## 11-09-1999





101196391 U.S. Department of Commerce Form PTO-1595 RECORDATION FORM COVER SHEET 6-93 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): 2. Name and address of receiving party(ies): HUMAN GENOME SCIENCES, INC. a) Steven M. RUBEN, and Name: b) Haodong LI. Street Address: 9410 Key West Avenue City: Rockville State: MD Zip Code: 20850 Additional name(s) of conveying party(ies) attached? □ yes ⋈ no Country: 3. Nature of Conveyance: Additional name(s) & address(es) attached? □ yes ⋈ no ■ Assignment □ Merger □ Change of Name □ Security Agreement □ Other Execution Dates: a) September 9, 1999, and b) September 15, 1999. 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 B. Patent No(s). A. Patent Application No(s). 09/334,923 Additional numbers attached? □ yes 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved concerning document should be mailed: 7. Total fee (37 C.F.R. § 3.41)......\$ 40.00 Name: Sterne, Kessler, Goldstein & Fox P.L.L.C. Internal Address: c/o Eric K. Steffe □ Authorized to be charged to Deposit Account 19-0036 8. Deposit Account Number: 1100 New York Ave., N.W. Street Address: Suite 600 City: Washington State: D.C. Zip Code: 20005-3934 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. Eric K. Steffe Name of Person Signing Registration No. 36,688 Total number of pages including cover sheet, attachments and document 5 OMB NO. 0651-0011 (exp.4/94)

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks, Box Assignments

Washington, D.C. 20231

## 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 inventor(s): Steven M. RUBEN and Haodong LI, the undersigned inventor(s) hereby sell(s) and assign(s) to Human Genome Sciences, Inc. (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

and throughout the world,

(a) in the invention(s) known as Macrophage Inflammatory Protein-4 (MIP-4) Polypeptides (As Amended) for which application(s) for patent in the United States of America has (have) (As Amended) for which application(s) for patein in the officed states of Amended been executed by the undersigned on 9/8/99 (also known as United States Application No. 09/334,923, filed June 17, 1999 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 continuing 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 therefor; 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 inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any 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 inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any 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 inventor(s) hereby represent(s) 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 Assignor hereby grants Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K. S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire. Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration

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No. 35,239; and Steven R. Ludwig, Esquire, Registration No. 36,203, of Sterne, Kessler, Goldstein & Fox p.l.l.c., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, and Kenley K. Hoover, Esquire, Registration No. 40,302; James H. Davis, Esquire, Registration No. 40,582; Joseph J. Kenny, Registration No. 43,710; and Michele M. Wales, Esquire, Registration No. 43,975, of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland 20850 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 inventor(s) on the date opposite his/her name.

Date:	9/9/49	Signature of Inventor:	Steven M. Ruben	
Date:		Signature of Inventor:	Haodong Li	_

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SKGF Rev. 12/31/98 mac

PATENT REEL: 010359 FRAME: 0946

## 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 inventor(s): **Steven M. RUBEN and Haodong LI**, the undersigned inventor(s) hereby sell(s) and assign(s) to **Human Genome Sciences, Inc.** (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) 

✓ for the United States of America (as defined in 35 U.S.C. § 100),

✓ and throughout the world,

ly # 36,688

- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing 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 therefor; 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.

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Date:		Signature of Inventor:			
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