

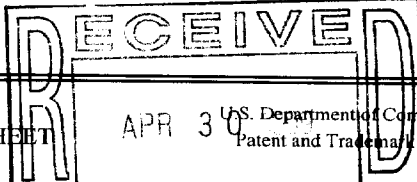
05-05-1999

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U.S. Department of Commerce  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- a) Reiner L. GENTZ;
- b) Arvind CHOPRA;
- c) Parveen KAUSHAL;
- d) Thomas SPITZNAGEL;
- e) Fazal KHAN; and
- f) Edward UNSWORTH

Additional name(s) of conveying party(ies) attached?  yes  no

2. Name and address of receiving party(ies):

Name: **Human Genome Sciences, Inc.**  
 Street Address: 9410 Key West Avenue  
 City: Rockville State: MD Zip Code: 20850  
 Country: United States

Additional name(s) & address(es) attached?  yes  no

4.30.99

3. Nature of Conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Dates: a) 03/15/99; b) c), d) 03/23/99;  
e) 04/05/99; f) 03/17/99

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

A. Patent Application No(s).  
09/218,444; Filed: 12/22/98

B. Patent No(s).

Additional numbers attached?  yes  no

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Sterne, Kessler, Goldstein & Fox P.L.L.C.**

Internal Address: c/o 1488.1030001  
 1100 New York Avenue, N.W. Suite 600  
 Washington, D.C. 20005

Street Address: 1100 New York Ave., N.W.  
 Suite 600

City: Washington State: D.C. Zip Code: 20005-3934

6. Total number of applications and patents involved

1

7. Total fee (37 C.F.R. § 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to Deposit Account

8. Deposit Account Number: 19-0036

05/04/1999 JS:BAZZ 00000109 09218444

01 FC:581

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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.

Andrea Jo Kamage  
 Name of Person Signing  
 Registration No. 43,703

Andrea Jo Kamage  
 Signature

April 30, 1999  
 Date

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): Reiner L. GENTZ, Arvind CHOPRA, Parveen KAUSHAL, Thomas SPITZNAGEL, Edward UNSWORTH, and Fazal KHAN, 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,

(a) in the invention(s) known as Keratinocyte Growth Factor-2 Formulations for which application(s) for patent in the United States of America has (have) been executed by the undersigned inventor(s) on ✓ 3/15/99, 3/23/99, 3/23/99, 3/23/99, and 3/17/99, respectively (also known as United States Application No. 09/218,444, filed December 22, 1998), 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(s) listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application(s) or Letters Patent(s) 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(s) listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application(s), and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application(s), 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 applications as the Assignee may deem necessary or expedient.

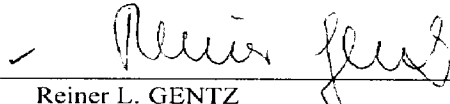
The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application thereof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

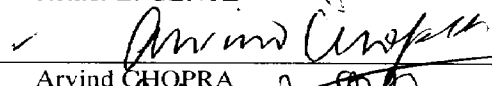
The undersigned inventor(s) hereby represents that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

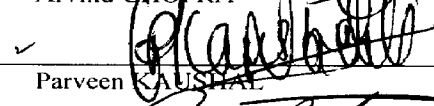
The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 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 No. 35,239; Steven R. Ludwig, Registration No. 36,203; A. Anders Brookes, Esquire, Registration No. 36, 373; Kenley K. Hoover, Registration No. 40, 302; and James H. Davis, Registration No. 40, 582, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, 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 inventor(s) on the date(s) opposite his/her name(s).

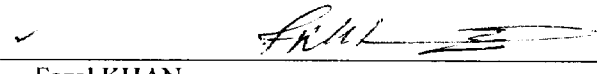
Date: 3-15-98 Signature of Inventor:   
Reiner L. GENTZ

Date: 3/23/99 Signature of Inventor:   
Arvind CHOPRA

Date: 3/23/99 Signature of Inventor:   
Parveen KAUSHAL

Date: 23 MAR 99 Signature of Inventor:   
Thomas SPITZNAGEL

Date: ✓ Signature of Inventor: ✓  
Edward UNSWORTH

Date: 3/17/99 Signature of Inventor:   
Fazal KHAN

IN WITNESS WHEREOF, executed on behalf of the said ASSIGNEE, **Human Genome Sciences, Inc.** on the date below:

By: ✓  
James H. Davis, Ph.D.  
[Type/Print Name]

Title: Senior Vice President & General Counsel

Date: ✓