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1. Total number of pages including cover sheet, attachments and document: 2**2. Name of Conveying Party(ies) and Execution Date(s) of Document(s)** ☐ Check here if additional name(s) attached

Name(s): William Hugold Velandar

Execution Date(s): March 3, 2003

3. Name and address of receiving party ☐ Check here if additional name(s) & address(es) are attached

Name Virginia Polytechnic Institute and State University

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City Blacksburg State/Country VA *10485696* Zip**4. Nature of Conveyance**☒ Assignment ☐ Merger ☐ Security Agreement ☐ Name Change ☐ Other:**5. Total number of applications and patents involved: 1****6. Total Fee Enclosed (37 C.F.R. § 3.41): \$40.00****7. ☒ Check here if any deficiency/overpayment is authorized to be charged to deposit account 02-4550****8. Enter either the Execution date (of the Declaration and Power of Attorney), Application Number, or the Patent Number. Do not enter more than one number for the same patent.**A. ☒ This document is being filed with a new application. Execution date is: August 23, 2002B. ☐ Patent Application No.(s) or Patent No.(s):☐ Check here if additional numbers are attached**9. Correspondent's name, address, and telephone number**

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10. ☒ Please return the attached postcard to confirm that these items have been received.**11. 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.*

Sheree Lynn Rybak, Ph.D.

Name of Person Signing

Signature

February 2, 2004

Date

ASSIGNMENT

WHEREAS, William Hugold Velandar, of Blacksburg, Virginia, (hereinafter referred to as ASSIGNOR), has invented certain new and useful improvements, with coinventors Oral Alpan and Tirumalai Kamala, both of Rockville, Maryland, and Polly Matzinger of Bethesda, Maryland, employees of the Department of Health and Human Services, of an invention entitled:

ORAL TREATMENT OF HEMOPHILIA

for which an application for United States Letters Patent Serial No. PCT/US02/24544 has been filed on August 2, 2002; and

WHEREAS, Virginia Polytechnic Institute and State University, (hereinafter referred to as ASSIGNEE), an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at Blacksburg, Virginia, is desirous of acquiring the entire right, title and interest in, to and under said application and said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt and sufficiency of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 3rd day of March, 2003.

Witnessed by:

Diana J. Lucas

William Hugold Velandar
William Hugold Velandar