

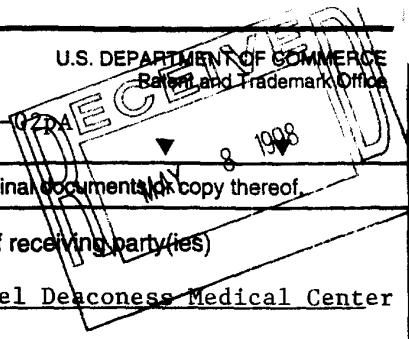


Tab settings     5/8/98

To the Honorable Commissioner of Patents

100717547

Send original documents, not copy thereof.



1. Name of conveying party(ies):  
a) Michael Yaffe  
b) Kun Ping Lu & Lewis C. Cantley

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

2. Name and address of receiving party(ies)  
Name: Beth Israel Deaconess Medical Center

Internal Address: \_\_\_\_\_

Street Address: 330 Brookline Avenue

City: Boston State: MA ZIP: 02215

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

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: a) 4/20/98 b) 4/27/98

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

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
08/988,842

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Doreen M. Hogle, Esq.

Internal Address: Hamilton, Brook,  
Smith & Reynolds, P.C.

Street Address: Two Militia Drive

City: Lexington State: MA ZIP: 02173

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

08-0380

(Attach duplicate copy of this page if paying by deposit account)

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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.

Doreen M. Hogle  
Name of Person Signing

Doreen M. Hogle  
Signature

May 5, 1998  
Date

Total number of pages including cover sheet, attachments, and document: 4

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Joint

ASSIGNMENT

WHEREAS, we, Kun Ping Lu, Lewis Cantley and Michael Yaffe, have, together with co-inventor Gunter Fischer, (hereinafter "the Assignors"), invented a certain new and useful improvement in Inhibitors of Phosphoserine and Phosphothreonine-Proline-Specific Isomerases described in an application for Letters Patent of the United States, Serial No. 08/988,842, filed December 11, 1997.

WHEREAS, Beth Israel Deaconess Medical Center (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 330 Brookline Avenue, Boston, Massachusetts 02215 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of our entire right, title and interest therein.

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution

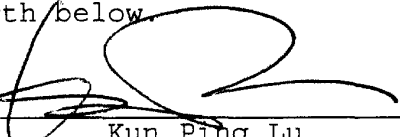
PATENT

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of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved.

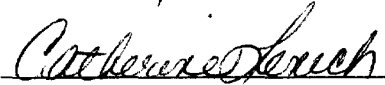
AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor:   
Kun Ping Lu

State/Commonwealth  
of Massachusetts  
County of Suffolk

Then personally appeared before me the above-named Kun Ping Lu and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 27<sup>th</sup> day of April, 1998.

 Notary Public  
\_\_\_\_\_  
(print name)  
My Commission expires \_\_\_ / \_\_\_ / \_\_\_

(SEAL)

CATHERINE LENICH  
Notary Public  
My Commission Expires July 30, 2004

Inventor: *Lewis C. Cantley*  
Lewis C. Cantley

State/Commonwealth  
of Massachusetts  
County of Suffolk

Then personally appeared before me the above-named  
Lewis C. Cantley and acknowledged that he/she  
executed the foregoing instrument as his/her free act and  
deed this 27<sup>th</sup> day of April, 1998.

*Catherine Lenich* Notary Public  
(SEAL) \_\_\_\_\_ (print name)  
My Commission expires \_\_\_ / \_\_\_ / \_\_\_

Inventor: *Michael Yaffe*  
Michael Yaffe

State/Commonwealth  
of MASSACHUSETTS  
County of SUFFOLK

**CATHERINE LENICH**  
Notary Public  
My Commission Expires July 30, 2004

Then personally appeared before me the above-named  
Michael Yaffe and acknowledged that he/she  
executed the foregoing instrument as his/her free act and  
deed this 20<sup>th</sup> day of April, 1998

*Catherine Lenich* Notary Public  
(SEAL) \_\_\_\_\_ (print name)  
My Commission expires \_\_\_ / \_\_\_ / \_\_\_

**CATHERINE LENICH**  
Notary Public  
My Commission Expires July 30, 2004

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