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<p>1. Name of conveying party(ies): Marion W. Wannamaker (03/08/1999), Guy W. Bemis (03/08/1999), Paul S. Charifson (03/08/1999), Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>3. Nature of conveyance/Execution Date(s): Execution Date(s): <u>Provided in parentheses following names of conveying parties in section 1</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____</p>	<p>2. Name and address of receiving party(ies) Name: <u>Vertex Pharmaceuticals Incorporated</u> Internal Address: _____ Street Address: _____ 130 Waverly Street City: <u>Cambridge</u> State: <u>Massachusetts</u> Country: <u>U.S.A.</u> Zip: <u>02139-4242</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>10/314,103</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>B. Patent No.(s) <u>6,531,474</u></p>
<p>5. Name and address to whom correspondence concerning document should be mailed: Name: <u>James F. Haley, Jr.</u> <u>ROPES & GRAY LLP</u> Internal Address: <u>Atty. Dkt.: VPI98-03 and VPI/98-03 DIV</u> Street Address: <u>1211 Avenue of the Americas</u> City: <u>New York</u> State: <u>NY</u> Zip: <u>10036-8704</u> Phone Number: <u>(212) 596-9086</u> Fax Number: <u>(212) 596-9090</u> Email Address: <u>karen.mangasarian@ropesgray.com</u></p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>80.00</u> <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)</p>
<p>8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ 06-1075; Order No. _____ b. Deposit Account Number <u>003681-0029</u> Authorized User Name <u>Karen Mangasarian</u></p>	
<p>9. Signature: <div style="text-align: center; margin-top: 20px;"> Signature <u>Karen Mangasarian (Reg. No. 43,772)</u> Name of Person Signing </div> <div style="text-align: right; margin-top: 20px;"> <u>September 11, 2007</u> Date Total number of pages including cover sheet, attachments, and documents: 13 </div> </p>	

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted by facsimile to the Patent and Trademark Office, facsimile no. (571) 273-0140, on the date shown below.

Dated: 9-11-07

Signature: Maura A. Gallagher Maura A. Gallagher

PATENT

REEL: 019805 FRAME: 0767

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CH \$80.00 061075 10314103

RECORDATION FORM COVER SHEET (PTO-1595)
(supplemental sheet)**Additional Conveying Party(ies)/Execution Date(s) (1. Continued):**

David J. Lauffer (03/08/1999), Michael D. Mullican (03/08/1999), Mark A. Murcko (03/08/1999), Keith P. Wilson (03/08/1999), James W. Janetka (03/08/1999), Robert J. Davies (03/08/1999), Anne-Laure Grillot (03/08/1999), Zhan Shi (03/08/1999), and Cornelia J. Foster (03/08/1999)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers

4A. Continued:

Additional Patent Numbers

4B. Continued:

Additional numbers attached?

☐

Yes

☐

No

PATENT**REEL: 019805 FRAME: 0768**

VPI98-03 PCT

PCT
ASSIGNMENT

We,

- (1) Marion W. Wannamaker,
- (2) Guy W. Bemis,
- (3) Paul S. Charifson,
- (4) David J. Lauffer,
- (5) Michael D. Mullican,
- (6) Mark A. Murcko,
- (7) Keith P. Wilson,
- (8) James W. Janetka,
- (9) Robert J. Davies,
- (10) Anne-Laure Grillot,
- (11) Zhan Shi and
- (12) Cornelia J. Foster

residing, respectively, at

- (1) 375 Harvard Road,
Stow, Massachusetts 01775-1064 (U.S.A.),
- (2) 256 Appleton Street,
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- (3) 7 Dartmouth Drive
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Cambridge, Massachusetts 02140 (U.S.A.)
- (11) 15 Sheridan Drive, Apt. 7
Shrewsbury, Massachusetts 01545 (U.S.A.)
- (12) 9 Nancy Avenue
Pelham, New Hampshire 03076 (U.S.A.)

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, and do hereby assign, sell and transfer to VERTEX PHARMACEUTICALS INCORPORATED a corporation organized and existing under the laws of the COMMONWEALTH OF MASSACHUSETTS and having an office and a place of business at 130 WAVERLY STREET, CAMBRIDGE, MASSACHUSETTS 02139-4242, its successors and assigns: (1) the entire right, title and interest in all countries throughout the world in and to any and all my/our inventions and discoveries disclosed in my/our International Patent Application, filed under the Patent Cooperation Treaty in the United States Receiving Office (RO/US), entitled: "INHIBITORS OF CASPASES," and designating Albania (AL), Armenia (AM), Australia (AU), Austria (AT), Azerbaijan (AZ), Barbados (BB), Belarus (BY), Belgium (BE), Benin (BJ), Bosnia and Herzegovina (BA), Brazil (BR), Bulgaria (BG), Burkina Faso (BF), Cameroon (CM), Canada (CA), Central African Republic (CF), Chad (TD), China (CN), Congo (CG), Côte d'Ivoire (CI), Cuba (CU), Czech Republic (CZ), Democratic People's Republic of Korea (KP), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Gabon (GA), Georgia (GE), Germany (DE), Greece (GR), Guinea (GN), Hungary (HU),

Iceland (IS), India (IN), Indonesia (ID), Ireland (IE), Israel (IL), Italy (IT), Japan (JP), Kazakstan (KZ), Kenya (KE), Kyrgyzstan (KG), Latvia (LV), Lesotho (LS), Liberia (LR), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Madagascar (MG), former Yugoslav Republic of Macedonia (MK), Malawi (MW), Mali (ML), Mauritania (MR), Mexico (MX), Monaco (MC), Mongolia (MN), Netherlands (NL), New Zealand (NZ), Niger (NE), Norway (NO), Poland (PL), Portugal (PT), Republic of Korea (KR), Republic of Moldova (MD), Romania (RO), Russian Federation (RU), Saint Lucia (LC), Senegal (SN), Sierra Leone (SL), Singapore (SG), Slovakia (SK), Slovenia (SI), Spain (ES), Sri Lanka (LK), Sudan (SD), Swaziland (SZ), Sweden (SE), Switzerland (CH), Tajikistan (TJ), Togo (TG), Trinidad and Tobago (TT), Turkey (TR), Turkmenistan (TM), Uganda (UG), Ukraine (UA), United Kingdom (GB), United States of America (US), Uzbekistan (UZ), Viet Nam (VN), Yugoslavia (YU), and Zimbabwe (ZW), [subsequently identified as International Patent Application PCT/US99/05919, filed 19 March 1999 (19.03.99)*], including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of VERTEX PHARMACEUTICALS INCORPORATED its designee, or in my/our names at VERTEX PHARMACEUTICALS INCORPORATED, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any

* I/We hereby authorize Vertex Pharmaceuticals Incorporated and its representatives to insert in this instrument the International Patent Application number and the filing date of said application when Vertex Pharmaceuticals Incorporated is officially notified thereof.

Letters Patent which may issue on the aforesaid inventions, discoveries and applications in any country of the world and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the following priority application(s):

<u>60/078,770</u>	<u>U.S.A.</u>	<u>March 19, 1998</u>
application no.	country	filing date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

I/We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to VERTEX PHARMACEUTICALS INCORPORATED as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

I/We agree, at any time, upon the request of VERTEX PHARMACEUTICALS INCORPORATED to execute and to deliver to VERTEX PHARMACEUTICALS INCORPORATED any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I/We further agree, at any time, upon request of VERTEX PHARMACEUTICALS INCORPORATED to execute and to deliver to VERTEX PHARMACEUTICALS INCORPORATED such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect any and all rights of VERTEX PHARMACEUTICALS INCORPORATED under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

ASSIGNORS:

X Marion W. Wannamaker (1)
Marion W. Wannamaker

X Guy W. Bemis (2)
Guy W. Bemis

X Paul S. Charifson (3)
Paul S. Charifson

X David S. Lauffer (4)
David S. Lauffer

X Michael D. Mullican (5)
Michael D. Mullican

X Mark A. Murcko (6)
Mark A. Murcko

X Keith P. Wilson (7)
Keith P. Wilson

X James W. Janetka (8)
James W. Janetka

X Robert J. Davies (9)
Robert J. Davies

X Anne-Laure Grillot (10)
Anne-Laure Grillot

X Zhan Shi (11)
Zhan Shi

X Cornelia J. Forster (12)
Cornelia J. Forster

On this 8th day of March, 1999,
(1) Marion W. Wannamaker personally appeared before me, a
Notary Public in and for the Commonwealth of Massachusetts,
and executed the foregoing Assignment and duly acknowledged
to me that such Assignment was executed for the uses and
purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of March, 1999,
(2) Guy W. Bemis personally appeared before me, a Notary
Public in and for the Commonwealth of Massachusetts, and
executed the foregoing Assignment and duly acknowledged to
me that such Assignment was executed for the uses and
purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of March, 1999,
(3) Paul S. Charifson personally appeared before me, a
Notary Public in and for the Commonwealth of Massachusetts,
and executed the foregoing Assignment and duly acknowledged
to me that such Assignment was executed for the uses and
purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of March, 1999,
(4) David J. Lauffer personally appeared before me, a
Notary Public in and for the Commonwealth of Massachusetts,
and executed the foregoing Assignment and duly acknowledged
to me that such Assignment was executed for the uses and
purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of MARCH, 1999,
(5) Michael D. Mullican personally appeared before me, a
Notary Public in and for the Commonwealth of Massachusetts,
and executed the foregoing Assignment and duly acknowledged
to me that such Assignment was executed for the uses and
purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of March, 1999,
(6) Mark A. Murcko personally appeared before me, a Notary
Public in and for the Commonwealth of Massachusetts, and
executed the foregoing Assignment and duly acknowledged to
me that such Assignment was executed for the uses and
purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of MARCH, 1999,
(7) Keith P. Wilson personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of MARCH, 1999,
(8) James W. Janetka personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of MARCH, 1999,
(9) Robert J. Davies personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of MARCH, 1999,
(10) Anne-Laure Grillot personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of March, 1999,
(11) Zhan Shi personally appeared before me, a Notary
Public in and for the Commonwealth of Massachusetts, and
executed the foregoing Assignment and duly acknowledged to
me that such Assignment was executed for the uses and
purposes therein expressed.

X Barbara Brooks
Notary Public
BARBARA BROOKS

ACKNOWLEDGEMENT OF ASSIGNEE:


Vertex Pharmaceuticals Incorporated

By: X Joshua S. Boger
Joshua S. Boger
President and Chief Executive Officer

On this 12th day of March, 1999,
Joshua S. Boger personally appeared before me, a Notary
Public in and for the Commonwealth of Massachusetts, and
duly acknowledged the executed Assignment on behalf of the
Assignee.

X Barbara Brooks
Notary Public
BARBARA BROOKS

On this 8th day of March, 1999,
(12) Cornelia J. Forster personally appeared before me, a Notary Public in and for
The Commonwealth of Massachusetts, and executed the foregoing Assignment and
duly acknowledged to me that such Assignment was executed for the uses and
purposes therein expressed.



Notary Public
BARBARA BROOKS

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