FORM PTO-1595 (Rev. 6/93)	08-17-1998	HEET	J.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Attorney Docket No. 600-1-192
To the Assistant Commission	100801276 her for Patents. Please record	ne anacies original doc	cuments or copy thereof.
1. Name of conveying party(ies):  Nathaniel Heintz  Additional name(s) of conveying party(ies) attache  3. Nature of conveyance:  [X] Assignment [] Security Agreement [] Other:  Execution Date: May 12, 1998	d? [] Yes [X] No  derger  Change of Name	lame: Howard E	receiving party(ies):  Mughes Medical Institute  Is Bridge Road  ase. Maryland 20815-6789  ss(es) attached? [] Yes [X] No
<ol> <li>Application number(s) or patent number(         If this document is being filed together w         A. Patent Application No.(s)         08/880,966     </li> </ol>	ith a new application, the exect	atent No.(s)	ition is:
	Additional numbers attached?	[] Yes [X] No	
<ol> <li>Name and address of party to whom corr document should be mailed:</li> <li>Name: <u>David A. Jackson, Esq.</u></li> <li>Address: <u>KLAUBER &amp; JACKSON</u></li> <li>411 Hackensack Avenue, 4th Floor</li> <li>Hackensack, New Jersey 07601</li> </ol>	7. 7. 1 [ 8. E	otal fee (37 CFR 3.41)  [All Enclosed of Authorized to be chard overages or underpare posit account number 1-1153	arged to deposit account, if necessary - yments only
	DO NOT USE THIS		and the second of the second o
9. Statement and signature.  To the best of my knowledge and belief, the for  Michael D. Davis, Reg. No. 39,161  Name of Person Signing		of American Street Contract Co	is a true copy of the original document.  915 198  Date

Mail documents to be recorded with required cover sheet information to

Assistant Commissioner For Patents Box Assignments Washington, D.C. 20231

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Total number of pages including cover sheet, attachments, and document: 3

## **ASSIGNMENT**

Assignment made May 12..., 1998, by Nathaniel Heintz, Ph.D., a citizen of the United States residing at 441 Fowler Avenue, Pelham Manor, New York 10803 ("Inventor") to the Howard Hughes Medical Institute, a Delaware corporation, having a prinicpal business address at 4000 Jones Bridge Road, Chevy Chase, MD 20815-6789 (the "Institute").

## Recitals

WHEREAS, Inventor is an employee of the Institute and, as a condition of his employment, has signed the Agreement appended to the Institute's Statement of Policy on Intellectual Property (the "Intellectual Property Agreement");

WHEREAS, pursuant to the Intellectual Property Agreement, Inventor has agreed (a) to assign to the Institute all rights he may acquire in any invention, discovery, improvement, or other intellectual property, whether or not patentable or copyrightable, developed directly or indirectly as a result of a program of research financed by Institute funds or by funds under the control of the Institute (each a "Subject Property") and (b) to execute any agreements that may be desired by the Institute in connection with such assignment;

WHEREAS, Inventor has, alone or with others, invented "Methods of Performing Homologous Recombination Based Modification of Nucleic Acids in Recombination Deficient Cells and Use of the Modified Nucleic Acid Products Thereof" (the "Invention"), and the Invention is a Subject Property; and

WHEREAS, Inventor seeks to make a formal assignment of his interest in the Invention to the Institute, and the Institute desires the execution of a formal assignment of all of Inventor's right, title, and interest in the Invention.

NOW, THEREFORE, in consideration of the promises contained in and the acts performed and to be performed pursuant to the Intellectual Property Agreement and of other good and valuable consideration, the receipt of which is hereby acknowledged by Inventor, Inventor agrees as follows:

1. Assignment. Inventor hereby assigns to the Institute his entire right, title, and interest in the Invention; any United States patent applications and all corresponding foreign patent applications which are directed to the Invention (including, without limitation, the patent application entitled "Methods of Performing Homologous Recombination Based Modification of Nucleic Acids in Recombination Deficient Cells and Use of the Modified Nucleic Acid Products Thereof" filed in the United States Patent and Trademark Office on June 23, 1997 with serial number 08/880,966), and any and all patents issued therefrom; all United States or foreign division and continuation applications based on any of the foregoing, and any and all patents issued therefrom; and all claims which are directed to the Invention and which may be contained in continuation-in-part applications or in patents which issue therefrom.

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- 2. <u>Cooperation</u>. Inventor agrees to execute upon request such further assignments, documents, and other instruments as may be necessary or desirable to assign Inventor's entire right, title and interest in the Invention to the Institute and to assist the Institute (or others at the direction of the Institute) in applying for, obtaining, and enforcing patents, copyrights, or other rights in the United States and in any foreign country with respect to the Invention.
- 3. <u>Parties.</u> The terms and provisions of this Assignment shall inure to the benefit of the Institute and its successors and assigns and shall be binding on Inventor and his heirs, personal representatives and assigns.
- 4. Warranty. Inventor warrants and represents that he has not entered into any assignment, contract, or understanding in conflict herewith, and that there is no other person or entity whose consent is required in order for the Inventor to make the assignment contained herein.

  Inventor:

  Nathaniel Heintz, Ph.D.

  State/Commonwealth of New York
  County of Soffolk

  Then personally appeared before me the above-named Nathaniel Heintz and acknowledged that he executed the foregoing instrument as his free act and deed this 12 day of Mou.

  Notary Public (SEAL)

Notary Public, State of New York
No. 31-4962936
Qualified in Suffolk County
Commission Expires Feb. 28. 2000

My Commission expires \_\_\_/\_\_/

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