

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):

ARCXIS BIOTECHNOLOGIES
6920 KNOLL CENTER PKWY STE 215
PLEASANTON CA 94566

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

3. Nature of conveyance/Execution Date(s):

Execution Date: September 30, 2008

- Assignment
- Security Agreement
- Joint Research Agreement
- Merger
- Change of Name

Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other: CORRECTIVE STATEMENT. Please reference Reel/Frame 021603/0873. The conveying and receiving parties were filed in error; Conveying Party should be read as: ARCXIS BIOTECHNOLOGIES, Receiving Party should be read as: SILICON VALLEY BANK

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

Name: SILICON VALLEY BANK

Internal Address:

Street Address: 3003 TASMAN DRIVE

City: SANTA CLARA

State: CA

Country: USA Zip: 95054

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

4. Application or patent number(s):

A. Patent Application No.(s)

10701097

11186983

11402656

11959435

This document is being filed together with a new application.

B. Patent No.(s)

6472443

7311882

6832787

7524672

Additional numbers attached? Yes No

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

Name: UCC Direct Services

Internal Address: Attn: 14080632

Street Address: 187 Wolf Road, Suite 101

City: Albany

State: NY

Zip: 12205

Phone Number: 1-800-342-3676 X 4065

Fax Number: 1-800-962-7049

Email Address: cls-udsalbany@wolterskluwer.com

6. Total number of applications and patents involved: 8

7. Total fee (37 CFR 1.21 (h) & 3.41) \$ 320 -

- 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 5683

Expiration Date 11/09

b. Deposit Account Number

Authorized User Name

9. Signature:



Signature

7/13/09

Date


Susan O'Brien
Name of Person Signing

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

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

**PATENT
REEL: 023015 FRAME: 0766**


10/01/2008
700386318

FORM PTO-1285 (Rev. 09/01) Office OMB No. 0681-0027 (exp. 06/30/2008)		U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark	
RECORDATION FORM COVER SHEET PATENTS ONLY			
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents at the new address(es) below.			
1. Name of conveying party(ies): SILICON VALLEY BANK 3003 TASMAN DRIVE SANTA CLARA, CA. 95054 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: ARCOIS BIOTECHNOLOGIES Internal Address: Street Address: 8920 KNOLL CENTER PKWY STE 210 City: PLEASANTON State: CA Country: USA Zip: 94586 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance/Execution Date(s): Execution Date: September 30, 2008 <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input checked="" type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order #424, Confirmatory License <input type="checkbox"/> Other:		4. Application or patent number(s): A. Patent Application No.(s) 10048820 11180883 10701897 11402666 11858435 B. Patent No.(s) 6532787 6472443 7311883 <input type="checkbox"/> This document is being filed together with a new application.	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: UCC Direct Services Internal Address: Attn: 1408832 Street Address: 187 Wolf Road, Suite 101 City: Albany State: NY Zip: 12205 Phone Number: 1-800-342-3676 X 4085 Fax Number: 1-800-662-7048 Email Address: cla-ucbaiberry@prokera.com		6. Total number of applications and patents involved: 8 7. Total fee (37 CFR 1.21 (h) & 3.41) \$ 326.00 <input checked="" type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
9. Signature:  Signature		8. Payment Information a. Credit Card Last 4 Numbers 5683 Expiration Date 11/09 b. Deposit Account Number Authorized User Name	
		Total number of pages including cover sheet, attachments, and documents:	

Documents to be recorded (including cover sheet) should be filed in (671) 273-8149, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1428, Alexandria, VA 22313-1428

TO:UCC DIRECT SERVICES COMPANY:ATTN: 14080632

07/15/2009
700412940

FORM PTO-1595 (Rev. 08/06) Office OMB No. 0851-0027 (exp. 06/30/2008)		U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark	
RECORDATION FORM COVER SHEET			
PATENTS ONLY			
<i>To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.</i>			
1. Name of conveying party(ies): ARCXIS BIOTECHNOLOGIES 8920 KNOLL CENTER PKWY STE 215 PLEASANTON CA 94388 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: SILICON VALLEY BANK Internal Address: Street Address: 3803 TASMAN DRIVE City: SANTA CLARA State: CA Country: USA Zip: 95064 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance/Execution Date(s): Execution Date: September 30, 2008 <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 8424, Confirmatory License <input checked="" type="checkbox"/> Other: CORRECTIVE STATEMENT. Please reference Root/Frame 021603/0873. The conveying and receiving parties were filed in error; Conveying Party should be read as: ARCXIS BIOTECHNOLOGIES, Receiving Party should be read as: SILICON VALLEY BANK		4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application.	
A. Patent Application No.(s) 10701087 11180883 11402858 11958435		B. Patent No.(s) 6472443 7311882 6832787 7624672	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: UCC Direct Services Internal Address: Attn: 14880632 Street Address: 187 Wolf Road, Suite 101 City: Albany State: NY Zip: 12205 Phone Number: 1-800-342-3878 X 4085 Fax Number: 1-800-982-7049 Email Address: cls-udsvalberry@wolterskluwer.com		6. Total number of applications and patents involved: 8 7. Total fee (37 CFR 1.21 (b) & 3.41) \$ 320 - <input checked="" type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
		8. Payment Information a. Credit Card Last 4 Numbers 5683 Expiration Date 11/09 b. Deposit Account Number Authorized User Name	
9. Signature:  Signature		7/13/09 Date	
Susan O'Brien Name of Person Signing		Total number of pages including cover sheet, attachments, and documents:	

Documents to be recorded (including cover sheet) should be faxed to (571) 273-6140, or mailed to:

USPTO

7/17/2009 8:46:41 AM

PAGE

3/014

Fax Server

TO:UCC DIRECT SERVICES COMPANY:ATTN: 14080632

PUBLIC RECORDS DIVISION

PATENT
REEL: 023015 FRAME: 0769

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of the Effective Date by and between SILICON VALLEY BANK ("Bank") and ARCXIS BIOTECHNOLOGIES ("Grantor").

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodation to Grantor (the "Loan") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor dated the Effective Date (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"); capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make the Loan to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks, Patents, and Mask Works to secure the obligations of Grantor under the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Loan Agreement, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual property (including without limitation those copyrights, patents, trademarks and mask works listed on Exhibits A, B, C, and D hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions, continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Bank's security interest in Grantor's Intellectual property and this Intellectual Property Security Agreement shall be automatically terminated and released upon the occurrence of the Release Event (as defined in the Loan Agreement) and Bank shall thereupon promptly take all action necessary, at Grantor's expense, to (i) release any filings made with the US Patent and Trademark Office and the US Copyright Office with respect to Grantor's intellectual property, and (ii) file an amendment with the California Secretary of State's Office on form UCC-3 to reflect the release of Bank's security interest in such intellectual property.

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:

6920 Koll Center Parkway, Suite 125
Pleasanton, CA 94566

Attn: Christine Mada

ARCXIS BIOTECHNOLOGIES

By: 

Title: President, CEO

BANK:

Address of Bank:

185 Berry Street, Suite 300
San Francisco, CA 94107

Attn: Lindsay Schwalle

SILICON VALLEY BANK

By: _____

Title: _____

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above

GRANTOR:

Address of Grantor:

ARCXIS BIOTECHNOLOGIES

6920 Koll Center Parkway, Suite 125
Pleasanton, CA 94588

By: _____

Attn: Christine Meda

Title: _____

BANK:

Address of Bank:

SILICON VALLEY BANK

185 Berry Street, Suite 300
San Francisco, CA 94107

By:  _____

Attn: Lindsay Schwallie

Title: Senior Relationship Manager

EXHIBIT A

Copyrights

Description	Registration Application Number	Registration Application Date
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none

EXHIBIT B

Patents

Description	Registration Application Number	Registration Application Date
SD-8368/S-88864: "Edge Compression Manifold Apparatus." Inventor: Ronald F. Renzi. Class Waiver granted 08/18/02. Patent No. 6832787 issued 12/21/04.	6832787 ✓	8/15/2002 confirmed
"Porous polymer media" Inventor: Timothy J. Sheppard. Patent No. 6,472,443 issued October 28, 2002	6,472,443 ✓	6/22/2000 confirmed
SD-8524,0/ORD/S-104406: "Microfluidic Microarray Systems and Methods Thereof." Inventor(s): Gary A. Hux, Jason A. West, Kyle W. Hukari. Application No. 10/946,920, filed 9/22/2004. Class Waiver granted 5/21/2004.	20060063160 ✓	9/22/2004 confirmed
SD-8355/S-88863: "Capillary Interconnected Device." Inventor: Ronald F. Renzi. Class Waiver granted 07/26/02. Patent Application No. 10/350,541 filed 01/24/03.	10350541 ✓	1/24/2003
SD 8541 "A Sample Preparation Device for Integrated Lyses, Labeling and Analysis of Robust Bacteria, Bacterial Spores, and Viruses" Inventors - Jason A.A. West, Kyle Hukari, Ken Patel	2006034040 ✓ US80812989	08/04/2006 confirmed 9/24/2004
SD-8433,0/ORD/S-100428: "Microfluidic Integrated Microarrays for "Biological Detection." Inventor(s): Boyd J. Wiedenman, Jason A. A. West, Ronald F. Renzi, Stewart K. Griffiths, Timothy J. Sheppard. Application No. 10/701,097, filed 11/4/2003. Class Waiver granted 9/3/2003.	2805034846 ✓	11/4/2003
SD-8536,0/S-104450: "High-Density Specific Location Microarray Spotting Software." Inventor(s): Jason A. A. West, Kyle W. Hukari. Class Waiver granted 5/27/2004.	SD-8536,0/S-104450	
Apparatus and method for carrying out chemical or biological assays (lysing apparatus). Hukari, West. (2006) Patent Pending - Arcxis.	Pending	6/24/2006
Biomolecular assays utilizing cooperativity between assay components to enhance performance (CPA assay) Satterfield, West (2006) Patent Pending - Arcxis	60789287	App# 2007063229 11/10/2007
An integrated platform for rapid sample to answer genomic analysis (BioPhalanx) Hukari, West (2006) Patent filed May 16th - Arcxis	pending	6/16/2006
An integrated platform for rapid sample to answer genomic analysis (BioPhalanx) Hukari, West (2006) Patent filed May 16th - Arcxis	pending	5/17/2006
DISPOSABLE SAMPLE PREPARATION CARDS, METHODS, AND SYSTEMS THEREOF	60829079	10/11/2006 App# 2007011862
Systems and methods for effecting a physical change in a biological sample	602895 ✓	4/11/2006
Selection of Aptamers based on Geometry	6059435 ✓	12/18/2007

APPROVE 11959435

EXHIBIT B

Patents

Description	Registration Application Number	Registration Application Date
SD-8336/S-98864: "Edge Compression Manifold Apparatus." Inventor: Ronald F. Renzi. Class Waiver granted 08/16/02. Patent No. 6832787 Issued 12/21/04.	# 6832787	8/16/2002
"Porous polymer media" Inventor: Timothy J. Sheppard. Patent No. 6,472,443 Issued October 29, 2002	# 6,472,443	8/22/2000
SD-8524.0/ORD/S-104408: "Microfluidic Microarray Systems and Methods Thereof." Inventor(s): Gary A. Hux, Jason A. West, Kyle W. Hukari. Application No. 10/848,920, filed 8/22/2004. Class Waiver granted 5/21/2004.	# 20060063160	9/22/2004
SD-8366/S-98863: "Capillary Interconnected Device." Inventor: Ronald F. Renzi. Class Waiver granted 07/26/02. Patent Application No. 10/360,541 filed 01/24/03.	# 10/360,541	1/24/2003
SD 8541 "A Sample Preparation Device for Integrated Lyses, Labeling and Analysis of Robust Bacteria, Bacterial Spores, and Viruses" inventors - Jason A.A. West, Kyle Hukari, Ken Patel	# PCT2008034045 US80812,869	9/24/2004
SD-8433.0/ORD/S-100426: "Microfluidic Integrated Microarrays for "Biological Detection." Inventor(s): Boyd J. Wiedenman, Jason A. A. West, Ronald F. Renzi, Stewart K. Griffiths, Timothy J. Sheppard. Application No. 10/701,087, filed 11/4/2003. Class Waiver granted 9/3/2003.	# 2005034046	11/4/2003
SD-8538.0/S-104450: "High Density Specific Location Microarray Spotting Software." Inventor(s): Jason A. A. West, Kyle W. Hukari. Class Waiver granted 5/27/2004.	SD-8538.0/S-104450	
Apparatus and method for carrying out chemical or biological processes (lysing apparatus). Hukari, West (2006) Patent Pending -Arcxis	Pending	3/24/2006
Biomolecular assays utilizing cooperativity between assay components to enhance performance (CPA assay) Satterfield, West (2006) Patent Pending -Arcxis	60769267	
An integrated platform for rapid sample to answer genomic analysis (BioPhalanx) Hukari, West (2006) Patent filed May 16th -Arcxis	pending	5/16/2006
An integrated platform for rapid sample to answer genomic analysis (BioPhalanx) Hukari, West (2006) Patent filed May 16th -Arcxis	pending	5/17/2006
DISPOSABLE SAMPLE PREPARATION CARDS, METHODS, AND SYSTEMS THEREOF	60828079	10/11/2006
Systems and methods for effecting a physical change in a biological sample	402856	4/11/2006
Selection of Aptamers based on Geometry	958435	12/18/2007

10946920
 # 7311882
 # 11810983
 APP.

EXHIBIT C

Trademarks

<i>Description</i>	<i>Registration/ Application Number</i>	<i>Registration/ Application Date</i>
Arcxis Biotechnologies	77-152586	pending
Lysix	77-152592	Allowed: 6-17-2008
Tentacle Probes	77-152592	Allowed: 6-17-2008
Arcxis Biotechnologies	77-152598	pending

EXHIBIT C

Trademarks

Description	Registration Application Number	Registration Application Date
Arcxis Biotechnologies	77-152586	pending
Lysix	77-152802	Allowed: 8-17-2008
Tentacle Probes	77-152592	Allowed: 8-17-2008
Arcxis Biotechnologies	77-152589	pending

EXHIBIT D

Mask Works

Description	Registration/ Application Number	Registration/ Application Date
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none