05-09-2001



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|   | 002,2001  |
| Name (line 2)                                       |   |
| Second Party  | Execution Date  Month Day Year                                      |
| Name (line 1) Kay, William W.                       | 03272001  |
| Name (line 2)                                       |   |
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| Receiving Party                                     | Mark if additional names of receiving parties attached              |
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| Name (line 2) A Corporation of the Pr               | ovince of British Columbia, Canada                                  |
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| Address (line 2)                                    |   |
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**PATENT** REEL: 011765 FRAME: 0054

| FORM PTO-1619B<br>Expires 06/30/99<br>OMB 0651-0027 |  | Page 2   | U.S. Department of Commerce Patent and Trademark Office PATENT |
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| Patent  | Application Number(s)  | F  | atent Number(s)  |
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| Jeffrey C. Pepe                                     |  | Shandrark  |  |

PATENT REEL: 011765 FRAME: 0055

## **ASSIGNMENT**

WHEREAS, we, Ján Burian and William W. Kay (hereinafter referred to as ASSIGNORS), having post office addresses of A5 445 S.W. Marine Drive, Vancouver, British Burish Columbia, Canada V8R 5K8, respectively, are the joint inventors of an invention entitled "REPLICATION GENES AND GENE PRODUCTS FROM SMALL CRYPTIC PLASMIDS AND METHODS FOR CONSTRUCTING CONTROLLED-REPLICATION PLASMID VECTORS," as described and claimed in the specification for which an application for United States letters patent was filed on March 13, 1998 and assigned Application No. 09/042,071, which claims benefit of U.S. Provisional Application No. 60/040,722, filed on March 14, 1997, and entitled "REPLICATION GENES AND GENE PRODUCTS FROM SMALL CRYPTIC PLASMIDS AND METHODS FOR CONSTRUCTING HIGH-COPY NUMBER PLASMID VECTORS."



WHEREAS, the University of Victoria (hereinafter referred to as ASSIGNEE), a corporation of the Province of British Columbia, Canada, having a place of business at P.O. Box 1700, Victoria, British Columbia, Canada V8W 2Y2, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

> PATENT REEL: 011765 FRAME: 0056

| March 27, 2001  | Jan ( ) pin- |
|-----------------|--------------|
| Date            | Ján Kurian / |
| Province of BC. |              |
| County of )     | SS.          |

I certify that I know or have satisfactory evidence that Ján Burian is the person who appeared before me, and said person acknowledged that she signed this instrument and acknowledged it to be her free and voluntary act for the uses and purposes mentioned in the instrument.

| Dated                         | March 27,2001             |  |
|-------------------------------|---------------------------|--|
| Signature of<br>Notary Public | Melasa                    |  |
| Printed Name                  | D.K LOVETT                |  |
| My appointme                  | nt expires no expiry date |  |

| March 27, 2001  | William Kay    |  |
|-----------------|----------------|--|
| Date            | William W. Kay |  |
| Province of B.C | $\mathcal{O}$  |  |
| County of       | SS.            |  |

I certify that I know or have satisfactory evidence that William W. Kay is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

| Dated                         | March 27, 2001                   |  |
|-------------------------------|----------------------------------|--|
| Signature of<br>Notary Public | Melasto                          |  |
| Printed Name                  | D.K. Lovett                      |  |
| My appointme                  | nt expires <u>no expiry</u> date |  |

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