

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT														
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Bryan J. Boyle</td> <td>09/17/2003</td> </tr> <tr> <td>Y. Tom Tang</td> <td>09/17/2003</td> </tr> <tr> <td>Radoje T. Drmanac</td> <td>09/17/2003</td> </tr> <tr> <td>Chiaoyun Kuo</td> <td>09/16/2003</td> </tr> <tr> <td>Chenghua Liu</td> <td>09/16/2003</td> </tr> <tr> <td>Jian-Rui Wang</td> <td>09/19/2003</td> </tr> </tbody> </table>		Name	Execution Date	Bryan J. Boyle	09/17/2003	Y. Tom Tang	09/17/2003	Radoje T. Drmanac	09/17/2003	Chiaoyun Kuo	09/16/2003	Chenghua Liu	09/16/2003	Jian-Rui Wang	09/19/2003
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Chenghua Liu	09/16/2003														
Jian-Rui Wang	09/19/2003														
<b>RECEIVING PARTY DATA</b>															
<b>Name:</b>	Nuvelo, Inc.														
<b>Street Address:</b>	201 Industrial Road, Suite 310														
<b>City:</b>	San Carlos														
<b>State/Country:</b>	CALIFORNIA														
<b>Postal Code:</b>	94070														
<b>PROPERTY NUMBERS Total: 1</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12195282</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12195282										
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Application Number:	12195282														
<b>CORRESPONDENCE DATA</b>															
<b>Fax Number:</b>	(650)517-8003														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
<b>Phone:</b>	650-517-8422														
<b>Email:</b>	rpolizotto@nuvelo.com														
<b>Correspondent Name:</b>	Renee S. Polizotto														
<b>Address Line 1:</b>	201 Industrial Road, Suite 310														
<b>Address Line 4:</b>	San Carlos, CALIFORNIA 94070														
<b>ATTORNEY DOCKET NUMBER:</b>	HYS-21CIPC1														
<b>NAME OF SUBMITTER:</b>	Renee S. Polizotto														

CH \$40.00 12195282

**Total Attachments: 16**

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# ASSIGNMENT

Serial No: 10/311,829  
International Filing Date: January 25, 2001  
Title: METHODS AND MATERIALS RELATING TO CD84-LIKE POLYPEPTIDES  
AND POLYNUCLEOTIDES

For One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign to NUVELO, Inc., a Nevada corporation, 675 Almanor Avenue, Sunnyvale, California, 94085, (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in the above-identified application for Letters Patent of the United States, and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS my hand this 17 day of September, 2003.

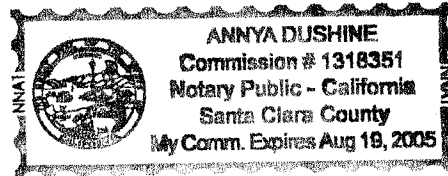
State of California }  
County of Santa Clara } ss. Bryan J. Boyle  
Bryan Boyle

On this 17<sup>th</sup> day of September 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Bryan Boyle to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

[Signature]  
Notary Public

My Commission Expires: 8/19/05



WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Chiaoyun Kuo

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Jian-Rui Wang

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

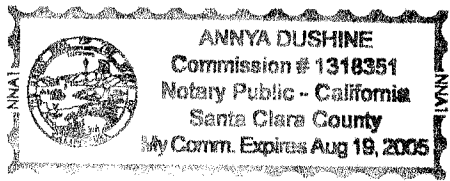
WITNESS my hand this 17<sup>th</sup> day of September, 2003.

State of California }  
County of Santa Clara } ss. Y. Tom Tang  
Y. Tom Tang

On this 17<sup>th</sup> day of September, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Y. Tom Tang to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

[Signature]  
\_\_\_\_\_  
Notary Public  
My Commission Expires: 8/19/2005



WITNESS my hand this 17 day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Chenghua Liu

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

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\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

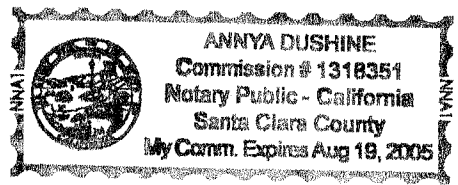
WITNESS my hand this 17 day of Sept, 2003.

State of California }  
County of Santa Clara } ss. [Signature]  
Radoje T. Drmanac

On this 17th day of September, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Radoje Drmanac to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

[Signature]  
Notary Public  
My Commission Expires: 8/19/05



# ASSIGNMENT

Serial No: 10/311,829  
International Filing Date: January 25, 2001  
Title: METHODS AND MATERIALS RELATING TO CD84-LIKE POLYPEPTIDES  
AND POLYNUCLEOTIDES

For One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign to NUVELO, Inc., a Nevada corporation, 675 Almanor Avenue, Sunnyvale, California, 94085, (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in the above-identified application for Letters Patent of the United States, and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

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For said consideration the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Bryan Boyle

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

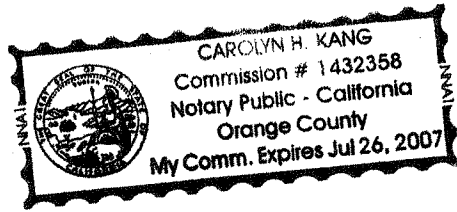
WITNESS my hand this 16th day of Sept., 2003.

State of California }  
County of Orange } ss. [Signature]  
Chiaoyun Kuo

On this 16th day of Sept., 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Chiaoyun Kuo to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

[Signature] 9/16/03  
Notary Public  
My Commission Expires: \_\_\_\_\_





WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Jian-Rui Wang

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Y. Tom Tang

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

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\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_

County of \_\_\_\_\_



ss.

\_\_\_\_\_  
Chenghua Liu

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\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_

County of \_\_\_\_\_



ss.

\_\_\_\_\_  
Radoje T. Drmanac

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

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\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

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WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Bryan Boyle

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Chiaoyun Kuo

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Jian-Rui Wang

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\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

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State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Y. Tom Tang

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\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

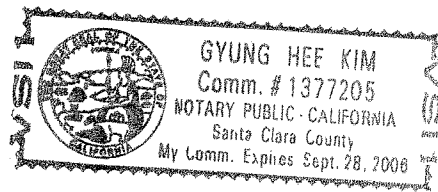
WITNESS my hand this 16th day of September, 2003.

State of California  
County of Santa Clara } ss. [Signature]  
Chenghua Liu

On this 16th day of Sept, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared CHENGHUA LIU to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

[Signature]  
Notary Public  
My Commission Expires: Sept. 28, 2006



WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Radoje T. Drmanac

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

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WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Bryan Boyle

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

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State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Chiaoyun Kuo

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WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_



WITNESS my hand this 19<sup>th</sup> day of September, 2003.

State of California  
County of Alameda } ss. Jian-Rui Wang  
Jian-Rui Wang

On this 19 day of September, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Jian-Rui Wang to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

Kathrine M. Rejcek  
Notary Public  
My Commission Expires: April 30, 2004

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Y. Tom Tang

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Chenghua Liu

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss. \_\_\_\_\_  
Radoje T. Drmanac

On this \_\_\_\_ day of \_\_\_\_\_, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared \_\_\_\_\_ to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_