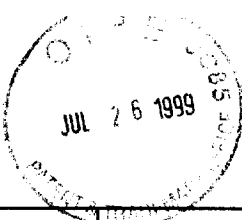


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07-29-1999



PATENT
orney Docket No.: UTC-03444

101105700

RECORDATION FORM COVER SHEET

Form PTO-1595

U.S. Department of Commerce
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):

Anastasia Khvorova
Michael Yarus

Additional name(s) of conveying party(ies) attached? No

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

University Technology Corporation
3101 Iris Avenue
Boulder, Colorado 80301

Additional name(s) & address(es) attached? No

3. Nature of conveyance:

Assignment

Execution Date: July 15, 1999

4. Title of Invention: **RNA CHANNELS IN BIOLOGICAL MEMBRANES**
Application number(s) or patent number(s):

A. Patent Application No.(s):

09/315,886

B. Patent No.(s):

Additional numbers attached? No

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

Kamrin T. MacKnight
MEDLEN & CARROLL, LLP
220 Montgomery Street, Suite 2200
San Francisco, California 94104

6. Total number of applications and patents involved: 1

7. Total fee(s):

Check(s) in the amount of \$105.00 enclosed (\$40.00 for Recordation and \$65.00 for Missing Parts).

8. Deposit Account Authorization:

The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

07/28/1999 MARAWI 00000047 09315886

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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.

Date: July 22, 1999

Signature: *Kamrin MacKnight*

Name: Kamrin T. MacKnight

Reg. No.: 38,230

Total number of pages including cover sheet, attachments, and document: 3

ASSIGNMENT

WHEREAS, WE, Anastasia Khvorova and Michael Yarus, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **RNA CHANNELS IN BIOLOGICAL MEMBRANES**

Filing Date: 05/20/99 Serial No.: 09/315,886

WHEREAS, University Technology Corporation, a Colorado corporation, 3101 Iris Avenue, Boulder, Colorado 80301, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

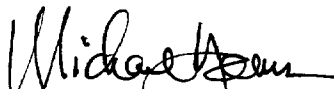
NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to ASSIGNOR by ASSIGNEE and other good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's names to this assignment on the date indicated below.



Anastasia Khvorova

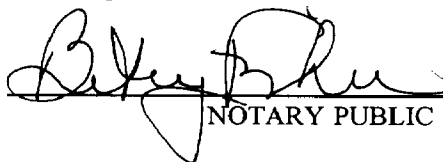


Michael Yarus

STATE OF Colorado)

COUNTY OF Boulder) ss.

On this 15 day of July, in the year of 1999, before me, the undersigned notary public, personally appeared the above-named ASSIGNOR, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same.


NOTARY PUBLIC

SEAL

**Betsy Fisher Notary for the State of Colorado
Boulder County
My commission expires 11-18-2000**