	FORM PTO-1595 1-31-92 08-07	-1998		TMENT OF COMMERCE ont and Trademark Office		
7	To The Honorable Commissioner of thereof. 10078		rd the attached origin	al documents or copy		
0	Name of conveying parties: Jeremy Nathans, Amir Rattner, Philip M. Smallwood and Hui Sun		d address of receiving ps Hopkins University	party		
MUL	Additional name(s) of conveying party(ies) attached? () YES (X) NO		ess: Homewood-Charles	& 34th Street		
	Nature of Conveyance: (X) Assignment () Merger () Security Agreement	City: Baltime				
	() Change of Name () Other: Execution Date: 4/16/98	State Maryla Additional n	and ZIP 21 ame(s) & address attacl			
	Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:					
	A. Patent Application No.09/032,438 filed 2/27/98	B. Patent No	o.(s)			
	Additional numbers attached? () YES (X) NO					
	5. Name and address of party to whom corresponden concerning documents should be mailed: Name: Lori Y. Beardell	ce 6. Total nui	mber of applications and One	d patents involved:		
	Internal Address: WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor	(X) Enclo	(37 CFR 3.41):			
	Philadelphia, Pennsylvania 19103-7301 Street Address: WOODCOCK WASHBURN KURTZ	Numbe	r 23-3050			
	MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor 1650 Market Street Philadalphia Pagasylvania 19103 7301	į.	narge any deficiency or ent to Deposit Account			
	Philadelphia, Pennsylvania 19103-7301 DO NOT USE THIS SPACE 9. Statement and signature. 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. Lori Y. Beardell/34,293 Name of Person Signing/Reg. No. July 30, 1998 Signature Date					
-	Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to:					
0	/06/199# TTON11 00000235 09032438 Box	of Patents and Tra x Assignments				
0	FC:581 40.00 gp Washir	ngton, D.C. 2023				

PATENT Joint Inventors

(Pending Application; Serial No. Known)

DOCKET NO.: BYLR-0065

ASSIGNMENT

WHEREAS, Rando Allikmets, Kent L. Anderson, Michael Dean, Mark Leppert, Richard A. Lewis, Yixin Li, James R. Lupski, Jeremy Nathans, Amir Rattner, Noah F. Shroyer, Nanda Singh, Philip Smallwood, and Hui Sun, residing respectively at 5564 Rivendale Place, Frederick, MD 21703, P.O. Box 540071 Houston, TX 77254, 1362 Hitchingpost Lane, Frederick, MD 21703, 1466 Westminster Ave. Salt Lake City, UT 84105, 11223 Hermosa Court, Houston, TX 77024, 4045 Linkwood Dr., Apt. 636, Houston, TX 77025, 11102 Ashcroft, Houston, TX 77096, 5510 S. Bend Rd. Baltimore, MD 21209, 6503 Copper Ridge Dr. Apt 202 Baltimore, MD 21209, 4516 ½ Mt. Vernon Street Houston, TX 77006, 1027 Riches Ave., Salt Lake City UT 84106, 5022 Woodbine Road Woodbine, MD 21797, 906A Hooper Avenue Baltimore, MD 21229, are the joint inventors of a patent application filed in the United States Patent and Trademark Office, identified as Serial No. 09/032,438, filed February 27, 1998, entitled Nucleic Acid and Amino Acid Sequences for ATP-Binding Cassette Transporter and Methods of Screening for Agents that Modify ATP-Binding Cassette Transporter (herein called the "Invention"); and

WHEREAS, Johns Hopkins University hereinafter referred to as the assignee, of Homewood-Charles & 34th. Street Baltimore, MD 21218, is desirous of acquiring the entire right, title and interest of Jeremy Nathans, Amir Rattner, Philip M. Smallwood, and Hui Sun, hereinafter referred to as "assignors", in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, our entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said corresponding patent application(s), and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names corresponding patent applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

PATENT REEL: 9358 FRAME: 0011

AND we hereby covenant that we have full right to convey our entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said patent application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we 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 on any applications as aforesaid, to issue to said assignee, as assignee of our entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of any corresponding patent application(s) aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Philip frellur (L.S.)

[WHERE ALL INVENTORS/CONTRIBUTORS SIGN BEFORE THE SAME NOTARY:]

Macyland:	
	SS
On this day of L named JEREMY NATHEN WE known and known to me to be the sar	to me personally came the above to me personally me individuals who executed the foregoing assignment, ecution of the same was of each person's own free will orth.
	and Thux
	Notary Public
[WHERE INVENTORS/CONTRIBU	UTORS SIGN BEFORE SEPARATE NOTARIES:]
COUNTY OF Balthum:	SS
individual who executed the foregoing a	me personally known and known to me to be the same assignment, and who acknowledged to me that execution
-	free will for the use and purposes therein set forth.
	ind hen X
	Notary Public
Maryland: COUNTY OF Baltmore:	SS
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PATENT REEL: 9358 FRAME: 0013

PATENT Joint Inventors

On this day of d					
and. Theek					
Notary Public					
Maylend : SS COUNTY OF Bultime:					
On this hold day of Africa, 1996, before me personally came the above named hold such to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.					
and					
Notary Public					
COUNTY OF:					
On thisday of, 19, before me personally came the above named to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.					
Notary Public					
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RECORDED: 08/04/1998

PATENT REEL: 9358 FRAME: 0014