

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

| Name                | Execution Date |
|---------------------|----------------|
| Ranjini Chatterjee  | 03/10/2009     |
| Kenneth W. Mitchell | 02/24/2009     |
| Susan Y. Louie      | 02/23/2009     |
| Richard J. Fox      | 03/09/2009     |
| Michelle Chin       | 02/27/2009     |

RECEIVING PARTY DATA

|                 |                     |
|-----------------|---------------------|
| Name:           | Codexis, Inc.       |
| Street Address: | 200 Penobscot Drive |
| City:           | Redwood City        |
| State/Country:  | CALIFORNIA          |
| Postal Code:    | 94063               |

PROPERTY NUMBERS Total: 1

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 11919271 |

CORRESPONDENCE DATA

Fax Number: (650)813-4848  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 650-813-4800  
Email: paula.hurley@dechert.com  
Correspondent Name: Dechert LLP  
Address Line 1: PO Box 390460  
Address Line 4: Mountain View, CALIFORNIA 94039-0460

ATTORNEY DOCKET NUMBER:

377804-007US (367228)

NAME OF SUBMITTER:

Ann M. Pease

PATENT

500805698

REEL: 022388 FRAME: 0128

CH \$40.00 11919271

**Total Attachments: 9**

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**PATENT**

**REEL: 022388 FRAME: 0129**

**ASSIGNMENT**

WHEREAS, we, the undersigned,

**Ranjini CHATTERJEE**, resident of 2118 Arthur Avenue, Belmont, California 94002,  
U.S.A.;

**Kenneth W. MITCHELL**, resident of 1550 Technology Drive, #3070, San Jose, California  
95110, U.S.A.;

**Susan Y. LOUIE**, resident of 928 Visitacion Avenue, San Francisco, California 94134,  
U.S.A.;

**Richard J. FOX**, resident of 21 Homewood Drive, Kirkwood, Missouri 63122, U.S.A.;

**Michelle CHEN**, resident of 51 Majestic Court #304, Moorpark, California 93021, U.S.A.;

("referred to as "Inventor") have invented certain new and useful improvements in "ALANINE  
2,3-AMINOMUTASES AND RELATED POLYNUCLEOTIDES" and have executed an application  
for U.S. Application having Serial No. 11/919,271, filing date of October 24, 2007, and

WHEREAS, CODEXIS, INC. (hereinafter termed "Assignee"), a corporation of the State of  
Delaware, having a place of business at 200 Penobscot Drive, Redwood City, California 94063, desires  
to acquire the entire right, title and interest in and to said application and the invention disclosed therein,  
and in and to all embodiments of the invention, heretofore conceived, made or discovered by said  
Inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's  
certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United  
States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration, receipt and sufficiency  
of which is acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventor does hereby sell, assign, transfer and convey unto said Assignee, the entire  
right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for  
foreign patents on said invention pursuant to the International Convention for the Protection of Industrial  
Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said  
invention in the United States or any foreign country, including each and every application filed and each  
and every patent granted on any application which is a division, substitution, or continuation of any of  
said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventor hereby covenants and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor, his/her respective heirs, legal representatives and assigns.

4. Said Inventor hereby warrants and represents that he/she has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventor has executed and delivered this instrument to said Assignee.

Date

5/10/09

By:



Ranjini CHATTERJEE

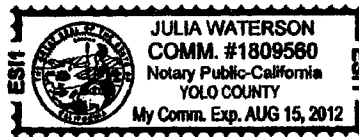
County of Yolo )  
State of California ) SS.

On this 10<sup>th</sup> day of March, in the year 2009, before me, Julia Waterson Notary Public, personally appeared Ranjini CHATTERJEE, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Julia Waterson  
(Notary Public)



(Seal)

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Kenneth W. MITCHELL**

County of \_\_\_\_\_ )  
State of \_\_\_\_\_ ) SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2008, before me, \_\_\_\_\_, Notary Public, personally appeared **Kenneth W. MITCHELL**, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_  
(Notary Public)

(Seal)

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Susan Y. LOUIE**

County of \_\_\_\_\_ )  
 ) SS.  
State of \_\_\_\_\_ )

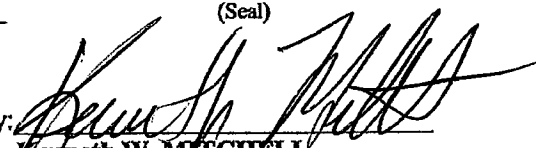
On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2008, before me, \_\_\_\_\_, Notary Public, personally appeared **Ranjini CHATTERJEE**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_  
(Notary Public)

Date 2/24/09

(Seal)  
By:   
**Kenneth W. MITCHELL**

County of San Mateo )  
 ) SS.  
State of California )

On this 24<sup>th</sup> day of February, in the year 2008, before me, Angelina M. Hook, Notary Public, personally appeared **Kenneth W. MITCHELL**, who 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/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Angelina M. Hook  
(Notary Public)

(Seal)



Date \_\_\_\_\_

By: \_\_\_\_\_  
**Susan Y. LOUIE**

County of \_\_\_\_\_, )  
 ) SS.  
State of \_\_\_\_\_, )

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2008, before me, \_\_\_\_\_, Notary Public, personally appeared **Ranjini CHATTERJEE**, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)  
(Notary Public)

Date \_\_\_\_\_ By: \_\_\_\_\_  
**Kenneth W. MITCHELL**

County of \_\_\_\_\_, )  
 ) SS.  
State of \_\_\_\_\_, )

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2008, before me, \_\_\_\_\_, Notary Public, personally appeared **Kenneth W. MITCHELL**, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)  
(Notary Public)

Date February 23, 2009

By:   
**Susan Y. LOUIE**

County of San Mateo )  
State of California ) SS.

AMH 2/23/09

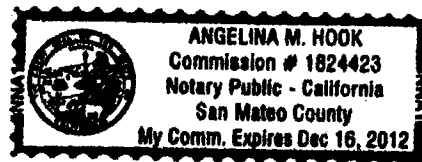
On this 23<sup>rd</sup> day of February, in the year 2008, before me, Angelina M. Hook, Notary Public, personally appeared Susan W. LOUIE, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Angelina M. Hook  
(Notary Public)

(Seal)



Date \_\_\_\_\_

By: \_\_\_\_\_  
**Richard J. FOX**

County of \_\_\_\_\_ )  
State of \_\_\_\_\_ ) SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2008, before me, \_\_\_\_\_, Notary Public, personally appeared **Richard J. FOX**, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_  
(Notary Public)

(Seal)

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Michelle CHEN**



County of \_\_\_\_\_ )  
 ) SS.  
State of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2008, before me, \_\_\_\_\_, Notary Public, personally appeared Susan Y. LOUIE, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)  
(Notary Public)

Date 3/9/09 By: [Signature]  
Richard J. FOX

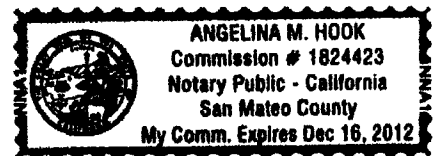
County of San Mateo )  
 ) SS.  
State of California )

On this 9<sup>th</sup> day of March, in the year 2009, before me, Angelina M. Hook, Notary Public, personally appeared Richard J. FOX, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Angelina M. Hook (Seal)  
(Notary Public)



Date \_\_\_\_\_ By: \_\_\_\_\_  
Michelle CHEN

County of \_\_\_\_\_ )  
 ) SS.  
State of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2008, before me, \_\_\_\_\_, Notary Public, personally appeared **Susan Y. LOUIE**, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)  
(Notary Public)

Date \_\_\_\_\_ By: \_\_\_\_\_  
**Richard J. FOX**

County of \_\_\_\_\_ )  
 ) SS.  
State of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2008, before me, \_\_\_\_\_, Notary Public, personally appeared **Richard J. FOX**, who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)  
(Notary Public)

Date 2 / 2 7 / 2 0 0 9

By: *Michelle Chen*  
**Michelle CHEN**



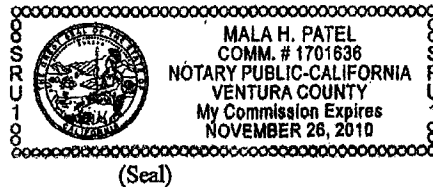
County of VENTURA )  
State of CALIFORNIA ) SS.

On this 27 day of FEBRUARY, in the year <sup>2009</sup>~~2008~~, before me, MALA H PATEL, Notary Public, personally appeared Michelle CHEN, who 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~~/she executed the same in ~~his~~/her authorized capacity, and that by ~~his~~/her signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Mala H. Patel  
(Notary Public)



MAHA H. PATEL  
COMM. # 1701636  
NOTARY PUBLIC-CALIFORNIA  
VENTURA COUNTY  
My Commission Expires  
NOVEMBER 26, 2010