

## 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>
Dongmei Xu	04/02/2014
Elisabeth Miller	04/10/2014
James Arthur Strickland	06/03/2014
Ujwala Warek	04/03/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALTRIA CLIENT SERVICES INC.
<b>Street Address:</b>	6601 WEST BROAD STREET
<b>City:</b>	RICHMOND
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	23230
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14205660
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
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<b>Phone:</b>	(612) 335-5070
<b>Email:</b>	apsi@fr.com
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<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
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<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	20210-0205001
<b>NAME OF SUBMITTER:</b>	JILL A. WRIGHT
<b>SIGNATURE:</b>	/Jill A. Wright/
<b>DATE SIGNED:</b>	07/28/2014
<b>Total Attachments: 3</b>	
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ASSIGNMENT

For valuable consideration, we, DONGMEI XU of 12192 Turning Branch Circle, Glen Allen, VA 23059, ELISABETH MILLER of 9112 Cascade Creek Ln, Chesterfield, VA 23832, JAMES ARTHUR STRICKLAND of 11804 Summer Stream Drive, Richmond, VA 23233 and UJWALA WAREK of 4700 Lippingham Drive, Chester, VA 23831, hereby assign to: Altria Client Services Inc., a corporation of New York having a place of business at: 6601 West Broad Street, Richmond, VA 23230; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled BACTERIOPHAGE AND METHODS OF MAKING AND USING, filed March 12, 2014, and assigned U.S. Serial Number 14/205,660, PCT Application Number PCT/US2014/024432 having an international filing date of March 12, 2014 and U.S. Provisional Application Number 61/791,976, filed on March 15, 2013, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations 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, 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.

Date: 4/2/2014

Dongmei Xu  
DONGMEI XU

Witnessed by:

Name: Marrie S. Watkins

Date: 4.2.14

Name: DBD

Date: 4-2-14

Date: 4/10/14

Elisabeth Miller  
ELISABETH MILLER

Witnessed by:

Name: Marrie S. Watkins

Date: 4-10-14

Name: DBD

Date: 4-10-14

Date: \_\_\_\_\_

\_\_\_\_\_  
JAMES ARTHUR STRICKLAND

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: 4/3/2014

Ujwala Warek  
UJWALA WAREK

Witnessed by:

Name: Marrie S. Watkins

Date: 4.3.14

Name: DBD

Date: 4-3-14

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Date: \_\_\_\_\_  
DONGMEI XU

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: \_\_\_\_\_  
ELISABETH MILLER

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: 3 June 2014  
  
JAMES ARTHUR STRICKLAND

Witnessed by:

Name:  Date: 3 June 2014

Name:  Date: 3 June 2014

Date: \_\_\_\_\_  
UJWALA WAREK

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

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