03-17-2005

Form **PTO-1595** (Rev. 06/04) OMB No. 0651-0027 (exp. 6/30/2005)



U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

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To the Director of the U.S. Patent and Trademark Office: Pleas	se record the attached documents or the new address(es) below.
1. Name of conveying party(ies)/Execution Date(s): Graham Cheetham; Ronald Knegtel; Lovorka Swenson;	2. Name and address of receiving party(ies) Name: Vertex Pharmaceuticals Incorporated
Joyce T. Coll; Suzanne Renwick; Peter Weber	Internal Address:
4/16/2003; 4/16/2003; 4/15/2003; Execution Date(s) 4/30/2003; 4/16/2003; 4/16/2003 Additional name(s) of conveying party(ies) attached? Yes No.	Street Address: 130 Waverly Street
3. Nature of conveyance:	
	City: Cambridge
Security Agreement Change of Name	State: MA
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: <u>USA</u> Zip: <u>02139-4242</u>
Other	Additional name(s) & address(es) attached? Yes No
	ttached? Yes No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: James F. Haley	7. Total fee (37 CFR 1.21 (h) & 3.41) \$ 40.00
Internal Address: Fish & Neave IP Group	Authorized to be charged by credit card
Ropes & Gray LLP	Authorized to be charged to deposit account
Street Address: 1251 Avenue of the Americas	Enclosed None required (government interest not affecting title)
City: New York	8. Payment Information
State: NY Zip:10020	a. Credit Card Last 4 Numbers
Phone Number: 212-596-9000	Expiration Date
Fax Number: 212-596-9090	b. Deposit Account Number 06-1075
Email Address: michele.kercher@ropesgray.com	Authorized User Name
9. Signature: Michele, A. Kercher	March 10, 2005
Signature	Date
5 BBYRNE 00000015 10979375 Michele A. Kercher (Reg. No. 51,3	Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

American LegalNet, Inc. www.USCourtForms.com

PCT ASSIGNMENT

	I/We,
(1)	Graham Cheetham,
(2)	Ronald Knegtel ,
(3)	Lovorka Swenson ,
(4)	Joyce T. Coll
(5)	Suzanne Renwick ,
(6)	Peter Weber ,
resid	ding, respectively, at
(1)	75 Hamble Drive
	Abingdon OX14 3TF, United Kingdom
(2)	92 Andersey Way
	Abingdon OX14 5NW, United Kingdom
(3)	5 Davis Road
	Belmont, Massachusetts 02478, U.S.A.
(4)	7 Phillips Street
	Westborough, Massachusetts 01581, U.S.A.
(5)	41 Loudwater Close, Sunbury on Thames
	Middlesex TW16 6DD, United Kingdom
(6)	76 West St. Helen Street

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 <u>VERTEX PHARMACEUTICALS INCORPORATED</u> a corporation organized and existing under the laws of the <u>COMMONWEALTH OF MASSACHUSETTS</u> and having an office and a place of

Abingdon OX14 5BP, United Kingdom

Page 1 of 8

PATENT REEL: 016356 FRAME: 0453

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: CRYSTAL STRUCTURE OF AURORA-2 PROTEIN AND BINDING POCKETS THEREOF, and designating Albania (AL), Algeria (DZ), Antigua & Barbuda (AG), Armenia (AM), Australia (AU), Austria (AT), Azerbaijan (AZ), Barbados (BB), Belarus (BY), Belgium (BE), Belize (BZ), 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), Colombia (CO), Congo (CG), Costa Rica (CR), Côte d'Ivoire (CI), Croatia (HR), Cuba (CU), Cyprus (CY), Czech Republic (CZ), Democratic People's Republic of Korea (KP), Denmark (DK), Dominica (DM), Ecuador (EC), Equatorial Guinea (GQ); Estonia (EE), Finland (FI), France (FR), Gabon (GA), Gambia (GM), Georgia (GE), Germany (DE), Ghana (GH), Greece (GR), Grenada (GD), Guinea (GN), Guinea Bissau (GW), 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), Morocco (MA), Mozambique (MZ), Netherlands (NL), New Zealand (NZ), Nicaragua (NI), Niger (NE), Norway (NO), Oman (OM), the Philippines (PH), Poland (PL), Portugal (PT), Republic of Korea (KR), Republic of Moldova (MD),

Romania (RO), Russian Federation (RU), Saint Lucia (LC), Saint Vincent and the Grenadines (VC), Senegal (SN), Seychelles (SC), Sierra Leone (SL), Singapore (SG), Slovakia (SK), Slovenia (SI), South Africa (ZA), Spain (ES), Sri Lanka (LK), Sudan (SD), Swaziland (SZ), Sweden (SE), Switzerland (CH), Tajikistan (TJ), Tanzania (TZ), Togo (TG), Trinidad and Tobago (TT), Tunisia (TN), Turkey (TR), Turkmenistan (TM), Uganda (UG), Ukraine (UA), United Arab Emirates (AE), United Kingdom (GB), United States of America (US), Uzbekistan (UZ), Viet Nam (VN), Yugoslavia (YU), Zambia (ZM) and Zimbabwe (ZW), and all other PCT countries, [subsequently identified as International Patent Application PCT/US03/13605_____, filed 01.05.03 *], including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore; (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 Letters Patent which may issue on the aforesaid inventions, discoveries and applications in any country of the world and renewals, revivals, reissues, reexaminations extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the

^{*} I/We hereby authorize <u>VERTEX PHARMACEUTICALS</u>
<u>INCORPORATED</u> and its representatives to insert in this instrument the International Patent Application number and the filing date of said application when <u>VERTEX PHARMACEUTICALS INCORPORATED</u> is officially notified thereof.

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):

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 <u>VERTEX PHARMACEUTICALS INCORPORATED</u> to execute and to deliver to <u>VERTEX PHARMACEUTICALS INCORPORATED</u> such additional documents, if any, as are necessary or

Page $\underline{4}$ of $\underline{8}$

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 <u>VERTEX PHARMACEUTICALS INCORPORATED</u> 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:

Graham Cheetham	(1)
Ronald Knegtel	(2)
Lovorka Swenson	(3)
Joyce Coll	(4)
Suzanne Renwick	(5)
Peter Weber	(6)

G. Cheethe		(1)
Graham	Cheetham	<u> </u>

(6.04.2003

Witness Name: WANETE KOUT

6.04.03

Date

Witness Name: John Couch

Date

Ronald Knegtel (2)	16/4/2003 Date
Witness Name: DANIEL ROBINSON	<u>16-4(2003</u> Date
Witness Name: LYNNETTE KOLY	1604.03 Date
Lovokra Swenson (3)	Date
Lovorka Swenson (3) personally	
Notary Public in and for the	
and executed the foregoing	Assignment and duly
acknowledged to me that such Assi	gnment was executed for
the uses and purposes therein expre	essed.

Notary Public

Joyce 7. doll (4)	H/3/1/3
On this by day of Joyce T. Coll (4) personally appearable in and for the manner of the executed the foregoing Assignment to me that such Assignment was expurposes therein expressed.	ared before me, a Notary WATA OF MASS, and t and duly acknowledged
Suzanne Renwick (5)	<u>ILluloz</u> Date
Witness Name: LYNNETTE KOLY	16.04.03 Date
Witness Name: Some Louch	16.04.03 Date
Peter Weber (6)	16.4.03 Date
Witness Name: L'ANNETTE KALY	16.04.03 Date

ACKNOWLEDGEMENT OF ASSIGNEE:

By: Kenneth S. Boger
Senior Vice President & General Counsel

On this day of MAY, 2003,

Kenneth 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.

Notary Public

MY COMMISSION EXPIRES 1 3 1009

I hereby acknowledge the foregoing executed Assignment on

behalf/of VERTEX PHARMACEUTICALS INCORPORATED

PCT ASSIGNMENT

	I/We,
(1)	Graham Cheetham ,
(2)	Ronald Knegtel ,
(3)	Lovorka Swenson ,
(4)	Joyce T. Coll
(5)	Suzanne Renwick ,
(6)	Peter Weber ,
resid	ding, respectively, at
(1)	75 Hamble Drive
	Abingdon OX14 3TF, United Kingdom
(2)	92 Andersey Way
4	Abingdon OX14 5NW, United Kingdom
(3)	5 Davis Road
	Belmont, Massachusetts 02478, U.S.A.
(4)	7 Phillips Street
	Westborough, Massachusetts 01581, U.S.A.
(5)	41 Loudwater Close, Sunbury on Thames
	Middlesex TW16 6DD, United Kingdom
(6)	76 West St. Helen Street
	Abingdon OX14 5BP, United Kingdom

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 <u>VERTEX PHARMACEUTICALS INCORPORATED</u> a corporation organized and existing under the laws of the <u>COMMONWEALTH OF MASSACHUSETTS</u> and having an office and a place of

Page 1 of 8

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: CRYSTAL STRUCTURE OF AURORA-2 PROTEIN AND BINDING POCKETS THEREOF, and designating Albania (AL), Algeria (DZ), Antigua & Barbuda (AG), Armenia (AM), Australia (AU), Austria (AT), Azerbaijan (AZ), Barbados (BB), Belarus (BY), Belgium (BE), Belize (BZ), 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), Colombia (CO), Congo (CG), Costa Rica (CR), Côte d'Ivoire (CI), Croatia (HR), Cuba (CU), Cyprus (CY), Czech Republic (CZ), Democratic People's Republic of Korea (KP), Denmark (DK), Dominica (DM), Ecuador (EC), Equatorial Guinea (GQ); Estonia (EE), Finland (FI), France (FR), Gabon (GA), Gambia (GM), Georgia (GE), Germany (DE), Ghana (GH), Greece (GR), Grenada (GD), Guinea (GN), Guinea Bissau (GW), 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), Morocco (MA), Mozambique (MZ), Netherlands (NL), New Zealand (NZ), Nicaragua (NI), Niger (NE), Norway (NO), Oman (OM), the Philippines (PH), Poland (PL), Portugal (PT), Republic of Korea (KR), Republic of Moldova (MD),

PATENT REEL: 016356 FRAME: 0462 Romania (RO), Russian Federation (RU), Saint Lucia (LC), Saint Vincent and the Grenadines (VC), Senegal (SN), Seychelles (SC), Sierra Leone (SL), Singapore (SG), Slovakia (SK), Slovenia (SI), South Africa (ZA), Spain (ES), Sri Lanka (LK), Sudan (SD), Swaziland (SZ), Sweden (SE), Switzerland (CH), Tajikistan (TJ), Tanzania (TZ), Togo (TG), Trinidad and Tobago (TT), Tunisia (TN), Turkey (TR), Turkmenistan (TM), Uganda (UG), Ukraine (UA), United Arab Emirates (AE), United Kingdom (GB), United States of America (US), Uzbekistan (UZ), Viet Nam (VN), Yugoslavia (YU), Zambia (ZM) and Zimbabwe (ZW), and all PCT countries, [subsequently identified International Patent Application PCT/US03/13605, filed 01.05.03 *], including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore; (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 Letters Patent which may on the aforesaid inventions, discoveries issue and applications in any country of the world and any renewals, revivals, reissues, reexaminations extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the

^{*} I/We hereby authorize <u>VERTEX PHARMACEUTICALS</u>
<u>INCORPORATED</u> and its representatives to insert in this instrument the International Patent Application number and the filing date of said application when <u>VERTEX PHARMACEUTICALS INCORPORATED</u> is officially notified thereof.

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):

60/377,510 U.S.A. 1 May 2002 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 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

Page $\underline{4}$ of $\underline{8}$

PATENT REEL: 016356 FRAME: 0464 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 <u>VERTEX PHARMACEUTICALS INCORPORATED</u> 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:

Graham Cheetham	(1)
Ronald Knegtel	(2)
Lovorka Swenson	(3)
Joyce Coll	(4)
Suzanne Renwick	(5)
Peter Weber	(6)

	(1)		
Graham Cheetham		Date	
Witness Name:	-	Date	
Witness Name:	-	 Date	

•	(2)	
Ronald Knegtel		Date
Witness Name:		 Date
Witness Name:		Date
Lovokra Swenson	(3)	04 15 03 Date

On this 15th day of April, 2003, Lovorka Swenson (3) 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

MY COMMISSION EXPINES!

3/4/09

•	(4)		
Joyce T. Coll	` ,	Date	
On this	day	of	, 2003,
Joyce T. Coll (4) pers	onally appe	eared before me	, a Notary
Public in and for th	ie		, and
executed the foregoing	g Assignmer	nt and duly ac	knowledged
to me that such Assigr	nment was e	xecuted for the	e uses and
purposes therein expre	ssed.		
		Notary Publ	lic
		wocary rab.	
	(5)		
Suzanne Renwick	(3)	Date	
Witness Name:		Date	
Witness Name:		 Date	
	(6)		
Peter Weber	. (0)	Date	
Witness Name:		Date	

Date

Witness Name:

ACKNOWLEDGEMENT OF ASSIGNEE:

RECORDED: 03/14/2005

behalf by VERTEX PHARMACEUTICALS INCORPORATED

By: Kenneth S. Boger
Senior Vice President & General Counsel

On this day of MPPU, 2003,

Kenneth 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.

Notary Public

Notary Public

Notary Public

I hereby acknowledge the foregoing executed Assignment on