.S. Department of Commerce Patent and Trademark Office

102032994

To the Honorable control oner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1.	Name of conveying party(ies): Qingping Tian; Naresh K. Nayyar; 3 2/02	Name: Ag	and address of receiving party(ies): gouron Pharmaceuticals, Inc.	
	Srinivasan Babu; Junhua Tao;	Address: 1	0350 North Torrey Pines Road	
	Terence Jarold Moran; Raymond Dagnino, Jr.; Lennert J. Mitchell, Jr.;	City: La J	olla	
	Travis Paul Remarchuk;	State: Cali	fornia	
	Michael Joseph Melnick; Steven Lee Bender	Country: United States of America		
Add	ditional conveying party(ies) attached? □ Yes ☑ No	Additional 1	receiving party(ies) attached? □ Yes ☒ No	
3.	Nature of Conveyance:			
	■ Assignment	□ Merge	г	
	☐ Security Agreement ☐ Other:	□ Chang	e of Name	
	Execution Date(s): February 27, 2002; March 7	. 2002 · Ma	roh 8, 2002 · March 12, 2002	
4. Application number(s) or patent number(s): Additional numbers attached? □ Yes ☒ No				
 □ A new application, the specification filed herewith. ☑ Application No. 09/984,555 ; filed: October 30, 2001 (originally filed April 20, 2001) □ Patent No. ; filed: 				
5.	Name and address of party to whom correspond concerning document should be mailed:	ence 6.	Total number of applications and patents involved: $\underline{1}$	
	me: Shanks & Herbert	7.	, , ,	
	tn: Christina M. Gadiano reet Address: Transpotomac Plaza		☑ Enclosed☐ Authorized to be charged to deposit account:	
Su	1033 N. Fairfax Street	8.	Deposit Account No.: 50-0622	
	Alexandria, VA 22314		(Attach duplicate copy of page if charging to deposit account)	
	DO NOT U	JSE 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.			555 40.00 @P	
	77		3-21-02	0998 4
	Christina M. Gadiano, 37,628 Typed Name, Reg. No.	Attorney	Signature Date	- 8
	-	•		9000
	IB No. 0651-0011 (ext. 4/94) al number of pages including cover sheet, attachments and do	cument 11		002 SFELEKE1 00000083 09984555 81 40.
Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments				902 SF

Washington, D.C. 20231

PATENT STATES PA

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned, each of the undersigned hereby sells and assigns to <u>Agouron Pharmaceuticals, Inc.</u>, having a place of business at 10350 North Torrey Pines Road, La Jolla, California 92037-1020, (the Assignee) his/her entire right, title and interest

check applicable box(es)	\boxtimes	for the United States of America (as defined in 35 U.S.C.
		Sec. 100),
	\boxtimes	and throughout the world

in the invention(s) known as Efficient Synthetic Routes for the Preparation of Rhinovirus Protease Inhibitors and Key Intermediates and described in United States Application No. 09/984,555, filed October 30, 2001 (originally filed April 20, 2001), in any and all patent applications on such invention(s) or based on such application, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations, divisions and continuations of such patent applications or Letters Patent(s) to the full end of the term or terms for which such Letters patent(s) issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee the same as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

Each of the undersigned agrees to execute all papers necessary in connection with such provisional application and patent applications, and any reissues, extensions, renewals, reexaminations, divisions, and continuations thereof, and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

Each of the undersigned agrees to execute all papers necessary in connection with any interference or proceeding which may be declared concerning any such patent application or any reissues, reexaminations, divisions, and continuations thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or proceeding.

Each of the undersigned hereby covenants that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict herewith.

Each of the undersigned hereby grants Mark R. Shanks, Reg. No. 33,781, Toni-Junell Herbert, Reg. No. 34,348, Joseph G. Contrera, Reg. No. 44,628, Shelly Guest Cermak, Reg. No. 39,571, Christina Gadiano, Reg. No. 37,628, Ping Wang, Reg. No. 48,328, Chris Aniedobe, Reg. No. P-48,293, and Kristin Vidovich, Reg. No. 41,448, all of SHANKS & HERBERT, TransPotomac Plaza, 1033 N. Fairfax St., Suite 306, Alexandria, Virginia 22314, and Linda S. Evans, Reg. No. 33,873; Mitchell R. Brustein, Reg. No. 38,394; Aubrey Haddach, Reg. No. 48,374; Wendy Lei Hsu, Reg. No. 42,794; Keith D. Hutchinson, Reg. No. 43,687; Ron Myers, Reg. No. 43,825; Karl Neidert, Reg. No. 39,313; Robert W. Prince, Reg. No. 38,583; Joseph F. Reidy, Reg. No. 39,390; and Jeffrey W. Rennecker, Reg. No. 40,784, of Agouron Pharmaceuticals, Inc., 10350 North Torrey Pines Road, La Jolla California 92037-1020, power to insert on this assignment any further information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by each of the undersigned on the date opposite his/her name:

Date: 3-12-67 Signature of Inventor:

Date: 3-7-07 Signature of Inventor:

Naresh K. Nayyar

Date: 03/07/02 Signature of Inventor:

Srinivasan Babu

Date: 03/07/02 Signature of Inventor:

Junhua Tao

Į

Appl. No. 09/984,555 Atty. Dkt. No. 0125-0028	CIP2	
Date: 3/8/62	Signature of Inventor:	Jerner Moran
Date: 03/07/02	Signature of Inventor:	Terence Jarold Moran Raymond Dagnino, Jr
Date: 03/07/2002	Signature of Inventor:	Lennert J. Mitchell, Jr.
Date:	Signature of Inventor:	,
Date:	Signature of Inventor:	Michael Joseph Melnick
Date: March 7, 2002	Signature of Inventor:	At L Bind

2

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California)			
	ss.			
County of San Diego				
On 7 March 2002 , before me,	Bonnie Acosta, Notary Public			
Dale	Name and Title of Officer (e.g., "Jane Doe, Notary Public")			
personally appeared <u>Naresh Nayya</u> Lennert Mitc	r, S. Babu, J. Tao, R. Dagnino and Name(s) of Signer(s)			
Demiert Micc	x personally known to me			
	proved to me on the basis of satisfactory			
	evidence			
	to be the person(s) whose name(s) is/are			
BONNIE ACOSTA	subscribed to the within instrument and			
Comm. # 1283327	acknowledged to me that he/she/they executed			
NOTARY PUBLIC CALIFORNIA San Diego County	the same in his/her/their authorized			
My Comm. Expires Dec. 6, 2004	capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or			
	the entity upon behalf of which the person(s)			
	acted, executed the instrument.			
BONNIE ACOST				
GOMM: # 1283327	WITNESS my hand and official seal			
San Biege County	Du Charles			
My Comm. Expires Dec. 6, 2004 Place Notary Seal Above	Signature of Notary Public			
,.				
OPTIONAL				
Though the information below is not required be and could prevent fraudulent remove	y law, it may prove valuable to persons relying on the document all and reattachment of this form to another document.			
Description of Attached Document				
Title or Type of Document: Assic	nment 0074-02-US			
Document Date: 3/7,8&12/02	Number of Pages: two			
Signer(s) Other Than Named Above:	None			
Signer(s) Other Than Named Above.				
Capacity(ies) Claimed by Signer Signer's Name: Nayyar, Babu, Tac	o, Dagnino & Mitchell RIGHT THUMBPRIN			
Individual	OF SIGNER Top of thumb here			
☐ Corporate Officer — Title(s):				
□ Partner — □ Limited □ General				
Attorney in Fact				
Trustee				
☐ Guardian or Conservator ☐ Other:				
L. OHBI.				
Signer Is Representing:				

PATENT REEL: 012708 FRAME: 0957

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

Date Personally appeared Terrence Terrence Moran Name(s) of proved to evidence to be the subscribed acknowledg the same capacity(ies signature(s) the entity u acted, exect OPTIONAL Place Notary Seal Above Description of Attached Document Title or Type of Document: Assignment 0074-02 Document Date: 3/7,8612/02	known to me me on the basis of satisfactory person(s) whose name(s) is/are to the within instrument and ed to me that he/she/they executed in his/her/their authorized), and that by his/her/their on the instrument the person(s), or
On	control of Officer (e.g., "Jane Doe, Notary Public") igner(s) known to me me on the basis of satisfactory person(s) whose name(s) is/are to the within instrument and ed to me that he/she/they executed in his/her/their authorized), and that by his/her/their on the instrument the person(s), or boon behalf of which the person(s)
Date Personally appeared Terrence Terrence Moran Name(s) of proved to evidence to be the subscribed acknowledg the same capacity(ies signature(s) the entity u acted, exect NoTARY PUBLIC-CALIFORNIA San Diego County My Comm. Expires Dec. 5, 2004 Place Notary Seal Above Description of Attached Document Title or Type of Document: Though the information: Assignment 0074-02: Document Date: 3/7,8612/02	control of Officer (e.g., "Jane Doe, Notary Public") igner(s) known to me me on the basis of satisfactory person(s) whose name(s) is/are to the within instrument and ed to me that he/she/they executed in his/her/their authorized), and that by his/her/their on the instrument the person(s), or boon behalf of which the person(s)
BONNIE ACOSTA Comm. # 1283327 NoTARY PUBLIC-CALIFORNIA San Diego County My Comm. Expires Dec. 6, 2004 Place Notary Seal Above Description of Attached Document Title or Type of Document:	known to me me on the basis of satisfactory person(s) whose name(s) is/are to the within instrument and ed to me that he/she/they executed in his/her/their authorized), and that by his/her/their on the instrument the person(s), or boon behalf of which the person(s)
BONNIE ACOSTA acknowledge the same capacity(ies signature(s) the entity use acted, exect the expression of Attached Document and could prevent fraudulent removal and reattachment of Description of Attached Document **To be the subscribed acknowledge the subscri	known to me me on the basis of satisfactory person(s) whose name(s) is/are to the within instrument and ed to me that he/she/they executed in his/her/their authorized), and that by his/her/their on the instrument the person(s), or boon behalf of which the person(s)
Subscribed acknowledge the same capacity(ies signature(s)) the entity u acted, exect the entity u acted, exect the spires Dec. 6, 2004 Though the information below is not required by law, it may prove valuand could prevent fraudulent removal and reattachment of the or Type of Document:	to the within instrument and ed to me that he/she/they executed in his/her/their authorized), and that by his/her/their on the instrument the person(s), or oon behalf of which the person(s)
Though the information below is not required by law, it may prove valuand could prevent fraudulent removal and reattachment of Description of Attached Document Title or Type of Document: Assignment 0074–02 Document Date: 3/7,8&12/02	y hand and official seal. Miles Company Public
Title or Type of Document: Assignment 0074-02 Document Date: 3/7,8&12/02	able to persons relying on the document his form to another document.
_	·US
None	Number of Pages:
Signer(s) Other Than Named Above: None	
Capacity(ies) Claimed by Signer	
Signer's Name: Moran	RIGHT THUMBPRIN OF SIGNER
Individual	Top of thumb here
Corporate Officer — Title(s): Partner — Limited C General	
☐ Attorney in Fact	
The Attorney in Fact	
Guardian or Conservator	
Other:	

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California	•			
State of Gamorina	ss.			
County of San Diego	5 33.			
On 12 March 2002 before me	Ronnia Acosta Notary Dublic			
Date	Bonnie Acosta, Notary Public Name and Title of Officer (e.g., "Jane Doe, Notary Public")			
personally appearedQ. Tia				
	Name(s) of Signer(s)			
	□ personally known to me			
	proved to me on the basis of satisfactorevidence			
	to be the person(s) whose name(s) is/a subscribed to the within instrument a			
	acknowledged to me that he/she/they execute			
	the same in his/her/their authorize			
	capacity(ies), and that by his/her/the			
	signature(s) on the instrument the person(s),			
BONNIE ACOSTA	the entity upon behalf of which the person			
Comm. # 1283327 NOTARY PUBLIC CALIFORNIA	acted, executed the instrument.			
San Diego County My Comm. Expires Dec. 6, 2004	WITNESS my hand and official/seal.			
	3-110			
	Jonne / floor			
Place Notary Seal Above	Signature of Notary Public			
OPTIONAL -				
Though the information below is not required by law, it may prove valuable to persons relying on the document				
and could prevent fraudulent removal a	and reattachment of this form to another document.			
Description of Attached Document				
Title or Type of Document: Assign	ment 0074-02-US			
Document Date: 3/7,8&12/02	Number of Pages: two			
Signer(s) Other Than Named Above: No	one			
	ne			
Capacity(ies) Claimed by Signer Signer's Name: Tian				
Signer's Name: Tlan	RIGHT THUMBPR OF SIGNER			
☑ Individual ☐ Corporate Officer — Title(s):	Top of thumb he			
Partner — ☐ Limited ☐ General				
Attorney in Fact				
Trustee				
Guardian or Conservator				
Other:				
T Guior.	İ			
Signer Is Representing:				

PATENT REEL: 012708 FRAME: 0959

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned, each of the undersigned hereby sells and assigns to <u>Agouron Pharmaceuticals</u>, <u>Inc.</u>, having a place of business at <u>10350 North Torrey Pines Road</u>, <u>La Jolla</u>, <u>California 92037-1020</u>, (the Assignee) his/her entire right, title and interest

check applicable box(es) for the United States of America (as defined in 35 U.S.C. Sec. 100),

and throughout the world

in the invention(s) known as Efficient Synthetic Routes for the Preparation of Rhinovirus Protease Inhibitors and Key Intermediates and described in United States Application No. 09/984,555, filed October 30, 2001 (originally filed April 20, 2001), in any and all patent applications on such invention(s) or based on such application, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations, divisions and continuations of such patent applications or Letters Patent(s) to the full end of the term or terms for which such Letters patent(s) issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee the same as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

Each of the undersigned agrees to execute all papers necessary in connection with such provisional application and patent applications, and any reissues, extensions, renewals, reexaminations, divisions, and continuations thereof, and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

Each of the undersigned agrees to execute all papers necessary in connection with any interference or proceeding which may be declared concerning any such patent application or any reissues, reexaminations, divisions, and continuations thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or proceeding.

Each of the undersigned hereby covenants that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict herewith.

Each of the undersigned hereby grants Mark R. Shanks, Reg. No. 33,781, Toni-Junell Herbert, Reg. No. 34,348, Joseph G. Contrera, Reg. No. 44,628, Shelly Guest Cermak, Reg. No. 39,571, Christina Gadiano, Reg. No. 37,628, Ping Wang, Reg. No. 48,328, Chris Aniedobe, Reg. No. P-48,293, and Kristin Vidovich, Reg. No. 41,448, all of SHANKS & HERBERT, TransPotomac Plaza, 1033 N. Fairfax St., Suite 306, Alexandria, Virginia 22314, and Linda S. Evans, Reg. No. 33,873; Mitchell R. Brustein, Reg. No. 38,394; Aubrey Haddach, Reg. No. 48,374; Wendy Lei Hsu, Reg. No. 42,794; Keith D. Hutchinson, Reg. No. 43,687; Ron Myers, Reg. No. 43,825; Karl Neidert, Reg. No. 39,313; Robert W. Prince, Reg. No. 38,583; Joseph F. Reidy, Reg. No. 39,390; and Jeffrey W. Rennecker, Reg. No. 40,784, of Agouron Pharmaceuticals, Inc., 10350 North Torrey Pines Road, La Jolla California 92037-1020, power to insert on this assignment any further information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by each of the undersigned on the date opposite his/her name:

Date:	Signature of Inventor:	
		Qingping Tian
Date:	Signature of Inventor:	
		Naresh K. Nayyar
Date:	Signature of Inventor:	
	Ü	Srinivasan Babu
Date:	Signature of Inventor:	
and the second s		Junhua Tao

Date:	Signature of Inventor:	Terence Jarold Moran
Date:	Signature of Inventor	Terence Jaroid Mioran
Date	Signature of Inventor.	Raymond Dagnino, Jr.
Date:	Signature of Inventor:	Lennert J. Mitchell, Jr.
Date:	Signature of Inventor	Edition 3. Whenen, 31.
	Signature of Inventor.	Travis Paul Remarchuk Mechal Joseph Melal
Date: 2/27/2012	Signature of Inventor:	Michael Joseph Melnick
Date:	Signature of Inventor	Michael Sofgin Memor
Duto	Digitator of involtor.	Steven Lee Bender

On this 27th day of Feb. 18 2062

Luciada M. Malocha Notary Public

before me personally appeared
Michael Joseph McInick

to me known to be the person who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

Appl. No. 09/984,555

Atty. Dkt. No. 0125-0028CIP2

LUCINDA M. MALOCHA NOTARY PUBLIC WASHTENAW CO., MJ MY COMMISSION EXPIRES Sep 21, 2004

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned, each of the undersigned hereby sells and assigns to <u>Agouron Pharmaceuticals</u>, <u>Inc.</u>, having a place of business at <u>10350 North Torrey Pines Road</u>, <u>La Jolla</u>, <u>California 92037-1020</u>, (the Assignee) his/her entire right, title and interest

in the invention(s) known as Efficient Synthetic Routes for the Preparation of Rhinovirus Protease Inhibitors and Key Intermediates and described in United States Application No. 09/984,555, filed October 30, 2001 (originally filed April 20, 2001), in any and all patent applications on such invention(s) or based on such application, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations, divisions and continuations of such patent applications or Letters Patent(s) to the full end of the term or terms for which such Letters patent(s) issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee the same as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

Each of the undersigned agrees to execute all papers necessary in connection with such provisional application and patent applications, and any reissues, extensions, renewals, reexaminations, divisions, and continuations thereof, and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

Each of the undersigned agrees to execute all papers necessary in connection with any interference or proceeding which may be declared concerning any such patent application or any reissues, reexaminations, divisions, and continuations thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or proceeding.

Each of the undersigned hereby covenants that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict herewith.

Each of the undersigned hereby grants Mark R. Shanks, Reg. No. 33,781, Toni-Junell Herbert, Reg. No. 34,348, Joseph G. Contrera, Reg. No. 44,628, Shelly Guest Cermak, Reg. No. 39,571, Christina Gadiano, Reg. No. 37,628, Ping Wang, Reg. No. 48,328, Chris Aniedobe, Reg. No. P-48,293, and Kristin Vidovich, Reg. No. 41,448, all of SHANKS & HERBERT, TransPotomac Plaza, 1033 N. Fairfax St., Suite 306, Alexandria, Virginia 22314, and Linda S. Evans, Reg. No. 33,873; Mitchell R. Brustein, Reg. No. 38,394; Aubrey Haddach, Reg. No. 48,374; Wendy Lei Hsu, Reg. No. 42,794; Keith D. Hutchinson, Reg. No. 43,687; Ron Myers, Reg. No. 43,825; Karl Neidert, Reg. No. 39,313; Robert W. Prince, Reg. No. 38,583; Joseph F. Reidy, Reg. No. 39,390; and Jeffrey W. Rennecker, Reg. No. 40,784, of Agouron Pharmaceuticals, Inc., 10350 North Torrey Pines Road, La Jolla California 92037-1020, power to insert on this assignment any further information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by each of the undersigned on the date opposite his/her name:

Date:	Signature of Inventor:	Qingping Tian
Date:	Signature of Inventor:	Naresh K. Nayyar
Date:	Signature of Inventor:	Srinivasan Babu
Date:	Signature of Inventor:	Junhua Tao

Appl. No. 09/984,555 Atty. Dkt. No. 0125-0028	CIP2	
Date:	Signature of Inventor:	T. 11114
Б.	G. CI	Terence Jarold Moran
Date:	Signature of Inventor:	Raymond Dagnino, Jr.
Date:	Signature of Inventor:	
Date: 02/27/02	Signature of Inventor:	Tavis Paul Remarchuk
Date:	Signature of Inventor:	
Date:	Signature of Inventor:	

Steven Lee Bender

State of California.	OPTIONAL SECTION
County of Cyangl	CAPACITY CLAIMED BY SIGNER(S):
· //	■ INDIVIDUAL
March to som. Marga / The des worms Allie	☐ CORPORATE
On II WIGHT COA before me, ON THE CONTROL OF THE SAME OF THE CONTROL OF THE CONTR	OFFICER(S)
on March 6,000 before me, Jana L. Frendes, Notary Public personally appeared Travis Bul Remarchalk	TITLE(S) PARTNER(S) LIMITED
personally known to me -OR-	GENERAL
personally known to me	☐ ATTORNEY-IN-FACT
proved to me on the basis of satisfactory evidence to be the person(x) whose name(x)	
is/are subscribed to the within instrument and acknowledged to me that he/she/they	TRUSTEE(S)
executed the same in his/her/their authorized capacity(hes), and that by his/her/their	☐ GUARDIAN/CONSERVATOR
signature(s) on the instrument the person(s), or the entity upon behalf of which the	OTHER:
person(s) acted, executed the instrument.	
Witness my hand and official seal.	SIGNER IS REPRESENTING:
	NAME OF PERSON(S) OR ENTITY(IES)
JANAI L. FUENTES	NAME OF PERSON(S) OR ENTITY (IES)
Commission # 1294137	
Notary Public - California \$	
Orange County	
My Comm. Espires Mar 15, 2005	
OPTIONAL SECTION	
THIS CERTIFICATE MUST BE Title or Type of Document ASSIGNMENT	
ATTACHED TO THE DOCUMENT Number of Pages Date of Docu	ment
DESCRIBED AT RIGHT: Signer(s) Other Than Named Above 10 other	

RECORDED: 03/21/2002