

Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 1

ASSIGNMENT

WHEREAS, We, Adrian Ion Bot, a citizen of Romania, residing at 24406 West Gable Ranch Lane, Valencia, California, 91354; Chih-Sheng Chiang, a citizen of the United States of America, residing at 10339 Oakdale Avenue, Chatsworth, California, 91311; David C. Diamond, a citizen of the United States of America, residing at 23135 Schoenborn Street, West Hills, California, 91304; Jian Gong, a citizen of China, residing at 17726 Kinzie Street, Unit 40, Northridge, CA 91325; Kent Andrew Smith, a citizen of the United States of America, residing at 2916 Bayshore Avenue, Ventura, CA 93001; Liping Liu, a citizen of Canada, residing at 9318 Witch Hazel Way, Manassas, Virginia, 20110; Xiping Liu, a citizen of the United States of America, residing at 6035 Camellia Avenue, Temple City, California, 91780; and Zhiyong Qiu, a citizen of Canada, residing at 3175 Sepulveda Blvd. #208, Los Angeles, California, 90034, have invented certain new and useful improvements in MULTIVALENT ENTRAIN-AND-AMPLIFY IMMUNOTHERAPEUTICS FOR CARCINOMA for which we have filed an application for Letters Patent in the United States, Application No. 11/455,279, filed on June 16, 2006;

AND WHEREAS, MANNKIND CORPORATION (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 28903 North Avenue Paine, Valencia, California 91355, 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, 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 ASSIGNEE, 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 provisional applications relating thereto, 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 ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE DO HEREBY sell, assign, transfer, and convey to ASSIGNEE, his successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Letters Patent before or after issuance.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, 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 ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 2

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 02 day of Aug, 2006

Adrian Ion Bot
Adrian Ion Bot

STATE OF California }
COUNTY OF Los Angeles } ss.

On 8-2-06, before me, N. Sparks, personally appeared Adrian Ion Bot personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]




N. Sparks
Notary Signature

Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 3

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18th day of August, 2006


Chih-Sheng Chiang

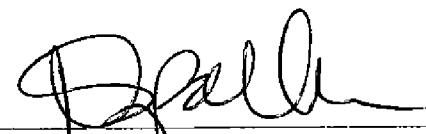
STATE OF California }
COUNTY OF Los Angeles } ss.

On 8.18.06, before me, N. Sparks, personally appeared Chih-Sheng Chiang personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]




Notary Signature

Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 4

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18th day of August, 2006



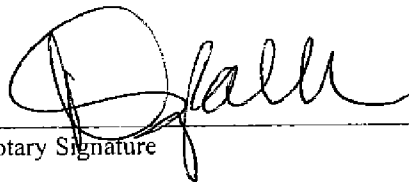
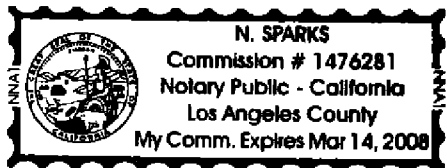
David C. Diamond

STATE OF California
COUNTY OF Los Angeles } ss.

On 8.18.06, before me, N. Sparks, personally appeared David C. Diamond personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

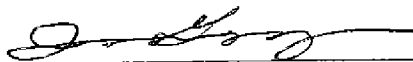
[SEAL]


Notary Signature

Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 5

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18 day of August, 2006

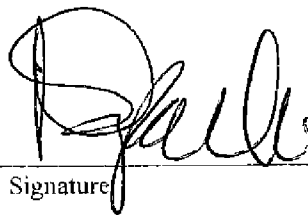


Jian Gong

STATE OF California }
COUNTY OF Los Angeles } ss.

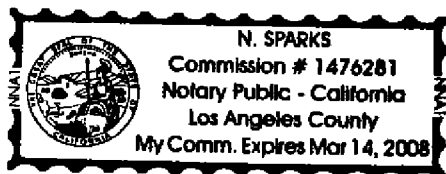
On 8.18.06, before me, N. Sparks, personally appeared Jian Gong personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Notary Signature

[SEAL]



Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 6

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21 day of August, 2006



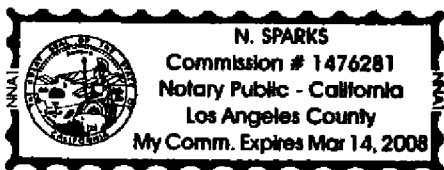
Kent Andrew Smith


STATE OF California)
COUNTY OF Los Angeles) ss.

On 8.21.06, before me, N. Sparks, personally appeared Kent Andrew Smith personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]





Notary Signature

Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 7

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17th day of August, 2006




Liping Liu

STATE OF Virginia }
COUNTY OF P. William } ss.

On 8-17-06, before me, Melissa J. Scott, personally appeared Liping Liu personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Notary Signature
My Comm. Exps. April 30, 2009

Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 8

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17 day of Aug, 2006

Xiping Liu
Xiping Liu

STATE OF California }
COUNTY OF Los Angeles } ss.

On 8-17-06, before me, N. Sparks, personally appeared Xiping Liu personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



N. Sparks
Notary Signature

Application No.: 11/455,279
Filing Date: June 16, 2006

PATENT
Client Code: MANNK.054A
Page 9

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2nd day of August, 2006



Zhiyong Qiu

STATE OF California }
COUNTY OF Los Angeles } ss.


On 8-2-06, before me, N. Sparks, personally appeared Zhiyong Qiu personally known to me (or ~~proved to me on the basis of satisfactory evidence~~) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



2774641 072406 jes



Notary Signature