



2-14-01

101619227

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

AIR MAIL BOX ASSIGNMENTS

1. Name of conveying party(ies):
1) Paola Minoprio, 2) Antonio Coutinho, 3) Catherine Rougeot,
4) Wim Degrave, 5) Alain Cosson
2. Name and address of receiving party(ies):
Name: Institut Pasteur

Additional name(s) of conveying party(ies) attached? Yes No
Internal Address: 28, rue du Docteur Roux
Paris Cedex 15, France

3. Nature of conveyance:
Street Address:

Assignment Merger
City:

Security Agreement Change of Name
State: Zip Code:

Other: Additional name(s) & Address(es) attached?

Execution Date: 1) 12/14/00, 2) 1/14/01, 3) 12/14/00, 4) 12/14/00,
5) 12/14/00 Yes No

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:
A. Patent Application Number(s):
09/725,945
B. Patent Number(s):
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Kenneth J. Meyers
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.
Street Address: 1300 I Street, N.W.
City: Washington, D.C.
State: Zip: 20005-3315
6. Total number of applications and registrations involved: 1
7. Total fee (37 CFR 3.41): \$40
 Enclosed (Please charge deficiency to deposit account)
 Authorized to be charged to deposit account
8. Deposit Account No.: 06-0916

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.

Signature Date: February 14, 2001

Kenneth J. Meyers,
Reg. No. 25,146

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

ASSIGNMENT

WHEREAS, We, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

CLONING, SEQUENCING AND EXPRESSION OF A GENE ENCODING AN EUKARYOTIC AMINO ACID RACEMASE, AND DIAGNOSTIC, THERAPEUTIC, AND VACCINATION APPLICATION OF PARASITE AND VIRAL MITOGENS

for which we executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on November 30, 2000; and

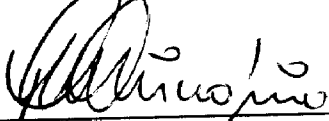
WHEREAS, Institut Pasteur, a corporation of France whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, we as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

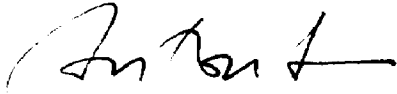


PAOLA MINOPRIO

14/12/2000

Date

MARIO ARALA-CHAVES



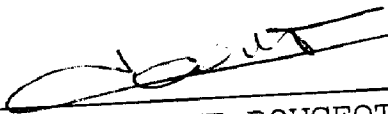
Date

ANTONIO COUTINHO

14.01.01

Date

BERNARDO REINA SAN MARTIN



Date

CATHERINE ROUGEOT

14/12/00

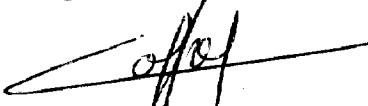
Date

WIM DEGRAVE

14/12/00

Date

ALAIN COSSON



Date

14/12/00