CH \$40.00 111410 11455279

Client Code: MANNK.054A

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

To the Director, 6.6.1 dient and Tracement	the state of the s
 Name of conveying party(ies): (List using letters or numbers for multiple parties) 	Name and address of receiving party(ies): Name: MannKind Corporation
 Adrion Ion Bot Chih-Sheng Chiang David C. Diamond Jian Gong Kent Andrew Smith Liping Liu Zhiyong Qiu 	Internal Address: Street Address: 28903 North Avenue Paine City: Valencia State: California
Additional name(s) of conveying party(ies) attached?	ZIP: 91355 Additional name(s) of receiving party(ies) attached?
() Yes (X) No	() Yes (X) No
3. Nature of conveyance: (X Assignment () Security Agreement () Merger () Change of Name () Other:	US or PCT Application number(s) or US Patent
Execution Date: (List as in section 1 if multiple	number(s):
signatures) 1. August 2, 2006 2. August 18, 2006 3. August 18, 2006 4. August 18, 2006	(X) Patent Application No.: 11/455,279 Filing Date: June 16, 2006
5. August 21, 2006 6. August 17, 2006	Additional numbers attached?
7. August 17, 2006 8. August 2, 2006	() Yes (X) No
Party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved: one
Customer No. 20,995	
Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14 th Floor Irvine, CA 92614	
Return Fax: (949) 760-9502	·
Attorney's Docket No.: MANNK.054A	
7. Total fee (37 CFR 1.21(h)): \$40.00	8. Deposit account number: 11-1410
(X) Authorized to be charged to deposit account	Please charge this account for any additional fees which may be required, or credit any overpayment to this account.
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.	
Marc T. Morley Name of Person Signing Marc T. Morley Signature 1/10/2007 Date	
52,051 Registration No.	
Total number of pages including cover sheet, attachments and document: 1	
Documents transmitted via Facsimile to be recorded with required cover sheet information to:	

Mail Stop Assignment Recordation Services

Director, U.S. Patent and Trademark Office P.O. Box 1450

Alexandria, VA 22313-1450 Facsimile Number: (571) 273-0140

3224281 121806

PATENT

700305477 REEL: 018760 FRAME: 0044

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.

PATENT

Client Code: MANNK.054A

Page 2

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

COUNTY OF LOS Avgeles ss.

, 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 Commission # 1476281 Notary Public - California Los Angeles County My Comm. Expires Mar 14, 2008

Notary Signature

PATENT

Client Code: MANNK.054A

Page 3

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

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

Chih-Sheng Chiang

STATE OR California } ss.

on S. 16.05, before me, S. 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]

N. SPARKS
Commission # 1476281
Notary Public - California
Los Angeles County
My Comm. Expires Mar 14, 2008

Notary Signatur

PATENT

Client Code: MANNK.054A

Page 4

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

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

David C. Diamond

STATE OF California } ss.

On before me, before me, 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]

N. SPARKS
Commission # 1476281
Notary Public - California
Los Angeles County
My Comm. Expires Mar 14, 2008

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

country of Les Angeles

_, personally appeared Jian Gong personally On 8 B Oo before me, 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 Commission # 1476281 Notary Public - California Los Angeles County My Comm. Expires Mar 14, 2008 Notary Signature

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 // day

STATE OF California) COUNTY OF LOS ANGUES

, 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]

N. SPARKS Commission # 1476281 Notary Public - California Los Angeles County My Comm. Expires Mar 14, 2008

Notary Signature

PATENT

REEL: 018760 FRAME: 0050

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

COUNTY OF Pr. 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, 2000

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

Xiping Liu

COUNTY OF LIS Argels

before me,

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 Commission # 1476281 Notary Public - California Los Angeles County My Comm. Expires Mar 14, 2008

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 Angra

Zhiyong Qit

STATE OF COUNTY OF LOS Angeles ss.

on 6.7.06, before me, 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

N. SPARKS
Commission # 1476281
Notary Public - California
Los Angeles County
My Comm. Expires Mar 14, 2008

Notary Signati

RECORDED: 01/10/2007