OMB to 0657-0011 (exp. 4/94)	D-1998 Convas International, Inc. Corporate Secretary 3030 Science Park Road San Diego, California 92121
3. Nature of conveyance: Assignment Execution Date: October 22, 1997.	Additional name(s) & address(es) attached? Yes No No
 Application number(s) or patent number(s): If this document is being filed together with a new ap A. Patent Application No.(s) 08/809,455 	pplication, the execution date of the application is: B. Patent No.(s)
Additional numbers attac	ched? ☐ Yes No 🖾
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Suzanne L. Biogs LYON & LYON	7. Total fee (37 CFR 3.41)\$40.00 x Charge to Deposit Account
Street Address: 633 West Fifth Street Suite 4700 City: Los Angeles State: CA Zip: 90071-2066	8. Deposit account number: 12-2475
DO NOT US	E THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing a true copy of the original document. SUZANNE L. BIGGS Name of Person Signing	g information is true and correct and any attached copy is November 24, 1997 Date sheet, attachments, and document: 49

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

For valuable consideration, we. George Phillip Vlasuk of 7325 Calle Luna, Carlsbad, California 92009; Patrick Eric Hugo Stanssens of Constant Permekelaan 48, B-9830 St-Martens-Latem, Belgium; Joris Hilda Lieven Messens of Saviolaan 34, 1700 Dilbeek, Belgium; Marc Josef Lauwereys of Wilgenstraat 2, B-9450 Haaltert, Belgium; Yves Rene Laroche of Rue Bernel 115, 1150 Bruxelles, Belgium; Laurent Stephane Jespers of Karel Van Lorreinen Laan 4, 3080 Tervuren, Belgium; Yannick Georges Jozef Gansemans of Zeeweg 32, 8480 Ichtegem, Belgium; Matthew Moyle of 3171 4th Street, Boulder, Colorado 80304 and Peter W. Bergum of 12906 Carmel Creek Road #6, San Diego, California 92130 hereby assign to CORVAS INTERNATIONAL, INC., a Delaware corporation having a place of business at 3030 Science Park Road, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent entitled **SERINE PROTEASE** "NEMATODE **EXTRACTED INHIBITORS AND** ANTICOAGULANT PROTEINS", filed on October 17, 1995, U.S. Serial No. 08/809,455, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

IN WITNESS WHEREOF,, 1997.	I hereto set my hand and se	al at	, this	day of
7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
		George Phillip	Vlasuk	
State of	:			
County of	:			
On	, 1997, before me,			
evidence to be the persone acknowledged to me that he	sonally known to me or pro (s) whose name(s) is/are su /she/they executed the same in nature(s) on the instrument the executed the instrument.	bscribed to the n his/her/their at	within instrui uthorized capa	ment and acity(ies),
WITNESS m	y hand and official seal.			
		Signature of N		_
IN WITNESS WHEREOF,, 1997.	I hereto set my hand and sea	al at	, this	day of
		Patrick Eric F	Iugo Stanssen	s
State of	: SS.			
County of	;			
Patrick Eric Hugo Stanssens evidence to be the persone acknowledged to me that he	, 1997, before me,	proved to me on bscribed to the n his/her/their au	the basis of sa within instru uthorized capa	tisfactory ment and acity(ies),
WITNESS m	y hand and official seal.			
		Signature of N		

IN WITNESS WHER , 1997.	EOF, I hereto set my hand and	seal at	, this	day of
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		Joris Hilda Lieve	en Messens	
State of	:			
	SS.			
County of	_ :			
Joris Hilda Lieven Me evidence to be the p acknowledged to me that and that by his/her/the	. 1997, before me	proved to me on the subscribed to the wi e in his/her/their auth	basis of sat thin instrut orized capa	tisfactory ment and city(ies),
WITN	ESS my hand and official seal.			
		Signature of Not	ary	
IN WITNESS WHER , 1997.	EOF, I hereto set my hand and	seal at	, this	_ day of
		Marc Josef Lauv	vereys	
State of				
	SS.			
County of	- :			
On	, 1997, before me,		personally	appeared
evidence to be the p acknowledged to me the and that by his/her/the	erson(s) whose name(s) is/are that he/she/they executed the same ir signature(s) on the instrument eted, executed the instrument.	subscribed to the wi	thin instrur orized capa	nent and city(ies),
WITN	ESS my hand and official seal.			
		Signature of Not	arv	

IN WITNESS WHEREC	F, I hereto set my hand and seal a	t <u>Brussel</u> , this <u>3nd</u> day of
<u>October</u> , 1997.		447
KINGDOM OF BELGIUM		- TIME
CITY OF BRUSSELS	SS.	
EMBASSY OF THE UNITED	-	Yves Rene LaRoche
STATES OF AMERICA State of <u>Brunel</u>		
State of Source	:	
County of Belgium	SS.	
County of Bergann	•	
on October	3 1997 before me /2/100c/d	a 1. Walson personally appeared
		e on the basis of satisfactory evidence
<u>-</u>	-	within instrument and acknowledged
<u>-</u>		authorized capacity(ies), and that by
<u> </u>		r the entity upon behalf of which the
person(s) acted, executed		
	(Monde . Maton
WITNESS	S my hand and official seal.	RHONDA WATSON
	ır	NITED STATES OF AMERICA
		Signature of Notary
IN WITNESS WHEREC	OF, I hereto set my hand and seal a	t, this day of
		Laurent Stephane Jespers
State of		
State of	SS.	
County of		
	•	
On	, 1997, before me,	personally appeared
		red to me on the basis of satisfactory
		cribed to the within instrument and
		nis/her/their authorized capacity(ies),
		erson(s), or the entity upon behalf of
which the person(s) acte	d, executed the instrument.	
WITNES	S my hand and official seal.	
		Signature of Notary

IN WITNESS WHEREOF, I hereto, 1997.	o set my hand and seal a	t day of
7		
		Yannick Georges Jozef Gansemans
State of :		
County of :		
On	, 1997, before me, _	personally
of satisfactory evidence to be the instrument and acknowledged to me	e person(s) whose name that he/she/they execute eir signature(s) on the in	wn to me or proved to me on the basis e(s) is/are subscribed to the within of the same in his/her/their authorized astrument the person(s), or the entity rument.
WITNESS my hand	and official seal.	
		Signature of Notary
IN WITNESS WHEREOF, I hereto	set my hand and seal a	this day of
		Matthew Moyle
State of :		
County of :		
Matthew Moyle personally known to be the person(s) whose name(s) is/me that he/she/they executed the	o me or proved to me or are subscribed to the wi same in his/her/their a trument the person(s), o	personally appeared the basis of satisfactory evidence to thin instrument and acknowledged to uthorized capacity(ies), and that by the entity upon behalf of which the
WITNESS my hand	and official seal.	
		Signature of Notary

			216/	270-PCT Patent
IN WITNESS WHER	EOF, I hereto set my hand and	seal at	, this	
		Peter W. Be	ergum	
State of	_ :			
	SS.			
County of	_ :			
On	, 1997, before me,		personally	appeared
Peter W. Bergum personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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.				
WITN	ESS my hand and official seal.			

For valuable consideration, we, George Phillip Vlasuk of 7325 Calle Luna, Carlsbad, California 92009; Patrick Eric Hugo Stanssens of Constant Permekelaan 48, B-9830 St-Martens-Latem, Belgium; Joris Hilda Lieven Messens of Saviolaan 34, 1700 Dilbeek, Belgium; Marc Josef Lauwereys of Wilgenstraat 2, B-9450 Haaltert, Belgium; Yves Rene Laroche of Rue Bernel 115, 1150 Bruxelles, Belgium; Laurent Stephane Jespers of Karel Van Lorreinen Laan 4, 3080 Tervuren, Belgium; Yannick Georges Jozef Gansemans of Zeeweg 32, 8480 Ichtegem, Belgium; Matthew Moyle of 3171 4th Street, Boulder, Colorado 80304 and Peter W. Bergum of 12906 Carmel Creek Road #6, San Diego, California 92130 hereby assign to CORVAS INTERNATIONAL, INC., a Delaware corporation having a place of business at 3030 Science Park Road, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent entitled **EXTRACTED** SERINE **PROTEASE** "NEMATODE **INHIBITORS** AND ANTICOAGULANT PROTEINS", filed on October 17, 1995, U.S. Serial No. 08/809,455, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

IN WITNESS WHEREOF, I , 1997.	nereto set my nand and sea	11 at	, this day of
		George Phillip	Vlasuk
State of	:		
Ss. County of	:		
On) whose name(s) is/are sub he/they executed the same ir ture(s) on the instrument the	ved to me on the oscribed to the was his/her/their aut	basis of satisfactory eithin instrument and horized capacity(ies),
WITNESS my	hand and official seal.		
		Signature of No	otary
IN WITNESS WHEREOF, I, 1997.	hereto set my hand and sea	l at	, this day of
		Patrick Eric Hu	go Stanssens
State of	: ss. :		
On) whose name(s) is/are sub he/they executed the same in ture(s) on the instrument the	proved to me on the pscribed to the we have his/her/their aut	e basis of satisfactory rithin instrument and horized capacity(ies),
WITNESS my	hand and official seal.		
		Signature of No	otary

IN WITNESS WHERE, 1997.	OF, I hereto set my hand and	i seal at	, this	day of
		Joris Hilda	Lieven Messen	·S
C C				
State of	: \$\$.			
County of				
Joris Hilda Lieven Mes evidence to be the pe acknowledged to me the and that by his/her/their	, 1997, before me, sens personally known to me rson(s) whose name(s) is/are at he/she/they executed the sale r signature(s) on the instrument red, executed the instrument.	or proved to me of subscribed to the me in his/her/their	on the basis of sa the within instru r authorized cap	atisfactory iment and pacity(ies),
WITNE	SS my hand and official seal.			
		Signature of	of Notary	
IN WITNESS WHERI, 1997.	EOF, I hereto set my hand an	d seal at	, this	day of
		Marc Josef	Lauwereys	
State of	:			
	SS.			
County of	:			
Marc Josef Lauwerey evidence to be the per acknowledged to me the and that by his/her/thei which the person(s) ac	, 1997, before me,, personally known to me or rson(s) whose name(s) is/ar at he/she/they executed the sar signature(s) on the instrumented, executed the instrument.	e proved to me or e subscribed to t me in his/her/thei nt the person(s), o	n the basis of sa he within instru r authorized cap	atisfactory ument and pacity(ies),
WITNE	SS my hand and official seal.			
		Signature of	of Notary	

Page 3 of 6 PATENT REEL: 9219 FRAME: 0428

IN WITNESS WHERE, 1997.	OF, I hereto set my hand and seal	at	, this	_ day o
		TV D T		
		Yves Rene Lal	Roche	
State of	: ss.			
County of				
On	, 1997, before me,		personally	appeared
his/her/their signature(person(s) acted, execut	executed the same in his/her/theirs) on the instrument the person(s), ted the instrument. SS my hand and official seal.	_	• •	•
WIII	bb my mana ana omena sear.			
		Signature of N	lotary	
IN WITNESS WHERE, 1997.	EOF, I hereto set my hand and seal	at	, this	_ day o
		Laurent Stepha	ane Jespers	
State of	:			
	SS.			
County of	;			
Laurent Stephane Jesp evidence to be the per acknowledged to me the and that by his/her/the	, 1997, before me,, rers personally known to me or properson(s) whose name(s) is/are subject the/she/they executed the same in signature(s) on the instrument the ted, executed the instrument.	oved to me on the scribed to the his/her/their au	within instrur thorized capa	isfactory nent and city(ies)
WITNE	SS my hand and official seal.			
		Signature of N	lotary	<u></u>

IN WITNESS WHEREOF, I hereto set my hand and seal, 1997.	at, this day of
	Yannick Georges Jozef Gansemans
State of : ss. County of :	
On, 1997, before me, appeared Yannick Georges Jozef Gansemans personally known of satisfactory evidence to be the person(s) whose nan instrument and acknowledged to me that he/she/they execute capacity(ies), and that by his/her/their signature(s) on the upon behalf of which the person(s) acted, executed the instance.	own to me or proved to me on the basis ne(s) is/are subscribed to the within ted the same in his/her/their authorized instrument the person(s), or the entity
WITNESS my hand and official seal.	
IN WITNESS WHEREOF, I hereto set my hand and seal a	Signature of Notary Thousand at Baks, CA, this 22 day of Matthew Moyle
State of <u>CALIFORNIA</u> ss. County of <u>VENTURA</u> :	
On <u>OT 22</u> , 1997, before me, <u>ANNET</u> Matthew Moyle personally known to me or proved to me of be the person(s) whose name(s) is/are subscribed to the wormen that he/she/they executed the same in his/her/their his/her/their signature(s) on the instrument the person(s), person(s) acted, executed the instrument.	on the basis of satisfactory evidence to within instrument and acknowledged to authorized capacity(ies), and that by
WITNESS my hand and official seal. Annette T. Chavez Comm. #1141092 NOTARY PUBLIC - CALIFORNIA D VENTURA COUNTY Comm. Exp. June 23, 2001	in Atte J. Chavez Signature of Notary

			216/270-PCT Patent
IN WITNESS WHEREOF	F. I hereto set my hand and	seal at	, this day of
		Peter W. Bergu	ım
State of	:		
County of	SS.		
Peter W. Bergum personal to be the person(s) whose to me that he/she/they ex	, 1997, before me, lly known to me or proved to name(s) is/are subscribed to ecuted the same in his/her/son the instrument the person the instrument.	to me on the basis of the within instrumentheir authorized capa	f satisfactory evidence ent and acknowledged acity(ies), and that by
WITNESS	my hand and official seal.		

SSSD/57953. v01

For valuable consideration, we, George Phillip Vlasuk of 7325 Calle Luna, Carlsbad, California 92009; Patrick Eric Hugo Stanssens of Constant Permekelaan 48, B-9830 St-Martens-Latem, Belgium; Joris Hilda Lieven Messens of Saviolaan 34. 1700 Dilbeek, Belgium; Marc Josef Lauwereys of Wilgenstraat 2, B-9450 Haaltert, Belgium; Yves Rene Laroche of Rue Bemel 115, 1150 Bruxelles, Belgium; Laurent Stephane Jespers of Karel Van Lorreinen Laan 4, 3080 Tervuren, Belgium; Yannick Georges Jozef Gansemans of Zeeweg 32, 8480 Ichtegem, Belgium; Matthew Moyle of 3171 4th Street, Boulder, Colorado 80304 and Peter W. Bergum of 12906 Carmel Creek Road #6, San Diego, California 92130 hereby assign to CORVAS INTERNATIONAL, INC., a Delaware corporation having a place of business at 3030 Science Park Road, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent entitled "NEMATODE **EXTRACTED SERINE PROTEASE INHIBITORS** AND ANTICOAGULANT PROTEINS", filed on October 17, 1995, U.S. Serial No. 08/809,455, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

IN WITNESS WHEREOF, I hereto set my hand and se October, 1997.	al at San Dieso, this 20 day of Sally Vice Corge Phillip Vlasuk		
State of <u>CALIFORNY</u> :			
State of <u>CALIFORNY</u> : SS. County of <u>Sam Dieso</u> :			
On <u>Cetober 20</u> , 1997, before me, <u>Linda K. Knieht</u> personally appeared <u>George Phillip Vlasuk</u> personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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.			
UNDA K. KNIGHT COMM. # 1048245 Notary Public — California SAN DIEGO COUNTY My Comm. Expires DEC 26, 1998	Zuita Z. Knight Signature of Notary		
IN WITNESS WHEREOF, I hereto set my hand and sea, 1997.	at, this day of		
	Patrick Eric Hugo Stanssens		
State of : ss. County of :			
On, 1997, before me,	proved to me on the basis of satisfactory bscribed to the within instrument and n his/her/their authorized capacity(ies),		
WITNESS my hand and official seal.			
	Signature of Notary		

IN WITNESS WHER, 1997.	EOF, I hereto set my hand an	d seal at	, this	day of
		Joris Hilda L	Lieven Messens	
State of	:			
	SS.			
County of	_ :			
Joris Hilda Lieven Me evidence to be the p acknowledged to me that by his/her/the	, 1997, before me, essens personally known to me erson(s) whose name(s) is/ar that he/she/they executed the sa eir signature(s) on the instrument.	or proved to me on re subscribed to the time in his/her/their a nt the person(s), or t	the basis of sa within instru- authorized capa	ntisfactory ment and acity(ies),
WITNI	ESS my hand and official seal			
		Signature of	Notary	
IN WITNESS WHER, 1997.	EOF, I hereto set my hand ar	nd seal at	, this	day of
		Marc Josef L	Lauwereys	
State of	:			
	SS.			
County of	_ :			
Marc Josef Lauwerey evidence to be the p acknowledged to me that and that by his/her/the which the person(s) ac	, 1997, before me,, 1997, before me,, 2s personally known to me of erson(s) whose name(s) is/ar that he/she/they executed the satisficial seal executed the instrument.	r proved to me on the subscribed to the time in his/her/their and the person(s), or the subscribed to the person(s).	the basis of sa within instru authorized capa	tisfactory ment and acity(ies),
	y y		Notomy	<u></u>
		Signature of	ΙΝΟΙΑΓΥ	

IN WITNESS WHERE, 1997.	OF, I hereto set my hand and seal	at	, this	_ day o
		Yves Rene Lal	Roche	
State of	: SS.			
County of				
	, 1997, before me,			
to me that he/she/they	ose name(s) is/are subscribed to the executed the same in his/her/their s) on the instrument the person(s), ed the instrument.	r authorized cap	acity(ies), and	d that by
WITNES	SS my hand and official seal.			
		Signature of N	otary	_
IN WITNESS WHERE, 1997.	OF, I hereto set my hand and seal	at	, this	_ day of
		Laurent Stepha	ane Jespers	_
State of	: SS.			
County of	:			
Laurent Stephane Jespe evidence to be the per acknowledged to me that and that by his/her/their	ers personally known to me or processon(s) whose name(s) is/are subset he/she/they executed the same in signature(s) on the instrument the ed, executed the instrument.	scribed to the v his/her/their au	within instrun thorized capac	isfactory nent and city(ies),
WITNES	SS my hand and official seal.			
		Signature of N	otarv	

IN WITNESS WHEREC	F, I hereto set my hand and sea	al at	, this	day of
		Yannick Geo	orges Jozef Ga	nsemans
State of	:			
County of	SS.			
On	, 1997, before me	,	1	personally
capacity(ies), and that by upon behalf of which the	liged to me that he/she/they executive his/her/their signature(s) on the person(s) acted, executed the in my hand and official seal.	instrument the	n his/her/their a	the entity
	·	Signature of	Notary	
IN WITNESS WHEREO, 1997.	F, I hereto set my hand and seal	at	, this	day of
		Matthew Mo	oyle	
State of	:			
County of	SS.			
•	•			
On	, 1997, before me,	.1 1	personally	appeared
be the person(s) whose name that he/she/they executed	y known to me or proved to me ame(s) is/are subscribed to the voteted the same in his/her/their on the instrument the person(s), the instrument.	within instrume authorized ca	ent and acknow pacity(ies), and	ledged to
WITNESS	my hand and official seal.			
		Signature of	Notary	

IN WITNESS WHEREOF, I hereto set my hand and seal at San Diego, this 20 day of October, 1997.

Peter W. Bergum

State of CALIFORNIA

County of San Dieso

On October 20, 1997, before me, Linda K. Knibut personally appeared Peter W. Bergum personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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.

WITNESS my hand and official seal.

SS.

LINDA K. KNIGHT
COMM. # 1048245
Notary Public — California
SAN DIEGO COUNTY
My Comm. Expires DEC 26, 1998

For valuable consideration, we, George Phillip Vlasuk of 7325 Calle Luna, Carlsbad, California 92009; Patrick Eric Hugo Stanssens of Constant Permekelaan 48, B-9830 St-Martens-Latem, Belgium; Joris Hilda Lieven Messens of Saviolaan 34, 1700 Dilbeek, Belgium: Marc Josef Lauwereys of Wilgenstraat 2, B-9450 Haaltert, Belgium; Yves Rene Laroche of Rue Bernel 115, 1150 Bruxelles, Belgium; Laurent Stephane Jespers of Karel Van Lorreinen Laan 4, 3080 Tervuren, Belgium; Yannick Georges Jozef Gansemans of Zeeweg 32, 8480 Ichtegem, Belgium; Matthew Moyle of 3171 4th Street, Boulder, Colorado 80304 and Peter W. Bergum of 12906 Carmel Creek Road #6, San Diego, California 92130 hereby assign to CORVAS INTERNATIONAL, INC., a Delaware corporation having a place of business at 3030 Science Park Road, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent entitled **EXTRACTED** SERINE **PROTEASE INHIBITORS** "NEMATODE AND ANTICOAGULANT PROTEINS", filed on October 17, 1995, U.S. Serial No. 08/809,455, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

Page 1 of 6

PATENT REEL: 9219 FRAME: 0438

IN WITNESS WHEREOF,, 1997.	I hereto set my hand and s	eal at	, this	_ day of
		George Phill	lip Vlasuk	-
State of	:			
SS.				
County of	:			
On	s) whose name(s) is/are s she/they executed the same ature(s) on the instrument t	oved to me on ubscribed to the in his/her/their a	the basis of satise within instrumental wathorized capacitions.	sfactory ent and ity(ies),
WITNESS my	y hand and official seal.			
		Signature of	Notary	-
IN WITNESS WHEREOF, I	I hereto set my hand and so	eal at	, this	day of
		Patrick Eric	Hugo Stanssens	-
State of	:			
County of	\$\$. :			
Patrick Eric Hugo Stanssens evidence to be the person(s acknowledged to me that he/s and that by his/her/their signa which the person(s) acted, expenses the standard process of the person of the per	s) whose name(s) is/are s she/they executed the same ature(s) on the instrument the executed the instrument.	proved to me on ubscribed to the in his/her/their a	the basis of satis within instrume authorized capaci	sfactory ent and ity(ies),
WITNESS my	hand and official seal.			_
		Signature of	Notary	-

IN WITNESS WHEREOF, I hereto set my hand and seal October., 1997.	at Brune b, Believen this Lot day of Oct 0 1 1997 Joris Hilda Lieven Messens
State of : : : : : : : : : : : : : : :	FOOTS THROUGH WESSERS
County of STATES OF AMERICA :	
On October 1, 1997, before me, Lyane Joris Hilda Lieven Messens personally known to me or proevidence to be the person(s) whose name(s) is/abc subsacknowledged to me that he/she/they executed the same in and that by his/her/their signature(s) on the instrument the which the person(s) acted, executed the instrument.	oved to me on the basis of satisfactory scribed to the within instrument and his/Mer/Mair authorized capacity(ies),
WITNESS my hand and official seal.	Signature of Notary
Commission expiration date: not applicable	Lynne Skeirik Consul of the United States of America
IN WITNESS WHEREOF, I hereto set my hand and seal, 1997.	at, this day of
	Marc Josef Lauwereys
State of : ss.	
County of :	
On, 1997, before me, Marc Josef Lauwereys personally known to me or provevidence to be the person(s) whose name(s) is/are sub-acknowledged to me that he/she/they executed the same in and that by his/her/their signature(s) on the instrument the which the person(s) acted, executed the instrument.	ed to me on the basis of satisfactory scribed to the within instrument and his/her/their authorized capacity(ies),
WITNESS my hand and official seal.	
	Signature of Notary

IN WITNESS WHEREOF, 1997.	, I hereto set my hand and seal	at	, this	day of
		Yves Rene L	aRoche	
State of	:			
	SS.			
County of	:			
On	, 1997, before me,		personally	appeared
Yves Rene LaRoche person	ally known to me or proved to	me on the basis	of satisfactor	y evidence
to me that he/she/they exe	name(s) is/are subscribed to the cuted the same in his/her/their the instrument the person(s), the instrument.	r authorized ca	ipacity(ies), a	nd that by
WITNESS n	ny hand and official seal.			
		Signature of	Notary	
IN WITNESS WHEREOF,, 1997.	I hereto set my hand and seal	at	, this	day of
		Laurent Stepl	nane Jespers	-
State of	•			
out or	SS.			
County of	:			
Laurent Stephane Jespers pevidence to be the person acknowledged to me that he	, 1997, before me, personally known to me or pro- (s) whose name(s) is/are sub /she/they executed the same in nature(s) on the instrument the	oved to me on t scribed to the his/her/their a	the basis of sa within instru uthorized capa	tisfactory ment and acity(ies),
which the person(s) acted,			J 1	
WITNESS n	ny hand and official seal.			
WIINESS II	ly hand and official scal.			

IN WITNESS WHERE, 1997.	OF, I hereto set my hand and seal at _	, this day of
	Ya	nnick Georges Jozef Gansemans
State of	:	
County of	SS. :	
On	, 1997, before me,	personally
instrument and acknowled capacity(ies), and that be	e to be the person(s) whose name(s) edged to me that he/she/they executed to y his/her/their signature(s) on the instruction acted, executed the instruction of the person(s) acted, executed the instruction of the person of the	he same in his/her/their authorized rument the person(s), or the entity
WITNES	SS my hand and official seal.	
	Sig	nature of Notary
, 1997.	OF, I hereto set my hand and seal at	, this day of
	Ma	atthew Moyle
State of	: SS.	
County of	:	
Matthew Moyle persona be the person(s) whose me that he/she/they ex	, 1997, before me,, lly known to me or proved to me on the name(s) is/are subscribed to the within ecuted the same in his/her/their author on the instrument the person(s), or the details the instrument.	ne basis of satisfactory evidence to in instrument and acknowledged to norized capacity(ies), and that by
WITNES	SS my hand and official seal.	
	Sig	nature of Notary

			216/2	270-PCT Patent
IN WITNESS WHERE , 1997.	OF, I hereto set my hand and	seal at	, this	_ day of
		Peter W. Ber	rgum	
State of	:			
	SS.			
County of	:			
On	, 1997, before me,		personally a	ppeared
Peter W. Bergum perso	nally known to me or proved t	o me on the basis	of satisfactory 6	evidence
o be the person(s) who	ose name(s) is/are subscribed to	the within instru	ment and ackno	wledged
o me that he/she/they	executed the same in his/her/t	heir authorized ca	apacity(ies), and	that by
nis/her/their signature(s	s) on the instrument the person	(s), or the entity u	pon behalf of w	hich the
person(s) acted, execut	ed the instrument.			
WITNE:	SS my hand and official seal.			
WITNE	SS my hand and official seal.			

For valuable consideration, we, George Phillip Vlasuk of 7325 Calle Luna. Carlsbad, California 92009; Patrick Eric Hugo Stanssens of Constant Permekelaan 48, B-9830 St-Martens-Latem, Belgium; Joris Hilda Lieven Messens of Saviolaan 34, 1700 Dilbeek, Belgium; Marc Josef Lauwereys of Wilgenstraat 2, B-9450 Haaltert, Belgium; Yves Rene Laroche of Rue Bemel 115, 1150 Bruxelles, Belgium; Laurent Stephane Jespers of Karel Van Lorreinen Laan 4, 3080 Tervuren, Belgium: Yannick Georges Jozef Gansemans of Zeeweg 32, 8480 Ichtegem. Belgium; Matthew Moyle of 3171 4th Street, Boulder. Colorado 80304 and Peter W. Bergum of 12906 Carmel Creek Road #6, San Diego, California 92130 hereby assign to CORVAS INTERNATIONAL, INC., a Delaware corporation having a place of business at 3030 Science Park Road, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent entitled "NEMATODE EXTRACTED SERINE PROTEASE **INHIBITORS** AND ANTICOAGULANT PROTEINS", filed on October 17, 1995, U.S. Serial No. 08/809,455, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications. assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

Page 1 of 6

SSSD/57953. v01

PATENT REEL: 9219 FRAME: 0444

IN WITNESS WHEREOF, I hereto set my hand and s, 1997.	seal at	, this	_ day of
	George Philli	in Vlacuk	
	George Tillin	ip viasuk	
State of :			
SS.			
County of :			
On	roved to me on to subscribed to the in his/her/their a	he basis of sat within instrur authorized capa	isfactory nent and city(ies),
WITNESS my hand and official seal.			
	Signature of 1	Notary	
IN WITNESS WHEREOF, I hereto set my hand and s	(EP 2 9 1997
	Patrick Eric I	Hugo Stanssens	}
State of	fleme	m .	_
County of :			
On Sept. 29, 1997, before me, Rhow Patrick Eric Hugo Stanssens personally known to me of evidence to be the person(s) whose name(s) is/ate s acknowledged to me that he/she/they executed the same and that by his/har/thear signature(s) on the instrument t which the person(s) acted, executed the instrument.	r proved to me on ubscribed to the in his/ber/theer a	the basis of sat within instrum uthorized capa	isfactory nent and city(ies),
WITNESS my hand and official seal.	Signature of 1	Sca Sull	lation
Commission expiration date; not applicable	RHON	DA WATSON CONSUL TATES OF AMERIC	ĈA

SSSD/57953. v01

Page 2 of 6 PATENT

IN WITNESS WHEREC	OF, I hereto set my hand and	seal at, this day
, 2577.		
		Joris Hilda Lieven Messens
State of	· · · · · · · · · · · · · · · · · · ·	
	SS.	
County of	:	
Joris Hilda Lieven Messe evidence to be the pers acknowledged to me that and that by his/her/their	ens personally known to me of son(s) whose name(s) is/are he/she/they executed the sam	personally appear r proved to me on the basis of satisfactor subscribed to the within instrument a e in his/her/their authorized capacity(iethe person(s), or the entity upon behalf
WITNES	S my hand and official seal.	
		Signature of Notary
IN WITNESS WHEREO	OF, I hereto set my hand and	seal at, this day
		Marc Josef Lauwereys
State of	:	
	SS.	
County of	:	
On	, 1997, before me,	personally appear
evidence to be the persacknowledged to me that and that by his/her/their	son(s) whose name(s) is/are he/she/they executed the sam	proved to me on the basis of satisfactors subscribed to the within instrument are in his/her/their authorized capacity(iest the person(s), or the entity upon behalf
WITNES	S my hand and official seal.	
		Signature of Notary

Page 3 of 6 PATENT REEL: 9219 FRAME: 0446

, 1997.	OF, I hereto set my hand and seal at	, this day o
	Yves Re	ne LaRoche
State of	:	
	SS.	
County of	:	
On	, 1997, before me,	personally appeare
to be the person(s) who to me that he/she/they	rsonally known to me or proved to me on the lose name(s) is/are subscribed to the within in executed the same in his/her/their authorizes) on the instrument the person(s), or the entitled the instrument.	nstrument and acknowledged capacity(ies), and that b
-	SS my hand and official seal.	
	Signature	e of Notary
, 1997.	OF, I hereto set my hand and seal at	•
	Laurent S	Stephane Jespers
State of	:	
	: ss.	
County of	:	personally appeare
On		on the basis of satisfactor the within instrument an heir authorized capacity(ies)
Laurent Stephane Jespe evidence to be the pe acknowledged to me the and that by his/her/their which the person(s) act		on the basis of satisfactor the within instrument and eir authorized capacity(ies)

IN WITNESS WHEREOF, I hereto set my hand a, 1997.	nd seal at, this day of
	Yannick Georges Jozef Gansemans
State of :	
County of	
On	ose name(s) is/are subscribed to the within executed the same in his/her/their authorized on the instrument the person(s), or the entity
WITNESS my hand and official sea	1.
	Signature of Notary
IN WITNESS WHEREOF, I hereto set my hand ar, 1997.	nd seal at, this day of
	Matthew Moyle
State of : ss. County of :	
On, 1997, before me,	o the within instrument and acknowledged to r/their authorized capacity(ies), and that by
WITNESS my hand and official sea	1.
	Signature of Notary

			216/	270-PCT Patent
IN WITNESS WHEREC	OF, I hereto set my hand and	seal at	, this	day of
		Peter W. Be	ergum	
State of	:			
County of	SS.			
Peter W. Bergum person to be the person(s) whose to me that he/she/they expressions.	, 1997, before me,, ally known to me or proved to the name(s) is/are subscribed to executed the same in his/her/on the instrument the person d the instrument.	to me on the basis o the within instru their authorized c	s of satisfactory ument and acknow capacity(ies), and	evidence owledged d that by
WITNES	S my hand and official seal.			

For valuable consideration, we, George Phillip Vlasuk of 7325 Calle Luna, Carlsbad, California 92009; Patrick Eric Hugo Stanssens of Constant Permekelaan 48, B-9830 St-Martens-Latem, Belgium; Joris Hilda Lieven Messens of Saviolaan 34, 1700 Dilbeek. Belgium: Marc Josef Lauwereys of Wilgenstraat 2, B-9450 Haaltert, Belgium; Yves Rene Laroche of Rue Bernel 115, 1150 Bruxelles, Belgium; Laurent Stephane Jespers of Karel Van Lorreinen Laan 4, 3080 Tervuren, Belgium; Yannick Georges Jozef Gansemans of Zeeweg 32, 8480 Ichtegem, Belgium; Matthew Moyle of 3171 4th Street, Boulder, Colorado 80304 and Peter W. Bergum of 12906 Carmel Creek Road #6, San Diego, California 92130 hereby assign to CORVAS INTERNATIONAL, INC., a Delaware corporation having a place of business at 3030 Science Park Road, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent entitled **EXTRACTED SERINE PROTEASE INHIBITORS** "NEMATODE AND ANTICOAGULANT PROTEINS", filed on October 17, 1995, U.S. Serial No. 08/809,455, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications. assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

SSSD/57953. v01

IN WITNESS WHEREOF, 1997.	I hereto set my hand and s	eal at	, this	day of
		George Ph	illip Vlasuk	
State of	:			
County of	:			
George Phillip Vlasuk pers evidence to be the person(s) whose name(s) is/are s	oved to me or ubscribed to t	n the basis of sa he within instru	tisfactory ment and
acknowledged to me that he/ and that by his/her/their sign which the person(s) acted, e	ature(s) on the instrument t			
WITNESS m	y hand and official seal.			
		Signature of	of Notary	
IN WITNESS WHEREOF, 1997.	I hereto set my hand and so	eal at	, this	day of
		Patrick Eri	c Hugo Stanssen	 s
State of	: SS. :			
On	s) whose name(s) is/are s she/they executed the same ature(s) on the instrument the	proved to me ubscribed to t in his/her/thei	on the basis of sa he within instrum r authorized capa	tisfactory ment and acity(ies),
WITNESS my	y hand and official seal.			
		Signature of	of Notary	

1997.	I hereto set my hand and seal	at	day o
		Joris Hilda Liev	ven Messens
State of	:		
C	SS.		
County of	;		
Joris Hilda Lieven Messens evidence to be the person acknowledged to me that he	, 1997, before me, personally known to me or pro (s) whose name(s) is/are sub (she/they executed the same in nature(s) on the instrument the executed the instrument.	oved to me on the scribed to the w his/her/their aut	e basis of satisfactor within instrument and horized capacity(ies)
WITNESS m	y hand and official seal.		
		Signature of No	otary
IN WITNESS WHEREOF,, 1997.	I hereto set my hand and sea	at	, this day o
		Marc Josef Lau	wereys
State of	:		
	SS.		
County of	:		
Marc Josef Lauwereys per evidence to be the person acknowledged to me that he and that by his/her/their sign which the person(s) acted, e		red to me on the scribed to the w his/her/their aut	basis of satisfactor vithin instrument and horized capacity(ies)
WITNESS m	y hand and official seal.		
		Signature of No	otary

IN WITNESS WHEREC	OF, I hereto set my hand and s	seal at	, this	_ day of
		Yves Rene LaRoche		
State of	:			
County of	ss. :			
Yves Rene LaRoche pers to be the person(s) whose to me that he/she/they	, 1997. before me,, sonally known to me or proved se name(s) is/are subscribed the executed the same in his/her/on the instrument the person difference of the instrument.	to me on the base o the within instruction their authorized of	is of satisfactory ament and ackno capacity(ies), and	evidence wledged I that by
WITNES	S my hand and official seal.			
		Signature of	Notary	
IN WITNESS WHEREO <u>Oct -</u> , 1997.	OF, I hereto set my hand and s	Ger	this 14#	OCT 1 4 1997
State of MINGDOM OF BEIGEM CITY OF BRUSSELS EMPLASSY OF THE UNITED STATES OF AMERICA	}			
On Loc 14 Laurent Stephane Jesper evidence to be the pers acknowledged to me that and that by his/ber/their which the person(s) acte	1997, before me, 2 exs personally known to me or son(s) whose name(s) is/axe he/she/they executed the same signature(s) on the instrument ed, executed the instrument. S my hand and official seal.	proved to me on subscribed to the in his/ber/their	the basis of sati e within instrum authorized capace the entity upon b	isfactory nent and city(ies),
Commiss date : n	or abhlicapia Ion expiration	Ted Gens	Halsfead Ut of the OS of America	

216/270-PCT
Patent

IN WITNESS WHERE, 1997.	OF, I hereto set my hånd :	and seal at	, this day of
		Yannick G	eorges Jozef Gansemans
State of	:		
County of	SS.		
On	, 1997, bef	ore me,	personally
capacity(ies), and that b upon behalf of which th	edged to me that he/she/the y his/her/their signature(s) he person(s) acted, execute SS my hand and official se	on the instrument ted the instrument.	
	•	Signature of	of Notary
, 1997.	·		
		Matthew M	l oyle
State of	:		
County of	ss. :		
On	, 1997, before me, _		personally appeared
Matthew Moyle personate be the person(s) whose me that he/she/they ex	ally known to me or proved name(s) is/are subscribed secuted the same in his/has so on the instrument the pe	to me on the basis of to the within instrur er/their authorized of	of satisfactory evidence to ment and acknowledged to capacity(ies), and that by
WITNE	SS my hand and official se	al.	
		Signature of	of Notary

IN WITNESS WHEREOF.	I hereto set my hand and se	al at	, this day of
		Peter W. Berg	gum
State of	:		
County of	SS. :		
Peter W. Bergum personall to be the person(s) whose it to me that he/she/they exe	y known to me or proved to name(s) is/are subscribed to to cuted the same in his/her/then the instrument the person(she instrument.	me on the basis of the within instrun- eir authorized cap	of satisfactory evidence ment and acknowledged pacity(ies), and that by
WITNESS n	ny hand and official seal.		
		Signature of N	Notary

ASSIGNMENT

For valuable consideration, we, George Phillip Vlasuk of 7325 Calle Luna, Carlsbad, California 92009; Patrick Eric Hugo Stanssens of Constant Permekelaan 48, B-9830 St-Martens-Latem, Belgium: Joris Hilda Lieven Messens of Saviolaan 34, 1700 Dilbeek, Belgium: Marc Josef Lauwereys of Wilgenstraat 2, B-9450 Haaltert, Belgium; Yves Rene Laroche of Rue Bemel 115, 1150 Bruxelles, Belgium; Laurent Stephane Jespers of Karel Van Lorreinen Laan 4, 3080 Tervuren, Belgium; Yannick Georges Jozef Gansemans of Zeeweg 32, 8480 Ichtegem, Belgium; Matthew Moyle of 3171 4th Street, Boulder, Colorado 80304 and Peter W. Bergum of 12906 Carmel Creek Road #6, San Diego, California 92130 hereby assign to CORVAS INTERNATIONAL, INC., a Delaware corporation having a place of business at 3030 Science Park Road, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent entitled SERINE **PROTEASE** "NEMATODE **EXTRACTED INHIBITORS** AND ANTICOAGULANT PROTEINS", filed on October 17, 1995, U.S. Serial No. 08/809,455, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal, 1997.	at	, this	_ day o
			
	George Phillip	Vlasuk	
State of :			
Ss. County of :			
On	ed to me on the scribed to the v his/her/their aut	e basis of sat within instrun thorized capac	isfactory nent and city(ies)
WITNESS my hand and official seal.			
	Signature of No	otary	_
IN WITNESS WHEREOF, I hereto set my hand and seal, 1997.	at	, this	_ day of
	Patrick Eric Hu	ıgo Stanssens	
State of : ss.			
County of :			
On	oved to me on the corribed to the whis/her/their aut	ne basis of sat vithin instrun thorized capac	isfactory nent and city(ies),
WITNESS my hand and official seal.			
	Signature of No	otary	_

IN WITNESS WHER. , 1997.	EOF, I hereto set my hand and	seal at, this day of
		Joris Hilda Lieven Messens
State of	:	
County of	SS.	
		personally appeare
evidence to be the peacknowledged to me the and that by his/her/the	erson(s) whose name(s) is/are nat he/she/they executed the same	r proved to me on the basis of satisfactor subscribed to the within instrument an ie in his/her/their authorized capacity(ies) the person(s), or the entity upon behalf of
WITN	ESS my hand and official seal.	
		Signature of Notary
IN WITNESS WHER , 1997.	EOF, I hereto set my hand and	seal at, this day o
		Marc Josef Lauwereys
State of	_ :	
County of	SS.	
On	, 1997, before me,	personally appeare
Marc Josef Lauwerey evidence to be the p- acknowledged to me the and that by his/her/the	s personally known to me or erson(s) whose name(s) is/are nat he/she/they executed the sam	proved to me on the basis of satisfactor subscribed to the within instrument an ie in his/her/their authorized capacity(ies) the person(s), or the entity upon behalf of
WITNE	ESS my hand and official seal.	
		Signature of Notary

, I hereto set my hand and seal at	,	this day of
,	Yves Rene LaRoch	ne
:		
SS.		
nally known to me or proved to me name(s) is/are subscribed to the ecuted the same in his/her/their a	e on the basis of sat within instrument a authorized capacity	tisfactory evidence and acknowledged y(ies), and that by
my hand and official seal.		
	Signature of Notar	 у
, I hereto set my hand and seal at	,	this day of
Ī	Laurent Stephane J	lespers
: SS.		
1007 hefore me	ne	arconally appeared
personally known to me or prove n(s) whose name(s) is/are subsc e/she/they executed the same in h	ed to me on the baribed to the within is/her/their author.	asis of satisfactory in instrument and ized capacity(ies),
my hand and official seal.		
-	Signature of Notary	 у
	: ss. :	ss.

IN WITNESS WHEREOF, I hereto set my hand and seal, 1997.	at Acutels, this 14 day of
OCT 1 4 1997	Van
(30)	V. J. C. J. J. G. G. J. J. J. G. G. J. J. J. G. G. J. J. G. J. G. J.
	Yaumick Georges Jozef Gansemans
State of KINGOOM OF BELGUAM CITY OF BRUSSELS EMBASSY OF THE UNITED SS. SS.	
County of States of AMERICA:	
On <u>Jet 14</u> , 1997, before me, appeared <u>Yannick Georges Jozef Gansemans</u> personally known of satisfactory evidence to be the person(s) whose name instrument and acknowledged to me that he/she/they execut capacity(ies), and that by his/her/their signature(a) on the input upon behalf of which the person(a) acted, executed the instrument	own to me or proved to me on the basis ne(s) is/are subscribed to the within ed the same in his/her/their authorized instrument the person(s), or the entity
WITNESS my hand and official seal.	Selleten
Commission expiration date in not applicable	Signature of Notary Ted Helshead Consul of the Unified States of America
IN WITNESS WHEREOF, I hereto set my hand and seal a, 1997.	tt, this day of
	Matthew Moyle
State of :	
County of :	
On, 1997, before me,	
Matthew Moyle personally known to me or proved to me of be the person(s) whose name(s) is/are subscribed to the word me that he/she/they executed the same in his/her/their signature(s) on the instrument the person(s), of person(s) acted, executed the instrument.	n the basis of satisfactory evidence to ithin instrument and acknowledged to authorized capacity(ies), and that by
WITNESS my hand and official seal.	

REEL: 9219 FRAME: 0460

			216/270-PCT Patent
IN WITNESS WHEREOF, 1997.	, I hereto set my hand and se	eal at	, this day of
		Peter W. E	Bergum
State of	:		
	SS.		
County of	:		
	, 1997, before me, y known to me or proved to		
	name(s) is/are subscribed to		•
* * *			-
•	ecuted the same in his/her/th		
<u> </u>	n the instrument the person(s	s), or the entity	upon benait of which the
person(s) acted, executed t	he instrument.		

WITNESS my hand and official seal.

Page 6 of 6

f 6 PATENT REEL: 9219 FRAME: 0461

Signature of Notary

SSSD/57953. v01

ASSIGNMENT

For valuable consideration, we, George Phillip Vlasuk of 7325 Calle Luna, Carlsbad, California 92009; Patrick Eric Hugo Stanssens of Constant Permekelaan 48, B-9830 St-Martens-Latem, Belgium; Joris Hilda Lieven Messens of Saviolaan 34,⁸1700 Dilbeek, Belgium; Marc Josef Lauwereys of Wilgenstraat 2, B-9450 Haaltert, Belgium; Yves Rene Laroche of Rue Bemel 115, 1150 Bruxelles, Belgium; Laurent Stephane Jespers of Karel Van Lorreinen Laan 4, 3080 Tervuren, Belgium; Yannick Georges Jozef Gansemans of Zeeweg 32, 8480 Ichtegem. Belgium; Matthew Moyle of 3171 4th Street, Boulder, Colorado 80304 and Peter W. Bergum of 12906 Carmel Creek Road #6. San Diego, California 92130 hereby assign to CORVAS INTERNATIONAL, INC., a Delaware corporation having a place of business at 3030 Science Park Road, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent entitled SERINE PROTEASE "NEMATODE **EXTRACTED INHIBITORS** AND ANTICOAGULANT PROTEINS", filed on October 17, 1995, U.S. Serial No. 08/809,455, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns. without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

SSSD/57953. v01 Page 1 of 6

PATENT REEL: 9219 FRAME: 0462

IN WITNESS WHEREOF, I hereto set my hand and, 1997.	seal at	, this	day of
		· · · · · · · · · · · · · · · · · · ·	
	George Ph	nillip Vlasuk	
State of :			
Ss. County of :			
On	proved to me of subscribed to e in his/her/the	on the basis of sat the within instrum ir authorized capa	risfactory ment and city(ies),
WITNESS my hand and official seal.			
	Signature	of Notary	_
IN WITNESS WHEREOF, I hereto set my hand and s, 1997.	seal at	, this	_ day of
	Patrick Er	ic Hugo Stanssens	
State of :			
County of :			
On, 1997, before me,	or proved to me subscribed to e in his/her/the	on the basis of sat the within instrur ir authorized capa	tisfactory nent and city(ies),
WITNESS my hand and official seal.			
	Signature	of Notary	

, 1997.	REOF, I hereto set my hand and	seal at	, this	_ day of
		Joris Hilda Lie	even Messens	
State of	. :			
	SS.			
County of	_ :			
On	, 1997, before me,		personally	appeared
evidence to be the pucknowledged to me to and that by his/her/the	essens personally known to me of person(s) whose name(s) is/are that he/she/they executed the same eir signature(s) on the instrument cted, executed the instrument.	subscribed to the vne in his/her/their au	within instrun	nent and city(ies),
WITN	ESS my hand and official seal.			
		Signature of N	otarv	
<u>)ctoler</u> , 1997.		Marc Josef Lau	<u></u>	OCT 0 1 1
leate of			iwereys	
State of	EEGUM EELS SS. EELONTED SS.		iwereys	
On October Marc Josef Lauwerey evidence to be the packnowledged to me that by his/har/the	ss. 1997, before me, ys personally known to me or person(s) whose name(s) is/are hat he/she/they executed the sam signature(s) on the instrument cted, executed the instrument.	proved to me on the subscribed to the was in his/bor/the/r aut	_personally a basis of sativithin instrun horized capac	isfactory nent and city(ies),
On October On Lauwerey Vidence to be the p cknowledged to me the p nd that by his/her/the which the person(s) according to the person of	ys personally known to me or person(s) whose name(s) is/and that he/she/they executed the same signature(s) on the instrument	proved to me on the subscribed to the was in his/bor/the/r aut	_personally a basis of sativithin instrun horized capac	isfactory nent and city(ies),
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IN WITNESS WHEREOF, 1997.	I hereto set my hand and seal	at	, this	day of
		Yves Rene La	Roche	
State of	:			
County of	SS.			
County of	•			
	, 1997, before me,			
to be the person(s) whose n to me that he/she/they exec	ally known to me or proved to the ame(s) is/are subscribed to the cuted the same in his/her/their the instrument the person(s), he instrument.	within instrun authorized cap	nent and ackn pacity(ies), ar	owledged id that by
WITNESS m	y hand and official seal.			
		Signature of N	lotary	
IN WITNESS WHEREOF, 1997.	I hereto set my hand and seal a	at	, this	day of
		Laurent Steph	ane Jespers	_
State of	:			
	SS.			
County of	:			
evidence to be the person(acknowledged to me that he/	, 1997, before me, ersonally known to me or pro s) whose name(s) is/are subs she/they executed the same in lature(s) on the instrument the executed the instrument.	ved to me on the scribed to the his/her/their au	ne basis of sa within instrui ithorized capa	tisfactory ment and city(ies),
WITNESS m	y hand and official seal.			
		Signature of N	lotary	

IN WITNESS WHEREOF, 1997.	, I hereto set my hand and sea	l at	, this day of
		Yannick Georges	Jozef Gansemans
		C	
State of	:		
County of	SS.		
On	, 1997, before me,		personally
instrument and acknowledg capacity(ies), and that by h	to be the person(s) whose named to me that he/she/they executis/her/their signature(s) on the person(s) acted, executed the in	ited the same in his/h instrument the pers	ner/their authorized
WITNESS	my hand and official seal.		
		Signature of Notar	ry
IN WITNESS WHEREOF, 1997.	, I hereto set my hand and seal	at,	this day of
		Matthew Moyle	
State of	: SS.		
County of			
Matthew Moyle personally be the person(s) whose name that he/she/they execu	known to me or proved to me me(s) is/are subscribed to the valued the same in his/her/their in the instrument the person(s), the instrument.	on the basis of satist within instrument an authorized capacity	factory evidence to d acknowledged to r(ies), and that by
WITNESS	my hand and official seal.		
		Signature of Notar	ТУ

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IN WITNESS WHERE, 1997.	OF, I hereto set my hand and	i seal at	, this	day of
		Peter W. B	ergum	
State of				
County of	\$\$. :			
Peter W. Bergum person to be the person(s) who to me that he/she/they	nally known to me or proved see name(s) is/are subscribed executed the same in his/her on the instrument the perso ed the instrument.	to me on the basi to the within instr their authorized	s of satisfactory ument and ackn capacity(ies), ar	evidence lowledged and that by
WITNES	SS my hand and official seal.			
		Signature o	f Notary	

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