# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Jian NI	05/12/2005
Craig A. ROSEN	05/11/2005
Reiner L. GENTZ	05/17/2005

## **RECEIVING PARTY DATA**

Name:	Human Genome Sciences, Inc.	
Street Address:	14200 Shady Grove Road	
City:	Rockville	
State/Country:	ate/Country: MARYLAND	
Postal Code:	20850	

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11076187

## **CORRESPONDENCE DATA**

Fax Number: (202)371-2540

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202-371-2600 Email: jking@skgf.com

Correspondent Name: Elizabeth J. Haanes, Ph.D.

Address Line 1: Sterne, Kessler, Goldstein & Fox PLLC

Address Line 2: 1100 New York Avenue, N.W.

Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

NAME OF SUBMITTER: Elizabeth J. Haanes, Ph.D.

Total Attachments: 6

source=1488 130000E HGS#page1.tif source=1488 130000E HGS#page2.tif source=1488 130000E HGS#page3.tif

PATENT REEL: 016285 FRAME: 0643 JF \$40.00 110/

OP \$40.00

source=1488 130000E HGS#page4.tif source=1488 130000E HGS#page5.tif source=1488 130000E HGS#page6.tif

> PATENT REEL: 016285 FRAME: 0644

### ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: Jian Ni, Craig A. Rosen and Reiner L. Gentz, hereby sell and assign to Human Genome Sciences, Inc., a corporation formed under the laws of Delaware, whose mailing address is 14200 Shady Grove Road, Rockville, MD 20850 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

- (a) in the invention(s) known as **Death Domain Containing Receptor 4** for which application(s) for patent in the United States of America was filed on March 10, 2005 (also known as United States Application No. 11/076,187), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefore; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant James Davis, Esq., Registration No. 40,582; Michele Wales, Esq., Registration No. 43,975; Kenley Hoover, Esq., Registration No. 40,302; Jill Blasy, Esq., Registration No. 41,489; Mark Hyman, Esq., Registration No. 46,789; Melissa Pytel, Esq., Registration No. 41,512; Doyle Siever, Esq., Registration No. 47,088; Joseph Schuller, Esq., Registration No., 48,708; Michele Shannon, Esq., Registration No. 47,075; Karen L. Carroll, Esq., Registration No. 50748; all of HUMAN GENOME SCIENCES, INC., 14200 Shady Grove Road, Rockville, MD 20850; and Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michael A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987; Jeffrey Helvey, Registration No. 43,610; all of STERNE, KESSLER,

Page 1 of 2

GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date:		Signature of Inventor:	Jian NI	
Date:		Signature of Inventor:		
Date:	5/17/05	Signature of Inventor:	Craig A. ROSEN  Reiner L. GENTZ	

394680

#### ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: Jian Ni, Craig A. Rosen and Reiner L. Gentz, hereby sell and assign to Human Genome Sciences, Inc., a corporation formed under the laws of Delaware, whose mailing address is 14200 Shady Grove Road, Rockville, MD 20850 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as **Death Domain Containing Receptor 4** for which application(s) for patent in the United States of America was filed on March 10, 2005 (also known as United States Application No. 11/076,187), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefore; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant James Davis, Esq., Registration No. 40,582; Michele Wales, Esq., Registration No. 43,975; Kenley Hoover, Esq., Registration No. 40,302; Jill Blasy, Esq., Registration No. 41,489; Mark Hyman, Esq., Registration No. 46,789; Melissa Pytel, Esq., Registration No. 41,512; Doyle Siever, Esq., Registration No. 47,088; Joseph Schuller, Esq., Registration No., 48,708; Michele Shannon, Esq., Registration No. 47,075; Karen L. Carroll, Esq., Registration No. 50748; all of HUMAN GENOME SCIENCES, INC., 14200 Shady Grove Road, Rockville, MD 20850; and Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Comwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michele A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,023; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987; Jeffrey Helvey, Registration No. 43,610; all of STERNE, KESSLER,

Page 1 of 2

GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date:	Signature of Inventor:	
Date: 5/11	Signature of Inventor:  Craig A. ROSEN	
Date:	Signature of Inventor:	
	Reiner L. GENTZ	_

394680

#### ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: Jian Ni, Craig A. Rosen and Reiner L. Gentz, hereby sell and assign to Human Genome Sciences, Inc., a corporation formed under the laws of Delaware, whose mailing address is 14200 Shady Grove Road, Rockville, MD 20850 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as Death Domain Containing Receptor 4 for which application(s) for patent in the United States of America was filed on March 10, 2005 (also known as United States Application No. 11/076,187), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefore; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant James Davis, Esq., Registration No. 40,582; Michele Wales, Esq., Registration No. 43,975; Kenley Hoover, Esq., Registration No. 40,302; Jill Blasy, Esq., Registration No. 41,489; Mark Hyman, Esq., Registration No. 46,789; Melissa Pytel, Esq., Registration No. 41,512; Doyle Siever, Esq., Registration No. 47,088; Joseph Schuller, Esq., Registration No., 48,708; Michele Shannon, Esq., Registration No. 47,075; Karen L. Carroll, Esq., Registration No. 50748; all of HUMAN GENOME SCIENCES, INC., 14200 Shady Grove Road, Rockville, MD 20850; and Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michele A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987; Jeffrey Helvey, Registration No. 43,610; all of STERNE, KESSLER,

Page 1 of 2

GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed b	by the undersigned inventors on the date opposite his/her name.  Signature of Inventor:
Date:	Jian N
Date:	Craig A. ROSEN  Signature of Inventor:
	Reiner L. GENTZ

394680

Page 2 of 2