Münster, Germany  
this \_\_\_\_\_ day of \_\_\_\_\_, 2013. (city and state or country if outside USA)

Outside the USA:  
Witnesses are required when  
acknowledgement before a  
Notary Public is not  
feasible.

F. Seela  
Witness  
Seela  
Witness

S. Budow  
Inventor (Signature)  
Simone Budow  
Inventor (Printed Name)

IN WITNESS WHEREOF, I have executed this assignment at Chengdu, People's Republic of China  
(city and state or country if outside USA)  
this fifth day of June, 2013.

Outside the USA:

Witnesses are required when  
acknowledgement before a  
Notary Public is not  
feasible.

He Weiwei

Witness

[Signature]  
Inventor (Signature)

He Weiwei

Witness

Ping Ding

Inventor (Printed Name)

IN WITNESS WHEREOF, I have executed this assignment at \_\_\_\_\_  
(city and state or country if outside USA)  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Outside the USA:

Witnesses are required when  
acknowledgement before a  
Notary Public is not  
feasible.

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Inventor (Signature)

\_\_\_\_\_  
Witness

Frank Seela

Inventor (Printed Name)

IN WITNESS WHEREOF, I have executed this assignment at X  
this X day of X, 2013. (city and state or country if outside USA)

Outside the USA:  
Witnesses are required when  
acknowledgement before a  
Notary Public is not  
feasible.

Witness

X  
Inventor (Signature)

Witness

Ping Ding  
Inventor (Printed Name)

IN WITNESS WHEREOF, I have executed this assignment at X Münster, Germany  
this X day of X, 2013. (city and state or country if outside USA)

Outside the USA:  
Witnesses are required when  
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Notary Public is not  
feasible.

S. J. J.  
Witness

X I. Seela  
Inventor (Signature)

W. J. J.  
Witness

Frank Seela  
Inventor (Printed Name)