


Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)		RECORDATION FORM COVER SHEET		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
PATENTS ONLY					
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof					
1. Name of conveying party(ies): Sanford D. Markowitz Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. Name and address of receiving party(ies) Name: <u>Howard Hughes Medical Institute</u> Internal Address: <u>Case Western Reserve University</u> Street Address: <u>11001 Cedar Rd., UCRG II, Rm. 200</u> City: <u>Cleveland</u> State: <u>OH</u> Zip: <u>44106</u> Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>February 5, 2004</u>			4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the new application is: _____ A. Patent Application No.(s): 60/406296 08/27/02 10/649591 08/26/03 10/229345 08/26/02 US03/27085 08/26/03 10/274177 10/18/02 60/234087 09/20/00 Additional numbers attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Anita Varma</u> <u>ROPES & GRAY LLP</u> Internal Address: Street Address: <u>One International Place</u> City: <u>Boston</u> State: <u>MA</u> Zip: <u>02110-2624</u>			6. Total number of applications and patents involved: <u>22</u> 7. Total fee (37 CFR 3.41) \$ <u>880.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Authorized to be charged to credit card (Form 2038 enclosed) 8. Deposit account number: <u>18-1945</u> (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and signature. <i>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.</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <u>Anita Varma - 43,221</u> Name of Person Signing </div> <div style="width: 30%; text-align: center;">  Signature </div> <div style="width: 30%; text-align: right;"> <u>March 11, 2004</u> Date </div> </div> <div style="text-align: right; margin-top: 5px;"> Total number of pages including cover sheet, attachments, and documents: <u>6</u> </div>					

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, facsimile no. (703) 306-5995, on the date shown below.

Dated: 3-11-04 Signature: Maura A. Gallagher (Maura A. Gallagher)

Form PTO-1595		RECORDATION FORM COVER SHEET (continued)	
Additional Conveying Party(ies) (1. Continued):			
Additional Assignees (2. Continued):			
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____	State: _____	Zip Code: _____	
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____	State: _____	Zip Code: _____	
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____	State: _____	Zip Code: _____	
Additional Applications and/or Patents (4. Continued):			
Additional Patent Application Numbers 4A. Continued:		Additional Patent Numbers 4B. Continued:	
09/957661	09/20/01	09/239864	01/29/99
US01/29713	09/20/01	09/878805	06/13/01
60/327537	10/05/01	10/646640	08/21/03
10/266103	10/07/02	37791/00	05/30/02
US02/31988	10/07/02	60/495064	08/14/03
60/386653	06/05/02	10/650112	08/26/03
10/456930	06/05/03	US03/27086	08/26/03
US03/18239	06/05/03		
Additional numbers attached?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

ASSIGNMENT

Assignment made February 5, 2004 by Sanford D. Markowitz, MD, PhD, ("Inventor") to the Howard Hughes Medical Institute, a Delaware corporation (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 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 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 all matters listed on Appendix A, (the "Inventions"), and the Inventions are a Subject Property; and

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

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 Inventions; any United States patent applications and all corresponding foreign patent applications which are directed to the Inventions, and any and all patents issued therefrom; all United States or foreign divisional and continuation applications based on any of the foregoing, and any and all patents issued therefrom; and all claims which are directed to the Inventions and which may be contained in continuation-in-part applications or in patents which issue therefrom, substitute applications, and reissues or extensions thereof; and all resulting patents.

2. Cooperation. Inventor agrees to execute upon request such further assignments, documents, and other instruments as may be necessary or desirable to assigning Inventor's entire right, title and interest in the Inventions 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 Inventions.

3. Parties. The terms and provisions of the Assignment shall inure to the benefit of the Institute and its successors and assigns and shall be binding on the 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: Sanford D. Markowitz
Sanford D. Markowitz, MD, PhD

State of Ohio)
County of Cuyahoga)

Then personally appeared before me the above-named Sanford D. Markowitz, MD, PhD and acknowledged that he executed the foregoing instrument in his authorized capacity this 5 day of Feb, 2004.

Notary Public: Carmela Thomas

(SEAL)

(Print Name)

My Commission Expires: _____

CARMELA THOMAS, NOTARY PUBLIC
IN AND FOR THE STATE OF OHIO
MY COMMISSION EXPIRES NOV. 1, 2004

APPENDIX A

Serial Number	Filing Date	Title	Docket Number
	2/27/01	NOVEL METHODS OF DIAGNOSIS OF METASTATIC COLORECTAL CANCER, COMPOSITIONS AND METHODS OF SCREENING FOR MODULATORS OF METASTATIC COLORECTAL CANCER	CWRU-P60-002
	2/27/01	NOVEL METHODS OF DIAGNOSIS OF METASTATIC COLORECTAL CANCER, COMPOSITIONS AND METHODS OF SCREENING FOR MODULATORS OF METASTATIC COLORECTAL CANCER	CWRU-P61-002
60/406296	8/27/02	METHODS FOR TREATING PATIENTS AND IDENTIFYING THERAPEUTICS	CWRU-P60-003
10/229345	8/26/02	METHODS FOR CATEGORIZING PATIENTS	CWRU-P01-003
10/274177	10/18/02	METHODS AND COMPOSITIONS FOR CATEGORIZING PATIENTS	CWRU-P02-003
10/649591	8/26/03	METHODS FOR CATEGORIZING PATIENTS	CWRU-P03-003
US03/27085	8/26/03	METHODS AND COMPOSITIONS FOR CATEGORIZING PATIENTS	CWRU-PWO-003
60/234087	9/20/00	METHODS AND COMPOSITIONS FOR DETECTING CANCERS ASSOCIATED WITH METHYLATION OF hMLH1 PROMOTER DNA	CWRU-P60-006
09/957661	9/20/01	METHODS AND COMPOSITIONS FOR DETECTING CANCERS ASSOCIATED WITH METHYLATION OF hMLH1 PROMOTER DNA	CWRU-P01-006
US01/29713	9/20/01	METHODS AND COMPOSITIONS FOR DETECTING CANCERS ASSOCIATED WITH METHYLATION OF hMLH1 PROMOTER DNA	CWRU-PWO-006
60/327537	10/5/01	METHODS AND COMPOSITIONS FOR DETECTING COLON CANCERS	CWRU-P60-008
10/266103	10/7/02	METHODS AND COMPOSITIONS FOR DETECTING COLON CANCERS	CWRU-P01-008
US02/31988	10/7/02	METHODS AND COMPOSITIONS FOR DETECTING COLON CANCERS	CWRU-PWO-008
60/386653	6/5/02	COLON CANCER DIAGNOSTIC TOOLS	CWRU-P60-010
10/456930	6/5/03	METHODS AND COMPOSITIONS FOR DETECTING CANCERS	CWRU-P01-010
US03/18239	6/5/03	METHODS AND COMPOSITIONS FOR DETECTING CANCERS	CWRU-PWO-010
09/239864	1/29/99	CANCER DIAGNOSIS AND THERAPY BASED ON MUTATIONS IN TGF-B RECEPTORS	CWRU-P03-011
09/878905	6/13/01	CANCER DIAGNOSIS AND THERAPY BASED ON MUTATIONS IN TGF-B RECEPTORS	CWRU-P04-011

10/646640	8/21/03	CANCER DIAGNOSIS AND THERAPY BASED ON MUTATIONS IN TGF-B RECEPTORS	CWRU-P05-011
37791/00	5/30/02	CANCER DIAGNOSIS AND THERAPY BASED ON MUTATIONS IN TGF-B RECEPTORS	CWRU-PA1-011
60/495064	8/14/03	METHOD AND COMPOSITIONS FOR DETECTING COLON CANCERS	CWRU-P60-020
10/650112	8/26/03	METHODS FOR TREATING PATIENTS AND IDENTIFYING THERAPEUTICS	CWRU-P01-044
US03/27086	8/26/03	METHODS FOR TREATING PATIENTS AND IDENTIFYING THERAPEUTICS	CWRU-PWO-044