

12/20/04

REC

12-22-2004



U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Docket No. 3213/111

To the Honorable Commissioner of Patents

all documents or copy thereof.

102909497

1. Name of conveying party(ies):

William D.O. Hamilton
Koen Hellendoorn
Timothy D. Jones
Dwayne D. Kirk

FINANCE SECTION

Name of receiving party(ies)

Name: Boyce Thompson Institute for Plant Research

Street Address: Tower Road

City: Ithaca State: New York Zip: 14855-1801

Country: U.S.A.

Postal Code: _____

Additional name(s) & address(es) attached? Yes No

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date(s):

1st Inventor: October 18, 2004

2nd Inventor: October 19, 2004

3rd Inventor: October 19, 2004

4th Inventor: November 16, 2004

4. Application number(s) or patent number(s);

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

A. Patent Application No.(s)
10/895,791

B. Patent No.(s)

Additional numbers attached? Yes No

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

Attorney Name: Michael L. Goldman, Esq.

Firm Name: Nixon Peabody LLP

Internal Address: _____

Street Address: Clinton Square, P.O. Box 31051

City: Rochester State: NY Zip: 14603-1051

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

14-1138

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

DO NOT USE THIS SPACE

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.

Noreen L. Connolly

Name of Person Signing

Registration No. 48,987

Noreen Connolly
Signature

Dec 16, 2004
Date

Total number of pages including cover sheet, attachments, and documents: 22

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Assignment Recordation Services, Director of the United States Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450
- transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703) _____

December 16, 2004
Date

Jo Ann Whalen
Signature

Jo Ann Whalen

Typed or printed name

12/21/2004 ECDOPER 00000021 10895791

01 FC:8021

40.00 0P

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services, Director of the United States Patent and Trademark Office,
P.O. Box 1450, Alexandria, VA 22313-1450

1. Name of conveying party(ies) (Cont.):

Hugh S. Mason
Xiuren Zhang
Charles J. Arntzen

3. Execution Dates of Assignment (Cont.):

5th Inventor: November 30, 2004

6th Inventor: December 7, 2004

7th Inventor: November 30, 2004

ASSIGNMENT

WHEREAS, We, **William D.O. Hamilton**, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, **Koen Hellendoorn**, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, **Timothy D. Jones**, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, **Dwayne D. Kirk**, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, **Hugh S. Mason**, a United States citizen, residing at 16833 S. 24th Place, Phoenix, Arizona 85048, **Xiuren Zhang**, a Chinese citizen, residing at 504 E. 63rd Street, Apt. 7S, New York, New York 10021, and **Charles J. Arntzen**, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in **VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS** for which an application for Letters Patent in the United States, was filed as U.S. Serial No. **10/895,791** on **July 21, 2004**;

AND WHEREAS, **Boyce Thompson Institute for Plant Research**, with its principal place of business at Tower Road, Ithaca, New York 14853-1801, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 19 day of October, 2004.

W.D.O. Hamilton
William D.O. Hamilton

Witnessed: [Signature]
Name JONATHAN LICAL
Address 20 ASH GROVE,
NOTTINGHAM
Date: 18/10/04

Witnessed: [Signature]
Name SIMON GRIMSHAW
Address 96 STANLEY RD
CAMBRIDGE
Date: 18/10/04

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Koen Hellendoorn

Witnessed:

Name _____
Address _____
Date: _____

Witnessed:

Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Timothy D. Jones

Witnessed:

Name _____
Address _____
Date: _____

Witnessed:

Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Dwayne D. Kirk

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Dwayne D. Kirk**, to me personally known as the individual who executed the
same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Hugh S. Mason

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Hugh S. Mason**, to me personally known as the individual who executed the
same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Xiuren Zhang

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Xiuren Zhang**, to me personally known as the individual who executed the
same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Charles J. Arntzen

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Charles J. Arntzen**, to me personally known as the individual who executed
the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

ASSIGNMENT

WHEREAS, We, **William D.O. Hamilton**, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, **Koen Hellendoorn**, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, **Timothy D. Jones**, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, **Dwayne D. Kirk**, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, **Hugh S. Mason**, a United States citizen, residing at 16833 S. 24th Place, Phoenix, Arizona 85048, **Xiuren Zhang**, a Chinese citizen, residing at 504 E. 63rd Street, Apt. 7S, New York, New York 10021, and **Charles J. Arntzen**, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in **VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS** for which an application for Letters Patent in the United States, was filed as U.S. Serial No. **10/895,791** on **July 21, 2004**;

AND WHEREAS, **Boyce Thompson Institute for Plant Research**, with its principal place of business at Tower Road, Ithaca, New York 14853-1801, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _____ day of _____, 2004.

William D.O. Hamilton

Witnessed:

Name _____
Address _____
Date: _____


Witnessed:

Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 19 day of October, 2004.



Koen Hellendoorn

Witnessed: 
Name Wendy Phillips
Address 67 Oxford Road
Cambridge CB4 3PH
Date: Oct 19, 2004

Witnessed: Edenbridge
Name Dawn Bembridge
Address 4 Owen Drive
Royston, Herts. SG8 5US
Date: 19th October 2004.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Timothy D. Jones

Witnessed:
Name _____
Address _____
Date: _____

Witnessed:
Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Dwayne D. Kirk

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the above-named **Dwayne D. Kirk**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Hugh S. Mason

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Hugh S. Mason**, to me personally known as the individual who executed the
same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Xiuren Zhang

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Xiuren Zhang**, to me personally known as the individual who executed the
same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Charles J. Arntzen

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Charles J. Arntzen**, to me personally known as the individual who executed
the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

ASSIGNMENT

WHEREAS, We, **William D.O. Hamilton**, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, **Koen Hellendoorn**, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, **Timothy D. Jones**, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, **Dwayne D. Kirk**, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, **Hugh S. Mason**, a United States citizen, residing at 16833 S. 24th Place, Phoenix, Arizona 85048, **Xiuren Zhang**, a Chinese citizen, residing at 504 E. 63rd Street, Apt. 7S, New York, New York 10021, and **Charles J. Arntzen**, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in **VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS** for which an application for Letters Patent in the United States, was filed as U.S. Serial No. **10/895,791** on **July 21, 2004**;

AND WHEREAS, **Boyce Thompson Institute for Plant Research**, with its principal place of business at Tower Road, Ithaca, New York 14853-1801, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

William D.O. Hamilton

Witnessed:

Name _____
Address _____
Date: _____

Witnessed:

Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Koen Hellendoorn

Witnessed:

Name _____
Address _____
Date: _____

Witnessed:

Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 19 day of October, 2004.

Timothy D. Jones

Witnessed:

Name (MATTHEW BAKER)
Address THE HOLTS SARGENT'S YARD
HILL ST, HORNWATER
Date: 19th OCTOBER 2004

Witnessed:

Name (BEVERLEY SMITH) Beverley
Address 22 CULLEN CRESENT
ROUJTON, HERTFORDSHIRE, SG8 7XP
Date: 19th OCTOBER 2004

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Dwayne D. Kirk

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the above-named **Dwayne D. Kirk**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Hugh S. Mason

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Hugh S. Mason**, to me personally known as the individual who executed the
same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Xiuren Zhang

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Xiuren Zhang**, to me personally known as the individual who executed the
same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Charles J. Arntzen

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Charles J. Arntzen**, to me personally known as the individual who executed
the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

ASSIGNMENT

WHEREAS, We, **William D.O. Hamilton**, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, **Koen Hellendoorn**, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, **Timothy D. Jones**, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, **Dwayne D. Kirk**, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, **Hugh S. Mason**, a United States citizen, residing at 16833 S. 24th Place, Phoenix, Arizona 85048, **Xiuren Zhang**, a Chinese citizen, residing at 504 E. 63rd Street, Apt. 7S, New York, New York 10021, and **Charles J. Arntzen**, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in **VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS** for which an application for Letters Patent in the United States, was filed as U.S. Serial No. **10/895,791** on **July 21, 2004**;

AND WHEREAS, **Boyce Thompson Institute for Plant Research**, with its principal place of business at Tower Road, Ithaca, New York 14853-1801, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _____ day of _____, 2004.

William D.O. Hamilton

Witnessed:

Name _____
Address _____

Date: _____

R789315.1

Witnessed:

Name _____
Address _____

Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Koen Hellendoorn

Witnessed:

Name _____
Address _____
Date: _____

Witnessed:

Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Timothy D. Jones

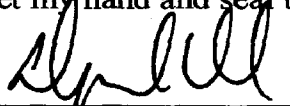
Witnessed:

Name _____
Address _____
Date: _____

Witnessed:

Name _____
Address _____
Date: _____


IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 16th day of November, 2004.



Dwayne D. Kirk

STATE OF Arizona
COUNTY OF Maricopa SS:

This 16th day of November, 2004, before me personally came the above-named **Dwayne D. Kirk**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.



Notary Public
Commission expires _____

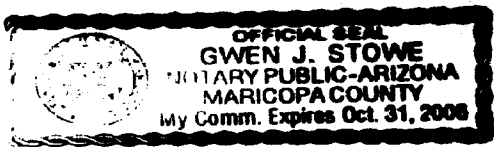


IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 30 day of November, 2004.

Hugh S. Mason
Hugh S. Mason

STATE OF ARIZONA
COUNTY OF MARICOPA SS:

This 30 day of November, 2004, before me personally came the above-named Hugh S. Mason, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.



Gwen J. Stowe
Notary Public
Commission expires on 10-31-06.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ___ day of _____, 2004.

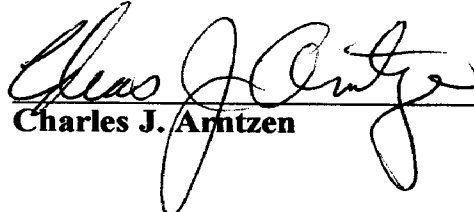
Xiuren Zhang

STATE OF _____
COUNTY OF _____ SS:

This ___ day of _____, 2004, before me personally came the above-named Xiuren Zhang, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

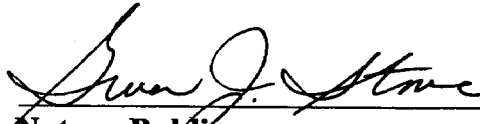
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 30th day of November, 2004.



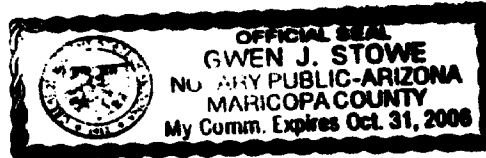
Charles J. Arntzen

STATE OF ARIZONA
COUNTY OF MARICOPA SS:

This 30 day of November, 2004, before me personally came the above-named **Charles J. Arntzen**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.



Notary Public
Commission expires on 10-31-06.



ASSIGNMENT

WHEREAS, We, **William D.O. Hamilton**, a citizen of the United Kingdom, residing at Grove Farm, Leaden Hill, Orwell, Royston, Herts. SG8 5QH, United Kingdom, **Koen Hellendoorn**, a citizen of The Netherlands, residing at 307 Hethersett Close, Newmarket, Suffolk, CB8 7AT, United Kingdom, **Timothy D. Jones**, a citizen of the United Kingdom, residing at 27 Brick Row, Babraham, Cambridgeshire, United Kingdom, **Dwayne D. Kirk**, a citizen of Australia, residing at 3427 N. Sericin Street, Mesa, Arizona 85215, **Hugh S. Mason**, a United States citizen, residing at 16833 S. 24th Place, Phoenix, Arizona 85048, **Xiuren Zhang**, a Chinese citizen, residing at 504 E. 63rd Street, Apt. 7S, New York, New York 10021, and **Charles J. Arntzen**, a citizen of the United States, residing at 7686 E. Wilderness Trail, Superstition Mountain, Arizona 85218, have invented certain new and useful improvements in **VECTORS AND METHODS FOR IMMUNIZATION AGAINST NORWALK VIRUS USING TRANSGENIC PLANTS** for which an application for Letters Patent in the United States, was filed as U.S. Serial No. **10/895,791** on **July 21, 2004**;

AND WHEREAS, **Boyce Thompson Institute for Plant Research**, with its principal place of business at Tower Road, Ithaca, New York 14853-1801, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Boyce Thompson Institute for Plant Research**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

William D.O. Hamilton

Witnessed:

Name _____
Address _____

Date: _____

R789315.1

Witnessed:

Name _____
Address _____

Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Koen Hellendoorn

Witnessed:

Name _____
Address _____
Date: _____

Witnessed:

Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Timothy D. Jones

Witnessed:

Name _____
Address _____
Date: _____

Witnessed:

Name _____
Address _____
Date: _____

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Dwayne D. Kirk

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the above-named **Dwayne D. Kirk**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____, 2004.

Hugh S. Mason

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the above-named **Hugh S. Mason**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7 day of December, 2004.

Xiuren Zhang

Xiuren Zhang

STATE OF New York
COUNTY OF New York SS:

This 7 day of December 2004, before me personally came the above-named **Xiuren Zhang**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Marguerite T. Nulty

Notary Public
Commission expires on 08/31/2006

MARGUERITE T. NULTY
Notary Public, State of New York
No. 41-4638775
Qualified in Nassau County
Commission Expires August 31, 2006

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day
of _____, 2004.

Charles J. Arntzen

STATE OF _____
COUNTY OF _____ SS:

This ____ day of _____, 2004, before me personally came the
above-named **Charles J. Arntzen**, to me personally known as the individual who executed
the same of his/her own free will for the purposes therein set forth.

Notary Public
Commission expires on _____.