

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JON O. RAYNER	06/16/2005
JONATHAN F. SMITH	07/25/2005
BOLYN HUBBY	07/19/2005
ELIZABETH A. REAP	07/08/2005
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<b>City:</b>	RESEARCH TRIANGLE PARK
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14229736
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<b>NAME OF SUBMITTER:</b>	SALLY A. SULLIVAN
<b>SIGNATURE:</b>	/sallyasullivan/
<b>DATE SIGNED:</b>	06/02/2015
<b>Total Attachments: 6</b>	
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**ASSIGNMENT**

WHEREAS, I, (each herein called "ASSIGNOR"),

*2001 Pylon Mountain Ct. JM 2-16-05*  
Jon O. Rayner, residing at ~~202 Tobacco Farm Lane~~, Apex, NC 27502, USA;  
Jonathan F. Smith, residing at 104 Bronzewood Court, Cary, NC 27511, USA;  
Bolyn Hubby (formerly Bolyn Fralish), residing at 1011 Village Crossing Drive, Chapel Hill, NC 27517 *1-11-2005*  
Elizabeth A. Reap, residing at 12 Swallows Ridge Court, Durham, NC 27713, USA;

am an inventor of the invention entitled "TC-83-Derived Alphavirus Vectors, Particles and Methods" for which I have filed applications in the United States Patent and Trademark Office:

U.S. Provisional Patent Application Number 60/572,212, filed on May 18, 2004; and

U.S. Nonprovisional Patent Application Number 11/132,711, filed on May 18, 2005; and

International Patent Application under the Patent Cooperation Treaty, designating all states, filed on May 18, 2005, Application No. PCT/US2005/017766;

AND WHEREAS, **Alphavax, Inc.**, (herein called "ASSIGNEE"), an entity organized and existing under the laws of the State of Delaware, having a principal place of business at **2 Triangle Park, P.O. Box 11307, Research Triangle Park, North Carolina 27709-0307**, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said applications;

NOW, THEREFORE, in consideration of my contractual and other legal obligations, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, a said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the said invention, and the said International Application and all national and regional applications and all divisions, renewals, continuations, continuations-in-part and subsequent applications thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in the United States or countries foreign to the United States; together with the right to file such applications and the right to claim for the same the priority of said U.S. Provisional Patent Application and said

International Patent Application and subsequent related applications as listed above under The International Union for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in the United States or any country foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY authorize the above-mentioned ASSIGNEE or its legal representative to insert in this instrument the filing date(s) and serial number(s) of said application(s) or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or the Patent Office of any other country for recordation of this document;

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all continuing and subsequent applications, including divisional, reissue and foreign applications, make all rightful oaths, and generally cooperate and do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain, maintain, and enforce proper protection for said invention in any and all countries;

IN TESTIMONY WHEREOF, I hereunto set my hand and seal (if applicable) the day and year set opposite my signature.







