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Form PTO-1595
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8.10.99

U.S. Department of Commerce
Patents & Trademark Office

Attorney Docket No. P8172-9019

Date: August 10, 1999

To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

(1) Francis X. CUNNINGHAM, Jr. and (2) Zairen SUN

Additional name(s) of conveying party(ies) attached?

Yes No

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

Name: UNIVERSITY OF MARYLAND

Address: College Park, Maryland

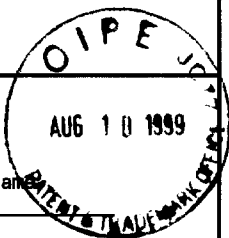
Additional name(s) & address(es) attached?

Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: (1) July 9, 1999 and (2) July 14, 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: _____

A. Patent Application No.(s)

09/323,998

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Nikaido, Marmelstein, Murray & Oram LLP

Address: Metropolitan Square, 655 15th Street, N.W.,
G Street Lobby - Suite 330

City: Washington State: D.C. Zip: 20005-5701

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

Enclosed (Check No. 20442)

Authorized to be charged to Deposit Account

8. Deposit Account Number:

14-1060

(Attach duplicate copy of this page if paying by deposit account)

6. Total number of applications and patents involved:

1

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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.

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Richard J. Berman
Name of Person Signing
Reg. No. 39,107

Richard J. Berman
Signature

August 10, 1999

Date

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

[Insert
ASSIGNEE's
Name(s)
Address(es)]

**UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND 20742**

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

GENES OF CAROTENOID BIOSYNTHESIS AND METABOLISM AND METHODS OF USE THEREOF

[Title of
Invention]

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

[*If the assignment
is being filed
after the
filing of the
application, this
section must be
completed]

*filed on June 3, 1999, Serial No. 09/323,998

(Nikaido, Marmelstein, Murray & Oram LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

[Signature(s)
of Assignor(s)]

<u><i>Francis X. Cunningham Jr.</i></u> (SIGNATURE)	<u>Francis X. CUNNINGHAM, Jr.</u> (TYPE NAME)	<u>July 9, 1999</u> (DATE)
<u><i>Zairen Sun</i></u> (SIGNATURE)	<u>Zairen SUN</u> (TYPE NAME)	<u>July 14, 1999</u> (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)

NO LEGALIZATION REQUIRED