

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Roger Woodgate</td> <td>07/15/2005</td> </tr> <tr> <td>John P. McDonald</td> <td>07/15/2005</td> </tr> <tr> <td>Wei Yang</td> <td>07/15/2005</td> </tr> </tbody> </table>		Name	Execution Date	Roger Woodgate	07/15/2005	John P. McDonald	07/15/2005	Wei Yang	07/15/2005				
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>The Government of the United States of America as Represented by the Secretary of the Department of Health and Human Services</td> </tr> <tr> <td>Street Address:</td> <td>6011 Executive Blvd., Suite #325</td> </tr> <tr> <td>Internal Address:</td> <td>Office of Technology Transfer</td> </tr> <tr> <td>City:</td> <td>Rockville</td> </tr> <tr> <td>State/Country:</td> <td>MARYLAND</td> </tr> <tr> <td>Postal Code:</td> <td>20852-3804</td> </tr> </table>		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 Blvd., Suite #325	Internal Address:	Office of Technology Transfer	City:	Rockville	State/Country:	MARYLAND	Postal Code:	20852-3804
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CORRESPONDENCE DATA													
<p>Fax Number: (503)595-5301 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 503-595-5300</p> <p>Email: rosanne.paulson@klarquist.com</p> <p>Correspondent Name: Rosanne Paulson</p> <p>Address Line 1: 121 SW Salmon St.</p> <p>Address Line 2: Suite 1600</p> <p>Address Line 4: Portland, OREGON 97204</p>													
ATTORNEY DOCKET NUMBER:	4239-68532-08												
NAME OF SUBMITTER:	Michael D. Hammer, Ph.D.												

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PATENT
REEL: 022731 FRAME: 0578

Total Attachments: 3

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ASSIGNMENT

We, Roger Woodgate, of 1483 Selworthy Road, Rockville, MD 20854, a citizen of the United Kingdom, John P. McDonald, of 53 Steeple Court, Germantown, MD 20874, a citizen of the United States of America, and Wei Yang, of 1011 Heartfields Drive, Silver Spring, MD 20904, a citizen of the United States of America, have invented a certain invention entitled THERMOSTABLE Y-FAMILY POLYMERASES AND CHIMERAS for which the following patent applications have been filed:

U.S. Provisional Patent Application No. 60/573,684, filed on May 20, 2004;
U.S. Provisional Patent Application No. 60/623,490, filed on October 29, 2004; and
PCT Application No. PCT/US2005/017941, filed on May 20, 2005;

all of which applications are collectively referred to herein as "the patent applications."

We were employed by the Department of Health and Human Services at the time the invention was made. 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 the entire right, title, and interest in the invention, in the United States and all other countries throughout the world.

In consideration of our obligations under Executive Order 10096, and other valuable consideration, we the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer to 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 successors and assigns, the full and exclusive right, title, and interest in the patent applications and invention throughout the United States of America, its territories and dependencies, and all other countries. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof; and the right to claim priority from the patent applications as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

We authorize and request the issuance of said Letters Patent to THE GOVERNMENT as assignee of the entire right, title, and interest to be held as fully and entirely as the same would have been held by us had this assignment not been made.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment.

We also agree upon reasonable request to communicate to THE GOVERNMENT, its representatives, assigns or agents, any facts known to us respecting the invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent protection for the invention in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

We have authorized THE GOVERNMENT to file and prosecute the patent applications, as well as any corresponding international or national applications that claim priority from them. THE

GOVERNMENT has the right to select attorneys or agents of its choice to prosecute at its discretion the patent applications on its behalf.

We grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that 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: 7/15/05

Roger Woodgate
Roger Woodgate

STATE OF Maryland) ss.
COUNTY OF ne)

This 15th day of July, 2005, before me personally came the above-named Roger Woodgate, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Gita C. Shah
Notary Public for GITA C. SHAH
My commission expires NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires July 1, 2008

[SEAL]

Dated: 7/15/05

John P. McDonald
John P. McDonald

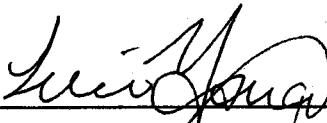
STATE OF Maryland) ss.
COUNTY OF ne)

This 15th day of July, 2005, before me personally came the above-named John P. McDonald, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

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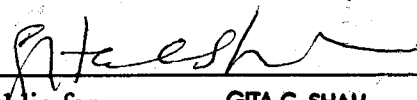
[SEAL]

Dated: July 15, 2005


Wei Yang

STATE OF Maryland)
COUNTY OF ne) ss.

This 15th day of July, 2005, before me personally came the above-named Wei Yang, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.


Notary Public for **GITA C. SHAH**
My commission expires **NOTARY PUBLIC STATE OF MARYLAND**
My Commission Expires July 1, 2008

[SEAL]