

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Oral Alpan	02/19/2003
Tirumalai Kamala	01/23/2003
Polly Matzinger	02/19/2003
RECEIVING PARTY DATA	
Name:	The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services
Street Address:	6011 Executive Boulevard
Internal Address:	National Institutes of Health, Office of Technology Transfer, Suite 325
City:	Rockville
State/Country:	MARYLAND
Postal Code:	20852
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11734489
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	4239-67792-02
NAME OF SUBMITTER:	Sheree Lynn Rybak, Ph.D.

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 REEL: 019981 FRAME: 0293

**Total Attachments: 3**

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**PATENT**

**REEL: 019981 FRAME: 0294**

### ASSIGNMENT

We, Oral Alpan, of 550 Rutgers Street, Rockville, Maryland 20850, a citizen Turkey, Tirumalai Kamala, of 5521 Alderbrook Court, #109, Rockville, Maryland 20851, a citizen of India, and Polly Matzinger, of 8906 Old Georgetown Road, Bethesda, Maryland 20892, a citizen of United States of America, employees of the Department of Health and Human Services, at the time the invention was made, are coinventors with William Hugold Velandar, of 3014 Lancaster Drive, Blacksburg, Virginia 24060, an employee of Virginia Tech, of an invention entitled ORAL TREATMENT OF HEMOPHILIA for which an application to the Commissioner for Patents for grant of Letters Patent of the United States of America has been executed by the undersigned

☒ on U.S. Provisional Patent Application No. 60/310,150, filed on August 3, 2001; and  
PCT Application No. PCT/US02/24544, filed on August 2, 2002;

The conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive order 10096, to our entire right, title, and interest herein, both domestic and foreign; and

The Government of the United States of America is desirous of acquiring all of our domestic and foreign right, title, and interest in the aforesaid invention described in the aforesaid application for Letters Patent of the United States of America; and

In consideration of the premises and other valuable consideration, we the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer unto The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter THE GOVERNMENT), and their successors, our full and exclusive right, title, and interest in the invention, patent application and patent rights throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file the invention described in the aforesaid application for Letters Patent of the United States of America, and all Letters Patents and Registrations which may be granted on the same in the United States of America and all countries throughout the world, and to claim the priority from the application as provided by United States Law and the Paris Convention, or of any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

AND, we hereby authorize and request the Commissioner for Patents to issue said Letters Patent to THE GOVERNMENT as assignee of our entire right, title, and interest in and to the same throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file, for the sole use for the full term or terms for which said Letters Patent and Registrations may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof which may be granted as fully and entirely as the same would have been held by us, had this assignment not been made;

AND, we hereby warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied with respect to the aforesaid application for Letters Patent which will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of this instrument by us;

AND, we hereby agree to execute any and all applications for Letters Patent in the United States of America and foreign countries, and to furnish and deliver to the Secretary, Department of Health and Human Services, upon request, all data and documents, and to execute any papers which may be necessary for the prosecution of any application or applications of Letters Patent or for THE GOVERNMENT to exercise its rights granted hereunder, including communicating to THE GOVERNMENT, its representatives or agents, any facts relating to said invention, including evidence for interference purposes, or for other proceedings, whenever requested, to testify in any interference or other proceedings, whenever requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon our heirs, legal representatives, administrators and assigns, and we shall assist THE GOVERNMENT in every way as

may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by THE GOVERNMENT.

We acknowledge that we have authorized THE GOVERNMENT to prepare, file and prosecute patent applications on this invention, and to select attorneys and agents of their choice for this purpose. We also grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 12/19/03

[Signature]  
Oral Alpan

STATE OF Maryland )  
COUNTY OF Montgomery ) ss.

This 19<sup>th</sup> day of February, 2003, before me personally came the above-named Oral Alpan, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

[Signature]  
Notary Public for \_\_\_\_\_  
My commission expires: JUSTINE NEBIRAKHASAMBA  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires June 28, 2005

[SEAL]

Dated: 01/23/2003

[Signature]  
Tirumalai Kamala

STATE OF Maryland )  
COUNTY OF Prince Georges ) ss.

This 23<sup>rd</sup> day of January, 2003, before me personally came the above-named Tirumalai Kamala, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein

[Signature]  
Notary Public for State of Maryland  
My commission expires:

[SEAL]

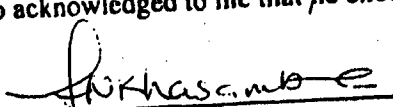
HILDA K. CHAMORRO  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires July 18, 2004

Dated: 12/19/03

  
Polly Matzinger

STATE OF Maryland )  
 ) ss.  
COUNTY OF Montgomery )

This 19<sup>th</sup> day of February, 2003, before me personally came the above-named Polly Matzinger, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

  
Notary Public for \_\_\_\_\_  
My commission expires:

JUSTINE NEBIRA-KHASAMBA  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires June 28, 2005

[SEAL]