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SHEET

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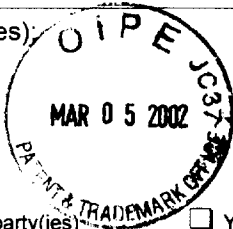
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Eduardo MARBAN
Brian O'ROURKE
Masaharu AKAO



Additional names(s) of conveying party(ies)

☐ Yes ☒ No

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

Name: Johns Hopkins UniversityAddress: 720 Rutland AvenueCity: BaltimoreState/Prov.: MDCountry: U.S.A.ZIP: 21205

Additional name(s) & address(es)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: 12/21/2001 Consecutively

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

09/977,55810/15/200103/11/2002 BABRAHA1 00000076 0997755801 FC:58140.00 OP

Additional numbers

☐ Yes ☒ No

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

Name: Peter F. CorlessRegistration No. 33,860Address: EDWARDS & ANGELL, LLPP.O. BOX 9169City: BOSTONState/Prov.: MACountry: U.S.A.ZIP: 02209

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41):.....\$ 40.00☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

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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.

Peter F. Corless

Name of Person Signing

Signature

February 25, 2002

Date

4

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

PATENT

REEL: 012659 FRAME: 0314

ASSIGNMENT

WHEREAS, I, **Eduardo MARBAN**, inventor and a citizen of the United States of America, **Brian O'ROURKE**, inventor, and a citizen of the United States of America, I, **Masaharu AKAO**, inventor and a citizen of Japan, I, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in **TREATMENT OF APOPTOTIC CELL DEATH**, for which an application for United States Letters Patent with the same title has been filed with the United States Patent and Trademark Office, under application number **09/977,558** and a filing date of **October 15, 2001**.

WHEREAS, **Johns Hopkins University 720 Rutland Avenue, Baltimore, Maryland 21205**, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to this invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said applications and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said inventions, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors also have sold, assigned, and transferred, and do hereby sell, assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said applications, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said inventions in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its

successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the law firm of EDWARDS & ANGELL LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this documents.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this 21st day of December, 2001.

Eduardo Marban
Eduardo MARBAN

Dated this 21st day of December, 2001.

Brian O'Rourke
Brian O'ROURKE

Dated this 21st day of December, 2001.

Mafsa Haru Aka
Mafsa Haru AKAO

NOTORIAL CERTIFICATE

State of Maryland)
County of Baltimore)

Personally appeared before me the above-named **Eduardo MARBAN**, who signed the foregoing Assignment in my presence on the date thereof and acknowledged the same to be his voluntary act and deed.

William A. Lucas
NOTARY PUBLIC

My commission expires 10/01/05

State of Maryland)
)
 County of Baltimore)

Personally appeared before me the above-named **Brian O'ROURKE**, who signed the foregoing Assignment in my presence on the date thereof and acknowledged the same to be his voluntary act and deed.

Margaret J. Beal
 NOTARY PUBLIC

State of Maryland)
)
 County of Baltimore) *My commission expires 09/13/05.*

Personally appeared before me the above-named **Masaharu AKAO**, who signed the foregoing Assignment in my presence on the date thereof and acknowledged the same to be his voluntary act and deed.

Whitna A. Lucas
 NOTARY PUBLIC

My commission expires 10/01/05