FORM PTO-1595 (Modified) 1-31-92

07-13-1998

MENT OF COMMERCE

HEET.

Patent and Trademark Office

100762245 **Attorney Docket** No.: |9855-8 (TJU 1082) To the Assistant Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): Name and address of receiving party(ies): **Thomas Jefferson University** Darwin J. Prockop Leena Ala-Kokko 11th and Walnut Streets Charlene J. Williams Philadelphia, PA 19107 Pertti Ritvaniemi Clinton Baldwin Ian Hopkinson Nature of conveyance: | x | Assignment Merger 1 Change of Name Security Agreement Other: Execution Date: 11/13/97; 11/20/97; 12/29/97; 1/31/98; and 4/30/98 4. 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: n/a B. Patent No.(s): A. Patent Application No.(s): 08/256,426 (Filed February 3, 1995) Additional numbers attached? | Yes | No Name and address of party to whom correspondence 6. Total number of applications and patents involved: [1] document should be mailed: Gary D. Colby, Ph.D.,J.D. PANITCH SCHWARZE JACOBS & NADEL, P.C. 7. Total fee (37 CFR 3.41) Cal. $1 \times 40.00 = 40.00$ One Commerce Square - 2005 Market Street - 22nd Fl. Philadelphia, PA 19103-7086 i 1 Enclosed Telephone: (215) 567-2020 [x] Authorized to be charged to deposit account Facsimile: (215) 567-2991 E-Mail: gdc@psjn.com 8. Deposit account number: 16-0235 Direct Dial: 215-965-1285 DO NOT USE THIS SPACE 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 💨 original document. June 26, 1 Gary D. Colby, Ph.D., J.D. Date Name of Person Signing Total number of pages including cover sheet, attachments and document: [18] OMB No. 0651-00; 1 (exp. 4/94)

WHEREAS, we, Darwin J. Prockop, a citizen of the United States, with a post office address of 291 Locust Street, Philadelphia, PA 19108, Leena Ala-Kokko, a citizen of Finland, with a post address of 317A High Road, Salem Harbour, Andalusia, PA 19020, Charlene J. Williams, a citizen of the United States, with a post office address of 46 Long Bow Drive, Sewell, NJ 08080, Pertti Ritvaniemi, a citizen of Finland, with a post office address of Torpantatu 21 A 8, 90230 Oulu, Finland, Clinton Baldwin, a citizen of the United States, with a post office address of 37 Trowbridge Street, Cambridge, MA 02138 and Ian Hopkinson, a citizen of the United Kingdom, with a post office address of 9 Vennwood Close, Wenvoe, Cardiff, United Kingdom, hereinafter generally referred to as "ASSIGNORS," have invented a certain new and useful

METHODS OF DETECTING A GENETIC PREDISPOSITION FOR OSTEOARTHRITIS

for which we have executed a United States patent application, Application No.08/256,426, filed February 3, 1995, and

ASSIGNORS authorize ASSIGNEE or ASSIGNEE's representative to insert the Application Number and Filing date of this application if they are unknown at the time of execution of this Assignment.

WHEREAS, Thomas Jefferson University, a not-for-profit corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having its principal place of business at 11th and Walnut Streets, Philadelphia, PA 19107, hereinafter generally referred to as "ASSIGNEE", is desirous of acquiring said invention and said patent application.

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, we, the undersigned ASSIGNORS, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNORS had this assignment and sale not been made; and for the aforesaid consideration ASSIGNORS hereby covenant, agree and undertake to execute, whenever requested by the above-named ASSIGNEE all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNORS.

Mer. 13, 1997 (Date)	Darwin J. Prockop	(Seal)
Nov. 13, 199-72 (Date)	Leena Ala-Kokko	(Seal)
Nov. 20, 1997 (Date)	Charlene J. Williams	(Seal)
(Date)	Pertti Ritvaniemi	(Seal)
(Date)	Clinton Baldwin	(Seal)
(Date)		(Seal)

STATE OF Remouluanus:	
COUNTY OF Philadelphie: ss.	
COUNTY OF INCOME.	
Before me, a notary public in and for the State and County aforesaid	•
of <u>Market</u> , 1997, personally appeared Darwin J. Prockop , who personally known, and who having first executed the foregoing instrument	_
have been by me first duly sworn, did acknowledge the foregoing instrume	nt as his free deed and
act, signed, sealed and delivered by him for the purpose therein stated and i bound thereby and intending that said instrument be recorded.	ntending to be legally
bound thereby and meshang that said instrained be recorded.	
Jan M. Newl	
Notary Public	
My Commission Expires:	Notarial Seal Rose M. Jenkiris, Notary Public Philadelphia, Philadelphia County My Commission Expires June 5, 2000
STATE OF	
: ss.	
COUNTRY OF Finland :	

Before me, a notary public in and for the State and County aforesaid, on this day of house, 1997, personally appeared Leena Ala-Kokko, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Notary Public

My Commission Expires:

Notarial Seal Rose M. Jenkins, Notary Public Philadelphia, Philadelphia County My Commission Expires June 5, 2000

Before me, a notary public in and for of Novembes. 1997, personally appear personally known, and who having first executate been by me first duly sworn, did acknowact, signed, sealed and delivered by him for the bound thereby and intending that said instruments.	the State and County aforesa ared Charlene J. Williams , we cuted the foregoing instrument wledge the foregoing instrument the purpose therein stated and	who being to me t in my presence and ent as his free deed and
	Notary Public My Commission Expires:	NOTARIAL SEAL SHERRY R. WEITZ, Notary Public City of Philadelphia, Phila. County My Commission Expires June 27, 1998
COUNTRY OF Finland Before me, a notary public in and for of, 1997, personally appea known, and who having first executed the forme first duly sworn, did acknowledge the for sealed and delivered by him for the purpose thereby and intending that said instrument be	ared Pertti Ritvaniemi , who bregoing instrument in my pre regoing instrument as his free therein stated and intending to	being to me personally sence and have been by deed and act, signed,
	Notary Public	

My Commission Expires:

STATE OF	
COUNTY OF	
of, 1997, personally a known, and who having first executed th me first duly sworn, did acknowledge the	for the State and County aforesaid, on this day appeared Clinton Baldwin , who being to me personally e foregoing instrument in my presence and have been by a foregoing instrument as his free deed and act, signed, ose therein stated and intending to be legally bound not be recorded.
and the second s	Notary Public
	My Commission Expires:
STATE OF	
COUNTRY OF <u>United Kingdom</u>	: SS.
of, 1997, personally a known, and who having first executed the me first duly sworn, did acknowledge the	for the State and County aforesaid, on this day appeared Ian Hopkinson , who being to me personally the foregoing instrument in my presence and have been by the foregoing instrument as his free deed and act, signed, as ose therein stated and intending to be legally bound and the recorded.
	Notary Public
	My Commission Expires:

WHEREAS, we, Darwin J. Prockop, a citizen of the United States, with a post office address of 291 Locust Street, Philadelphia, PA 19108, Leena Ala-Kokko, a citizen of Finland, with a post address of 317A High Road, Salem Harbour, Andalusia, PA 19020, Charlene J. Williams, a citizen of the United States, with a post office address of 46 Long Bow Drive, Sewell, NJ 08080, Pertti Ritvaniemi, a citizen of Finland, with a post office address of Torpantatu 21 A 8, 90230 Oulu, Finland, Clinton Baldwin, a citizen of the United States, with a post office address of 37 Trowbridge Street, Cambridge, MA 02138 and Ian Hopkinson, a citizen of the United Kingdom, with a post office address of 9 Vennwood Close, Wenvoe, Cardiff, United Kingdom, hereinafter generally referred to as "ASSIGNORS," have invented a certain new and useful

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in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE; for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNORS had this assignment and sale not been made: and for the aforesaid consideration ASSIGNORS hereby covenant, agree and undertake to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNORS.

New. 13, 1997	Darwin J. Preckop (Seal)
(Date)	Darwin J. Prockop
NOV. 13, 1997	Aur su lu (Seal)
(Date)	Leena Ala-Kokko
Nev 20, 1997	Chifulli- (Seal)
(Date)	Charlene J. Williams
Dec 29, 1997	Just Zituacia reseal
(Date)	Pertti Ritvaniemi
	(Seal)
(Date)	Clinton Baldwin
	(Seal)
(Date)	Ian Hopkinson

STATE OF <u>Pennsylvania</u> COUNTY OF <u>Philadelphia</u>	: SS.	
Before me, a notary public in and for of 1997, personally appear personally known, and who having first executave been by me first duly sworn, did acknown act, signed, sealed and delivered by him for the bound thereby and intending that said instruments.	red Darwin J. Prockop , who uted the foregoing instrument in wledge the foregoing instrument he purpose therein stated and in	being to me in my presence and nt as his free deed and
	Notary Public	
	My Commission Expires:	Notarial Seal Rose M. Jenkiris. Notary Public Philadelphia, Philadelphia County My Commission Expires June 5, 2000
COUNTRY OF Finland	SS.	

Before me, a notary public in and for the State and County aforesaid, on this day of house 1997, personally appeared Leena Ala-Kokko, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Notary Public

My Commission Expires:

Notarial Seal Rose M. Jenkins, Notary Public Philadelphia, Philadelphia County My Commission Expires June 5, 2000

COUNTY OF Philadelphia	; : ss.		
COUNTY OF IMPRILE PRIVATE	_:		
Before me, a notary public in and for the State and County aforesaid, on this <u>20</u> day of <u>1900 movers</u> . 1997, personally appeared Charlene J. Williams , who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.			
	Mesey Rive		
	My Commission Expires:	NOTAPIAL SEAL SHERRY R. WEITZ, Norary Public City of Philadelphia, Phila. County My Commission Expires June 27, 1998	
STATE OF	•		
	: SS.		
COUNTRY OF Finland	_ :		
Before me, a notary public in and for of <u>December</u> , 1997, personally appe			

me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

LAURITHARAHAINEN Notary Public

My Commission Expires:

known, and who having first executed the foregoing instrument in my presence and have been by

STATE OF	
COUNTY OF	: ss.
of, 1997, personally a known, and who having first executed the me first duly sworn, did acknowledge the	If for the State and County aforesaid, on thisday appeared Clinton Baldwin, who being to me personally be foregoing instrument in my presence and have been by the foregoing instrument as his free deed and act, signed, as therein stated and intending to be legally bound and be recorded.
	Notary Public
	My Commission Expires:
STATE OF	
COUNTRY OF <u>United Kingdom</u>	: SS.
of, 1997, personally a known, and who having first executed the me first duly sworn, did acknowledge the	for the State and County aforesaid, on this day appeared Ian Hopkinson , who being to me personally be foregoing instrument in my presence and have been by a foregoing instrument as his free deed and act, signed, use therein stated and intending to be legally bound at be recorded.
	Notary Public
	My Commission Expires:

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in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-

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Nov. 13, 1997 (Date)	Darwin J. Prockop	(Seal)
Nov. 13, 199-7- (Date)	Leena Ala-Kokko	(Seal)
$N_{\text{CV}} = 2\theta_1 / 99 + \frac{1}{2}$ (Date)	Clyfulla. Charlene J. Williams	(Seal)
(Date)	Pertti Ritvaniemi	(Seal)
January 31, 1998 (Waie)	Clinton Baldwin	(Seal)
(Date)	Ian Hopkinson	(Seal)

STATE OF <u>Permoulvanue</u> : ss COUNTY OF <u>Philadelphia</u> :	S.	
Before me, a notary public in and for the of 1997, personally appeared personally known, and who having first executed have been by me first duly sworn, did acknowled act, signed, sealed and delivered by him for the p bound thereby and intending that said instrument	Darwin J. Prockop , who the foregoing instrument ge the foregoing instrume urpose therein stated and i	being to me in my presence and nt as his free deed and
	Jan M. Jenl	
	Notary Public	
My	Commission Expires:	Notarial Seal Rose M. Jenkiris, Notary Public Philadelphia, Philadelphia County My Commission Expires June 5, 2000
STATE OF : ss		
COUNTRY OF <u>Finland</u> :		

Before me, a notary public in and for the State and County aforesaid, on this day of November, 1997, personally appeared Leena Ala-Kokko, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Notary Public

My Commission Expires:

Notarial Seal Rose M. Jenkins, Notary Public Philadelphia, Philadelphia County My Commission Expires June 5, 2000

STATE OF PRINTSULVANIA	:
COUNTY OF Philadelphia	: SS.
of <u>Novembes</u> , 1997, personally app personally known, and who having first exc have been by me first duly sworn, did ackn	or the State and County aforesaid, on this <u>20</u> day leared Charlene J. Williams , who being to me ecuted the foregoing instrument in my presence and lowledge the foregoing instrument as his free deed and or the purpose therein stated and intending to be legally lument be recorded.
	Notary Public Notary Public Notary Public NOTARIAL SEAL SHERRY R. WEITZ, Mistary Public City of Philadelphia, Phila. County My Commission Expires: My Commission Expires June 27, 1996
STATE OF	:
COUNTRY OF Finland	; SS. ;
of, 1997, personally apper known, and who having first executed the f me first duly sworn, did acknowledge the fo	or the State and County aforesaid, on this day eared Pertti Ritvaniemi , who being to me personally foregoing instrument in my presence and have been by foregoing instrument as his free deed and act, signed, at therein stated and intending to be legally bound for recorded.
	Notary Public

My Commission Expires:

STATE OF Musechusetts	: : ss.	
COUNTY OF Widdles ex	:	
Before me, a notary public in and for the Mey 1998 personally ap known, and who having first executed the me first duly sworn, did acknowledge the sealed and delivered by him for the purpos thereby and intending that said instrument	peared Clinton Baldwin, who foregoing instrument in my pa foregoing instrument as his from the therein stated and intending	being to me personally resence and have been by ee deed and act, signed.
	17	
	mitte &	(also)
	Notary Public	
	My Commission Expires:	CYNTHIA E. CARLSON
STATE OF	·	My commission exp. Sept. 15, 2000
	: SS.	
COUNTRY OF United Kingdom	;	
Before me, a notary public in and for, 1997, personally apply known, and who having first executed the me first duly sworn, did acknowledge the for sealed and delivered by him for the purpose thereby and intending that said instrument	peared Ian Hopkinson, who be foregoing instrument in my proforegoing instrument as his free therein stated and intending	peing to me personally resence and have been by the deed and act, signed.
A parties of the control of the cont	Notary Public	
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	(Seal
Darwin J. Prockop	·
	(Seal
Leena Ala-Kokko	
	(Seal)
Charlene J. Williams	
	(Seal
Pertti Ritvaniemi	
	(Seal
Clinton Baldwin	
1 1600	(Seal
Ian Hopkinson/	
	Leena Ala-Kokko Charlene J. Williams Pertti Ritvaniemi Clinton Baldwin

RECORDED: 06/29/1998