

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Xiaodong Wang</td> <td>10/26/2012</td> </tr> <tr> <td>Jing Liu</td> <td>10/26/2012</td> </tr> <tr> <td>Chao Yang</td> <td>10/31/2012</td> </tr> <tr> <td>Weihe Zhang</td> <td>10/26/2012</td> </tr> <tr> <td>Stephen Frye</td> <td>11/06/2012</td> </tr> <tr> <td>Dmitri Kireev</td> <td>11/06/2012</td> </tr> </tbody> </table>		Name	Execution Date	Xiaodong Wang	10/26/2012	Jing Liu	10/26/2012	Chao Yang	10/31/2012	Weihe Zhang	10/26/2012	Stephen Frye	11/06/2012	Dmitri Kireev	11/06/2012
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>The University of North Carolina at Chapel Hill</td> </tr> <tr> <td>Street Address:</td> <td>308 Bynum Hall</td> </tr> <tr> <td>Internal Address:</td> <td>Campus Box 4105</td> </tr> <tr> <td>City:</td> <td>Chapel Hill</td> </tr> <tr> <td>State/Country:</td> <td>NORTH CAROLINA</td> </tr> <tr> <td>Postal Code:</td> <td>27599</td> </tr> </table>		Name:	The University of North Carolina at Chapel Hill	Street Address:	308 Bynum Hall	Internal Address:	Campus Box 4105	City:	Chapel Hill	State/Country:	NORTH CAROLINA	Postal Code:	27599		
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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>13641729</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13641729										
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Application Number:	13641729														
CORRESPONDENCE DATA															
Fax Number:	9198541401														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	9158541400														
Email:	sabraham@myersbigel.com														
Correspondent Name:	Myers Bigel Sibley & Sajovec, P.A.														
Address Line 1:	PO Box 37428														
Address Line 4:	Raleigh, NORTH CAROLINA 27627														
ATTORNEY DOCKET NUMBER:	5470-549														

CH \$40.00 13641729

NAME OF SUBMITTER:

Sarah Abraham

Total Attachments: 16

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ASSIGNMENT

THIS ASSIGNMENT, made by us, Xiaodong Wang, a citizen of China, residing at 116 Woodshire Lane, Chapel Hill, North Carolina 27514; Jing Liu, a citizen of China, residing at 101 NC 54, Apt. H6, Carrboro, North Carolina 27510; Chao Yang, a citizen of China, residing at 186 Sapphire Lane, Franklin Park, NJ, 08823; Weihe Zhang, a citizen of China, residing at 2525 Booker Creek Road, Apt. 3B, Chapel Hill, North Carolina 27514; Stephen Frye, a citizen of the United States of America, residing at 102 Flagstone Court, Chapel Hill, North Carolina 27517; and Dmitri Kireev, a citizen of France, residing at 110 North Fields Circle, Chapel Hill, North Carolina 27516;

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in PYRAZOLOPYRIMIDINE COMPOUNDS FOR THE TREATMENT OF CANCER for which International Application No. PCT/US2011/036215 was filed on May 12, 2011, and U.S. Application No. 13/641,729 was filed on in the United States Patent and Trademark Office; and

WHEREAS, The University of North Carolina at Chapel Hill, a constituent institution of The University of North Carolina and an educational institution chartered under the laws of the State of North Carolina having a principal place of business at 308 Bynum Hall, Campus Box 4105, Chapel Hill, North Carolina, hereinafter referred to as assignee, is desirous of acquiring my entire right, title and interest in and to said invention as described in said application(s), 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 said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application(s), 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 applications 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 _____ day of _____, 20__.

(SEAL)

XIAODONG WANG

STATE OF North Carolina)

) ss:

COUNTY OF _____)

Before me personally appeared 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 _____ day of _____, 20__.

Notary Public

SEAL

My Commission Expires: _____

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

JING LIU (SEAL)

STATE OF North Carolina)
COUNTY OF _____) ss:

Before me personally appeared 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 _____ day of _____, 20____.

Notary Public

SEAL

My Commission Expires: _____

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 31 day of October, 20 12.

Chao Yang (SEAL)
CHAO YANG

STATE OF ~~North Carolina~~ New Jersey
COUNTY OF Middlesex) ss:

Before me personally appeared 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 31st day of October, 20 12

Fozia Rahman
Notary Public

SEAL,

My Commission Expires: _____



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

WEIHE ZHANG (SEAL)

STATE OF North Carolina)
COUNTY OF _____) ss:

Before me personally appeared 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 _____ day of _____, 20__.

Notary Public

SEAL

My Commission Expires: _____

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

STEPHEN FRYE (SEAL)

STATE OF North Carolina)
COUNTY OF _____) ss:

Before me personally appeared 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 _____ day of _____, 20__.

Notary Public

SEAL

My Commission Expires: _____

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

DMITRI KIREEV (SEAL)

STATE OF North Carolina)
COUNTY OF _____) ss:

Before me personally appeared 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 _____ day of _____, 20__.

Notary Public

SEAL

My Commission Expires: _____

1243104.v1

ASSIGNMENT

THIS ASSIGNMENT, made by us, Xiaodong Wang, a citizen of ^{the United States of America} ~~China~~, residing at 116 ^{XW} 10/26/2012
Woodshire Lane, Chapel Hill, North Carolina 27514; Jing Liu, a citizen of China, residing at
101 NC 54, Apt. H6, Carrboro, North Carolina 27510; Chao Yang, a citizen of China, residing
at 100 Colchester Drive, Chapel Hill, North Carolina 27517; Weihe Zhang, a citizen of China,
residing at 2525 Booker Creek Road, Apt. 3B, Chapel Hill, North Carolina 27514; Stephen
Frye, a citizen of the United States of America, residing at 102 Flagstone Court, Chapel Hill,
North Carolina 27517; and Dmitri Kireev, a citizen of France, residing at ~~110 North Fields~~ ^{103 Round Hill Rd.} ^{DK} 10/25/2012
Circle, Chapel Hill, North Carolina ~~27516~~ ²⁷⁵¹⁴ ^{DK} 10/25/2012

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in
PYRAZOLOPYRIMIDINE COMPOUNDS FOR THE TREATMENT OF CANCER for which
International Application No. PCT/US2011/036215 was filed on May 12, 2011, and U.S.
Application No. 13/641,729 was filed on in the United States Patent and Trademark Office; and

WHEREAS, The University of North Carolina at Chapel Hill, a constituent institution
of The University of North Carolina and an educational institution chartered under the laws of
the State of North Carolina having a principal place of business at 308 Bynum Hall, Campus Box
4105, Chapel Hill, North Carolina, hereinafter referred to as assignee, is desirous of acquiring my
entire right, title and interest in and to said invention as described in said application(s), 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 said assignee, its successors and
assigns, the entire right, title, and interest in and to the said invention and application(s), 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 applications 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 26 day of
Oct., 2012.

Xiaodong Wang (SEAL)
XIAODONG WANG

STATE OF North Carolina
COUNTY OF Orange ss:

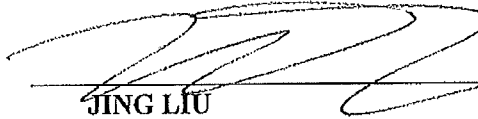
Before me personally appeared the person described in and who executed the foregoing
instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein
stated, this 26th day of October, 2012.

Steven M. Royster
Notary Public



My Commission Expires: November 19, 2016

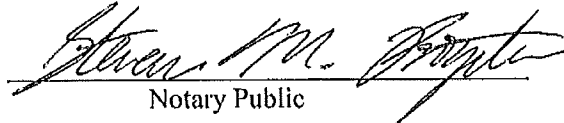
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 26 day of
10, 2012.

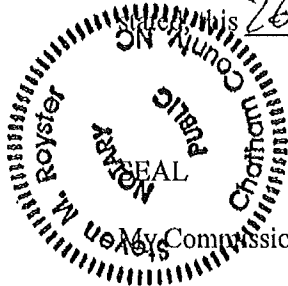

JING LIU (SEAL)

STATE OF North Carolina
COUNTY OF Orange ss:

Before me personally appeared 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

dated this 26th day of October, 2012.


Notary Public



My Commission Expires: November 19, 2016

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

(SEAL)

CHAO YANG

STATE OF North Carolina)

ss:

COUNTY OF _____)

Before me personally appeared 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 _____ day of _____, 20____.

Notary Public

SEAL

My Commission Expires: _____

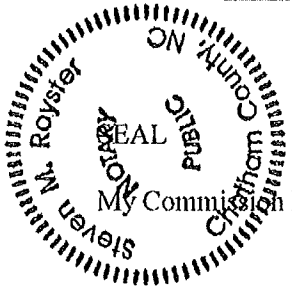
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 26 day of Oct, 2012.

Weihe Zhang (SEAL)
WEIHE ZHANG

STATE OF North Carolina
COUNTY OF Orange) ss:

Before me personally appeared 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 26th day of October, 2012.

Steven M. Royster
Notary Public



My Commission Expires: November 19, 2016

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 6 day of
Nov., 2012.

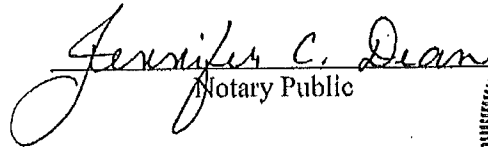
 (SEAL)
STEPHEN FRYE

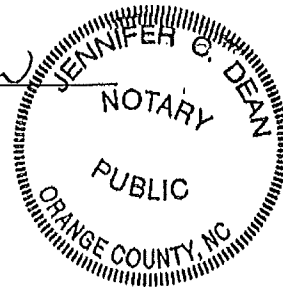
STATE OF North Carolina)
COUNTY OF Orange) ss:

Before me personally appeared 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 6th day of November, 2012


SEAL

My Commission Expires: May 16, 2017


Notary Public



IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 6th day of
November, 2012



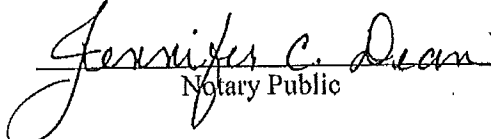
DMITRI KIREEV (SEAL)

STATE OF North Carolina)
COUNTY OF Orange) ss:

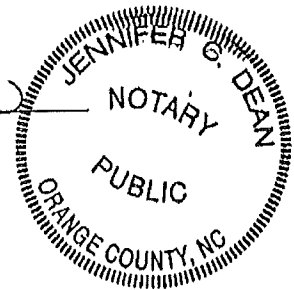
Before me personally appeared the person described in and who executed the foregoing
instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein
stated, this 6th day of November, 2012

SEAL

My Commission Expires: May 16, 2017



Notary Public



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