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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office Docket No. 247332000520

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To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name of conveying party(ies): 2. Name and address of receiving party(ies): (1) Iain D. PETERS, (2) Beth-Ann G. COLLER, Name: Hawaii Biotechnology Group, Inc. (3) Michael McDONELL, (4) John M. IVY, and Internal Address: Suite 236 (5) Kent HARADA Street Address: 99-193 Aiea Heights Drive City:, State:, ZIP: Aiea, HAWAII 96701 ■ Individual(s) ☐ Association ☐ General Partnership ☐ Limited Partnership ☐ Corporation-State ☐ Other Additional name(s) & address(es) attached?

Yes
No Additional name(s) of conveying party(ies) attached? □Yes ■No Nature of conveyance: ■ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: Execution Date: (1) September 17, 1999, (2) September 13, 1999, (3) September 16, 1999, (4) September 17, 1999, (5) September 14, 1999, respectively 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: Patent Application No.(s) B. Patent No.(s) 09/376,463 Additional numbers attached?

Yes

No Name and address of party to whom correspondence concerning 6. Total number of applications and patents involved: 1 document should be mailed: 7. Total fee (37 C.F.R. § 3.41): \$40.00 Carolyn A. Favorito Morrison & Foerster LLP Enclosed 2000 Pennsylvania Avenue, N.W. Washington, D.C. 20006-1888 Authorized to be charged to deposit account, referencing Attorney Docket 247332000800 8. Deposit account number: 03-1952 The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 03-1952 DO NOT USE THIS SPACE 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. Name: Carolyn A. Favorito Registration No: 39,183 Total number of pages comprising cover sheet, attachments and document: 6 0/1<mark>2/1999 HTHAI</mark>1 00000129 09376463 ments to be recorded with required cover sheet information to: Mail dod FC:581 U.S. Patent and Trademark Office Office of Public Records Box Assignments Crystal Gateway 4, Room 335 Washington, D.C. 20231 dc-177663

Attorney Docket No.: 247332000520

ASSIGNMENT JOINT

THIS ASSIGNMENT, by lain D. PETERS, Beth-Ann G. COLLER, Michael McDONELL, John M. IVY and Kent HARADA (hereinafter referred to as the assignors), residing at Bozeman, Montana 59715; B-1200 Woluwe Saint Lambert, Belgium; Bogart, Georgia 30622; College Station, Texas 77845 and Honolulu, Hawaii 96818, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in RECOMBINANT DIMERIC ENVELOPE VACCINE AGAINST FLAVIVIRAL INFECTION, set forth in an application for Letters Patent of the United States, bearing Serial No. 09/376,463 and filed on August 18, 1999; and

WHEREAS, HAWAII BIOTECHNOLOGY GROUP, INC., a corporation duly organized under and pursuant to the laws of HAWAII and having its principal place of business at 99-193 Aiea Heights Drive, Suite 236, Aiea, Hawaii 96701 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-inpart of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

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Attorney Docket No.: 247332000520

| 13 Sep 1999 Date | Beth-Ann G. COLLER | |
|---------------------|--------------------|--|
| Date | Michael McDONELL | |
| Date | John M. IVY | |
| Date | Kest HARADA | |

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| Date 9/16/99 | Beth-Ann G. COLLIER Michael Wedl | Mag | D |
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| Date | Michael McDONELL | | |
| Date | John M. IVY | | |
| Date | Kent HARADA | | |

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Attorney Docket No.: 247332000520

Date

Beth-Ann G. COLLER

Date

Michael McDONELL

19 Sept. 1990

John M IV

Date

Kent HARADA

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REEL: 010293 FRAME: 0425

Attorney Docket No.: 247332000520

Date Beth-Ann G. COLLER

Date Michael McDONELL

John M. IVY Date

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