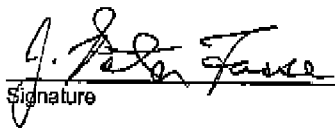


Substitute Form PTO-1595
Attorney Docket No.: 15702-004001

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1. Name of conveying party(ies): Victor Gurewich, John N. Williams, Jian-Ning Liu and Paolo Sarmientos Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Thrombolytic Science, Inc. c/o Victor Gurewich 11 Reservoir Street Cambridge, MA 02138 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: October 12, 2004	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 10/826,826 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: J. PETER FASSE Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>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.</i>	
J. Peter Fasse Reg. No. 32,983 Name of Person Signing	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  Signature </div> <div style="text-align: center;"> 12/20/2005 Date </div> </div>
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I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below:

12-20-05  Michelle George
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AMENDED AND RESTATED ASSIGNMENT

For valuable consideration, we, VICTOR GUREWICH of Cambridge, Massachusetts, JOHN N. WILLIAMS of Boston, Massachusetts, JIAN-NING LIU of Brighton, Massachusetts, PAOLO SARMIENTOS of Lecco, Italy, and MASSIMILIANO PAGANI of Castelli Calepio (Bergamo), Italy (collectively hereinafter called "the Assignors"), hereby assign to: Thrombolytic Science, Inc., a corporation of Delaware having a place of business at: c/o Fish & Richardson, P.C., 225 State Street, Boston, MA 02110; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest of Assignors throughout the world in the inventions and improvements which are the subject of the applications listed in Attachment A hereto; this assignment including said applications, any and all United States and foreign applications, patents, utility models, and design registrations, including continuation, divisional, continuation-in-part, reissue, and reexamination applications, filed or granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said applications 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, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective 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.

This Amended and Restated Assignment is dated and effective as of April 18, 2003, and supersedes and replaces any and all prior assignments from the Assignors to Assignee.

Attorney Docket No. 15702-003001 and -004001

IN WITNESS WHEREOF, I hereto set my hand and seal at Boston,
this 12th day of October, 2004.
[Signature] L.S.
VICTOR GUREWICH

State of Mass :
: ss.
County of Suffolk :

Before me this 12th day of October, 2004, personally appeared
VICTOR GUREWICH known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

[Signature]
Notary Public
My Commission Expires: 10/21/05

[Notary's Seal Here]

Attorney Docket No. 15702-003001 and -004001

IN WITNESS WHEREOF, I hereto set my hand and seal at Boston,
this 12th day of October, 2004
John N. Williams L.S.
JOHN N. WILLIAMS

State of Mass :
: ss.
County of Suffolk :

Before me this 12th day of October, 2004, personally appeared
JOHN N. WILLIAMS known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

Sydney C. Williams
Notary Public

My Commission Expires: 10/21/05

[Notary's Seal Here]

Attorney Docket No. 15702-003001 and -004001

IN WITNESS WHEREOF, I hereto set my hand and seal at Boston,
this 12th day of October, 2004
JIAN-NING LIU L.S.

State of Mass :
: ss.
County of Suffolk :

Before me this 12th day of October, 2004, personally appeared
JIAN-NING LIU known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

[Signature]
Notary Public

My Commission Expires: 10/21/05

[Notary's Seal Here]

Attorney Docket No. 15702-003001 and -004001

IN WITNESS WHEREOF, I hereto set my hand and seal at Boston,
this 12th day of October, 2004
[Signature] L.S.
PAOLO SARMIENTOS

State of Mass :
: ss.

County of Suffolk :

Before me this 12th day of October, 2004, personally appeared
PAOLO SARMIENTOS known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

[Signature]
Notary Public

My Commission Expires: 10/21/05

[Notary's Seal Here]

Attorney Docket No. 15702-003001 and -004001

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 2004

MASSIMILIANO PAGANI L.S.

Before me this _____ day of _____, 2004, personally appeared
MASSAMILIANO PAGANI known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

WITNESS

WITNESS

ATTACHMENT A

United States Provisional Patent Application entitled METHODS, DEVICES, AND COMPOSITIONS FOR LYSIS OF OCCLUSIVE BLOOD CLOTS WHILE SPARING WOUND SEALING CLOTS, filed on April 18, 2003, and assigned U.S. Serial Number 60/464,002.

United States Provisional Patent Application entitled METHODS, DEVICES, AND COMPOSITIONS FOR LYSIS OF OCCLUSIVE BLOOD CLOTS WHILE SPARING WOUND SEALING CLOTS, filed on April 18, 2003, and assigned U.S. Serial Number 60/464,003.

United States Provisional Patent Application entitled METHODS OF MAKING PRO-UKINASE MUTANTS, filed on April 18, 2003, and assigned U.S. Serial Number 60/463,930.

United States Patent Application entitled METHODS, DEVICES, AND COMPOSITIONS FOR LYSIS OF OCCLUSIVE BLOOD CLOTS WHILE SPARING WOUND SEALING CLOTS, filed on April 16, 2004, and assigned U.S. Serial Number 10/826,826.

United States Patent Application entitled METHODS OF MAKING PRO-UKINASE MUTANTS, filed on April 16, 2004, and assigned U.S. Serial Number 10/826,598.

International Patent Application entitled METHODS, DEVICES, AND COMPOSITIONS FOR LYSIS OF OCCLUSIVE BLOOD CLOTS WHILE SPARING WOUND SEALING CLOTS, filed on April 16, 2004, and assigned Serial Number PCT/US2004/011840.

Attorney's Docket No.: 15702-004001

OFFICIAL COMMUNICATION FACSIMILE**TO THE ATTENTION OF:****MAIL STOP ASSIGNMENT****MAIL STOP ASSIGNMENT FAX NO: 571/273-0140**

Number of pages including this page 9

Applicant : Victor Gurewich et al.
Serial No. : 10/826,826
Filed : April 16, 2004

Art Unit : 1653
Examiner : Rosanne Kosson

FACSIMILE COMMUNICATION

Title : METHODS, DEVICES, AND COMPOSITIONS FOR LYSIS OF OCCLUSIVE
BLOOD CLOTS WHILE SPARING WOUND SEALING CLOTS

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Alexandria, VA 22313-1450

Attached to this facsimile communication cover sheet is a Recordation Form Cover Sheet and Assignment, faxed this 20th day of December, 2005, to Mail Stop Assignment Recordation Services, U.S. Patent and Trademark Office.

Date: December 20, 2005

Respectfully submitted,



/s/ Peter Fasse
Reg. No. 32,983

PTO Customer No. 26161
Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110
Telephone: (617) 542-5070
Fax: (617) 542-8906

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