

PATENT ASSIGNMENT

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| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |
| CONVEYING PARTY DATA | |
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| UNIVERSITY OF IOWA | 06/13/2000 |
| RECEIVING PARTY DATA | |
| Name: | National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government |
| Street Address: | NIH Division of Extramural Inventions and Technology Resources (DEITR) |
| Internal Address: | 6705 Rockledge Drive, Suite 310, MSC 7980 |
| City: | Bethesda |
| State/Country: | MARYLAND |
| Postal Code: | 20892-7980 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 08565943 |
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Fax this to 301/480-0272

Apicella

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License to the United States Government

Invention Title: Non-Toxic Mutants of Pathogenic Gram-Negative Bacteria

Inventor(s): Michael A Apicella Bradford W Gibson Na-Gyong Lee Melvin G Sunshine

Patent or Application Serial No.: 08/565,943

U.S. Filing/Issue Date: 12/1/95

Grant/Contract Identification Number(s): AI24616

Foreign Applications filed/intended in (countries): PCT/US96/18984 11/27/96

The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14 or FAR 52.227-11, which are included among the terms of the above-identified grant/contract award from the Public Health Service/National Institutes of Health. This document is confirmatory of:

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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 13 day of JUNE, ~~XX~~ 2000

By

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