

PATENT

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PATENTS ONLY

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05/04/98

to the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

Name of conveying party(ies):

Christin Carter-Su  
Liang-you Rui  
David S. Karow

Additional name(s) of conveying party(ies) attached? No

2. Name and address of receiving party(ies):

The Regents of the University of Michigan  
3003 South State Street  
Ann Arbor, Michigan 48109-1280

Additional name(s) & address(es) attached? No

3. Nature of conveyance:

Assignment

Execution Date: 04/10/98; 04/21/98

4. Title of Invention: **Compositions and Methods for Identifying Signaling Pathway Agonists and Antagonists**

Application number(s) or patent number(s):

A. Patent Application No.(s):

08/980,080

B. Patent No.(s):

Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:

Peter G. Carroll  
MEDLEN & CARROLL, LLP  
220 Montgomery Street, Suite 2200  
Baltimore, Maryland 21201-4401

6. Total number of applications and patents involved: 1

7. Total fee(s):

Check(s) in the amount of \$105.00 enclosed.

8. Deposit Account Authorization:

The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

DO NOT USE THIS SPACE

9. Statement and Signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: April 30, 1998

Signature:

Name: Peter G. Carroll

Reg. No.: 32,837

Total number of pages including cover sheet, attachments, and document: 5

PATENT

REEL: 9212 FRAME: 0873

05/06/1998 6DUCKETT 10000042-0090000

02 FC:581

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**ASSIGNMENT**

WHEREAS, WE, Christin Carter-Su, Liang-you Rui and David S. Karow, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **Compositions and Methods for Identifying Signaling Pathway Agonists and Antagonists**

Filing Date: 11/26/97 Serial No.: 08/980,080

WHEREAS, The Regents of the University of Michigan, a Michigan corporation, 3003 South State Street, Ann Arbor, Michigan 48109-1280, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to ASSIGNOR by ASSIGNEE and other good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's names to this assignment on the date indicated below.

Christin Carter-Su  
Christin Carter-Su

STATE OF MICHIGAN )  
COUNTY OF Washtenaw ) ss.

On this 10th day of April, in the year of 1998, before me, the undersigned notary public, personally appeared the above-named ASSIGNOR, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same.

Gisela M. Heun  
NOTARY PUBLIC

SEAL

GISELA M. HEUN  
Notary Public, Washtenaw County, MI  
My Commission Expires Aug. 4, 2001  
PATENT  
REEL: 9212 FRAME: 0874

**ASSIGNMENT**

WHEREAS, WE, Christin Carter-Su, Liang-you Rui and David S. Karow, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **Compositions and Methods for Identifying Signaling Pathway Agonists and Antagonists**

Filing Date: 11/26/97 Serial No.: 08/980,080

WHEREAS, The Regents of the University of Michigan, a Michigan corporation, 3003 South State Street, Ann Arbor, Michigan 48109-1280, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to ASSIGNOR by ASSIGNEE and other good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's names to this assignment on the date indicated below.

Liangyou Rui  
Liang-you Rui

STATE OF MICHIGAN )  
COUNTY OF Washtenaw ) ss.

On this 10th day of April, in the year of 1998, before me, the undersigned notary public, personally appeared the above-named ASSIGNOR, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same.

Gisela M. Heun  
NOTARY PUBLIC

SEAL

GISELA M. HEUN  
Notary Public, Washtenaw County, MI  
My Commission Expires Aug. 4, 2001

