

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2009)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

## RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents, or the new address(es) below

### 1. Name of conveying party(ies)/Execution Date(s):

JERRY STOCK (06/21/2007), MAXWELL  
STOCK (06/21/2007), HAOMING GU  
(06/21/2007), GREGORY STOCK (06/21/2007),

Execution Date(s): in parentheses after inventor name

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

### 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

### 2. Name and address of receiving party(ies)

Name: SIGNUM BIOSCIENCES, INC.

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

1 DEER PARK DRIVE, SUITE L-2

City: MONMOUTH JUNCTION

State: NEW JERSEY

Country: United States of America Zip: 08852

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

### 4. Application or patent number(s):

A. Patent Application No.(s)

11/346,706

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Shawn P. Foley  
LERNER, DAVID, LITTENBERG,  
KRUMHOLZ & MENTLIK, LLP

Internal Address: Atty. Dkt.: SIGNUM 3.0-003

Street Address: 600 South Avenue West

City: Westfield

State: NJ Zip: 07090

Phone Number: (908) 518-6346

Fax Number: (908) 654-0415

Email Address: sfoley@ldlkm.com

### 6. Total number of applications and patents involved:

1

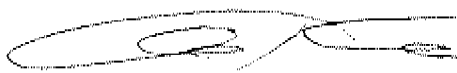
### 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

### 8. Payment Information

- a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
b. Deposit Account Number 12-1095  
Authorized User Name Shawn P. Foley

### 9. Signature:



Signature

August 17, 2007

Date

Arnold H. Krumholz - 25,428

Name of Person Signing

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

8

CH \$40.00 121095 11346706

Form PTO-1595		RECORDATION FORM COVER SHEET (continued)	
Additional Conveying Party(ies)/Execution Date(s) (1. Continued): Zhu Li (07/16/2007), and Peter Wolanin (06/21/2007)			
Additional Assignees (2. Continued):			
Assignee Name: _____ Internal Address: _____ Street Address: _____  City: _____ State: _____ Country: _____ Zip: _____			
Assignee Name: _____ Internal Address: _____ Street Address: _____  City: _____ State: _____ Country: _____ Zip: _____			
Assignee Name: _____ Internal Address: _____ Street Address: _____  City: _____ State: _____ Country: _____ Zip: _____			
Additional Applications and/or Patents (4. Continued):			
Additional Patent Application Numbers 4A. Continued:		Additional Patent Numbers 4B. Continued:	
Additional numbers attached?		<input type="checkbox"/> Yes <input type="checkbox"/> No	

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>SIGNUM 3.0-003</b>
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Whereas, I, Jeffrey Stock of  
6 Washington Street, Rocky Hill, New Jersey 08553  
 hereafter referred to as assignor, have with others invented certain new and useful improvements in  
COMPOSITIONS AND METHODS FOR ENHANCING COGNITIVE FUNCTION  
☒ for which an application for a United States Letters Patent was filed on February 3, 2006  
 Application Number 11/346,706  
☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and \_\_\_\_\_

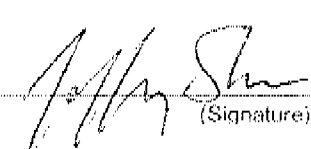
Whereas, SIGNUM BIOSCIENCES, INC.  
 a corporation of Delaware herein referred to as "assignee" whose mailing address is  
1 Deer Park Drive, Suite L-2, Monmouth Junction, New Jersey 08852  
 is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 60/649,902 filed February 3, 2005, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 60/649,902 pursuant to any law or treaty in the countries of the world.


And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

6-21-07  
 (Date)

  
 (Signature)

State of New Jersey ) SS:  
 County of Middlesex )

On this 21st day of June, 2007, before me personally came the above-named Jeffrey Stock, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

  
 (Notary Public)

☒ \*Total of 6 forms are submitted.

LD-550/

 L. N. RUSKUSKI  
 MY COMMISSION  
 EXPIRES 7-1-2010

**PATENT**  
**REEL: 019719 FRAME: 0317**

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>SIGNUM 3.0-003</b>
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Whereas, I, Maxwell Stock of  
6 Washington Street; Rocky Hill, New Jersey 08553  
 hereafter referred to as assignor, have with others invented certain new and useful improvements in  
COMPOSITIONS AND METHODS FOR ENHANCING COGNITIVE FUNCTION  
☒ for which an application for a United States Letters Patent was filed on February 3, 2006  
 Application Number 11/346,706  
☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and \_\_\_\_\_


Whereas, SIGNUM BIOSCIENCES, INC.  
 a corporation of Delaware herein referred to as "assignee" whose mailing address is  
1 Deer Park Drive, Suite L-2; Monmouth Junction, New Jersey 08852  
 is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 60/649,902 filed February 3, 2005, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 60/649,902 pursuant to any law or treaty in the countries of the world

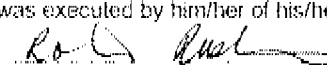
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

6.21.07  
 (Date)

  
 (Signature)

State of New Jersey ) SS:  
 County of Middlesex )

On this 21st day of June, 2007 before me personally came the above-named Maxwell Stock, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

  
 (Notary Public)

☒ \*Total of 6 forms are submitted.

LD-530/

ROBIN RUSKUSKI  
 MY COMMISSION  
 EXPIRES 7/28/2010

**PATENT**  
**REEL: 019719 FRAME: 0318**

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>SIGNUM 3.0-003</b>
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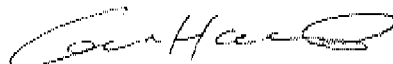
Whereas, I, Haoming Gu of  
423 Plainsboro Road; Plainsboro, New Jersey 08536  
 hereafter referred to as assignor, have with others invented certain new and useful improvements in  
COMPOSITIONS AND METHODS FOR ENHANCING COGNITIVE FUNCTION  
☒ for which an application for a United States Letters Patent was filed on February 3, 2006  
 Application Number 11/346,706  
☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and \_\_\_\_\_

Whereas, SIGNUM BIOSCIENCES, INC.  
 a corporation of Delaware herein referred to as "assignee" whose mailing address is  
1 Deer Park Drive, Suite L-2; Monmouth Junction, New Jersey 08852  
 is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

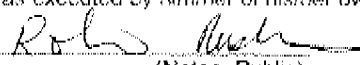
I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 60/649,902 filed February 3, 2005, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 60/649,902 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

6.21.07 (Date)   
(Signature)

State of New Jersey ) SS:  
 County of Middlesex )

On this 21st day of June, 2007, before me personally came the above-named Haoming Gu, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

  
 (Notary Public)

☒ \*Total of 6 forms are submitted.

LD-530/

ROBIN RUSKUSKI  
 MY COMMISSION  
 EXPIRES 7/28/2010

**PATENT**  
**REEL: 019719 FRAME: 0319**

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>SIGNUM 3.0-003</b>
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Whereas, I, Zhu Li of  
216B Halscy Street; Princeton, New Jersey 08540  
 hereafter referred to as assignor, have with others invented certain new and useful improvements in  
COMPOSITIONS AND METHODS FOR ENHANCING COGNITIVE FUNCTION  
☒ for which an application for a United States Letters Patent was filed on February 3, 2006  
 Application Number 11/346,706  
☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and \_\_\_\_\_

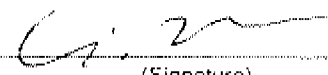
Whereas, SIGNUM BIOSCIENCES, INC.  
 a corporation of Delaware herein referred to as "assignee" whose mailing address is  
1 Deer Park Drive, Suite L-2, Monmouth Junction, New Jersey 08852  
 is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof  
 is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said  
 assignee my entire right, title and interest for the United States of America and all other countries in and to said  
 invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part,  
 substitute or reissue applications and patents applied for or granted therefor in the United States of America and all  
 other countries, for said invention, including without limitation all applications and patents for said invention claiming  
 priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such  
 priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all  
 patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein;  
 and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without  
 further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for  
 Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to  
 said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever  
 requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may  
 become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid  
 assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the  
 expenses incident to said applications to be borne and paid by said assignee

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application  
 No. 60/649,902 filed February 3, 2005, and in the invention disclosed thereto in all countries of the world including the  
 right to claim priority or benefit of said Application No. 60/649,902 pursuant to any law or treaty in the countries of the  
 world.


And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application  
 when known.

07/21/07  
 (Date)

  
 (Signature)

State of New Jersey ) SS:  
 County of Middlesex )

On this 16th day of July, 2007, before me personally came the above-named Zhu Li, to me  
 personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was  
 executed by him/her of his/her own free will for the purposes therein set forth.

 ROBIN RUSKUSKI  
 (Notary Public) MY COMMISSION  
EXPIRES 7/28/2010

<input checked="" type="checkbox"/> *Total of <u>6</u> forms are submitted.	LD-530/
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<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>SIGNUM 3.0-003</b>
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Whereas, I, Peter Wolanin of  
156 Spruce Street; Princeton, New Jersey 08742  
 hereafter referred to as assignor, have with others invented certain new and useful improvements in  
COMPOSITIONS AND METHODS FOR ENHANCING COGNITIVE FUNCTION  
☒ for which an application for a United States Letters Patent was filed on February 3, 2006  
 Application Number 11/346,706  
☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and \_\_\_\_\_

Whereas, SIGNUM BIOSCIENCES, INC.  
 a corporation of Delaware herein referred to as "assignee" whose mailing address is  
1 Deer Park Drive, Suite L-2; Monmouth Junction, New Jersey 08852  
 is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.


I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 60/649,902 filed February 3, 2005, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 60/649,902 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

6.21.07 (Date)  (Signature)

State of New Jersey ) SS:  
 County of Hudson )

On this 21st day of June, 2007 before me personally came the above-named Peter Wolanin, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

  
 (Notary Public)

<input checked="" type="checkbox"/>	*Total of <u>6</u> forms are submitted.	FORM 1 (Rev. 10/01)
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ROBIN RUSKUS  
 MY COMMISSION  
 EXPIRES 7/28/2010

**PATENT**  
**REEL: 019719 FRAME: 0321**

## ASSIGNMENT OF UTILITY APPLICATION

former PTO/SB/15 (5-00) Modified LDLKM  
Docket Number (Optional)

SIGNUM 3.0-003

Whereas, I, Gregory Stock of  
48 Maple Street, Princeton, New Jersey 08542

hereafter referred to as assignor, have with others invented certain new and useful improvements in

COMPOSITIONS AND METHODS FOR ENHANCING COGNITIVE FUNCTION

☒ for which an application for a United States Letters Patent was filed on February 3, 2006

Application Number 11/345,706

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and \_\_\_\_\_

Whereas, SIGNUM BIOSCIENCES, INC.  
 is a corporation of Delaware herein referred to as "assignee" whose mailing address is

1 Deer Park Drive, Suite L-2, Monmouth Junction, New Jersey 08852

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 60/649,902 filed February 3, 2005, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 60/649,902 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

6/21/07

(Date)

State of New Jersey ) SS:  
 County of Middlesex )

(Signature)

On this 21st day of JUNE, 2007 before me personally came the above-named Gregory Stock, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Robin Rusk  
 (Notary Public)

ROBIN RUSK, Notary  
 MY COMMISSION

EXPIRES 7/28/2010

☒ \*Total of 6 forms are submitted.

LD 5307