

07-16-2002



102155783

Form PTO-1595  
(Rev. 03/01)

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

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

1. Name of conveying party(ies): 7-12-02  
The Trustees of Columbia University in NYC  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: National Science Foundation  
Internal Address: Office of the General Counsel  
Suite 1265  
Street Address: 4201 Wilson Boulevard  
City: Arlington State: VA Zip: 22230  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other Confirmatory License  
Execution Date: 02/26/02

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) \_\_\_\_\_  
B. Patent No.(s) 5,871,976  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Robin Clay Fritsch  
Internal Address: Office of the General Counsel  
Suite 1265  
Street Address: 4201 Wilson Boulevard  
City: Arlington State: VA Zip: 22230

6. Total number of applications and patents involved:   
7. Total fee (37 CFR 3.41).....\$ 0.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number:  
\_\_\_\_\_

DO NOT USE THIS SPACE

9. Signature.  
Robin Clay Fritsch  7/2/02  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents:

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 013067 FRAME: 0889



## LICENSE TO THE UNITED STATES GOVERNMENT

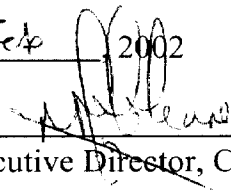
**Invention Title:** Autocatalytic Replication of Recombinant RNA  
**Inventor(s):** Fred Russell Kramer / Eleanor Anne Miele / Donald Robert Mills  
**Patent No.:** 5,871,976  
**Docket No.:** 20967-Z3Z  
**U.S. Issue Date:** February 16, 1999  
**Grant/Contract Identification No.:** GM 33345

The invention identified above is a Subject Invention under 35 U.S.C. 200, et. seq., and the Standard Patent Rights clause at 45 CFR 650.4, which are included among the terms of the above-identified grant/contract award from the National Science Foundation. This document is confirmatory of:

1. The nonexclusive, nontransferable, irrevocable, paid-up license granted to the Federal Government in the invention described in the patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon; and
2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations which are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 26 day of Feb 2002

By   
Michale Cleare - Executive Director, Columbia Innovation Enterprise

For The Trustees of Columbia University in the City of New York

At 363 Engineering Terrace, Columbia University, New York, NY 10027