

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																				
NATURE OF CONVEYANCE:	ASSIGNMENT																				
CONVEYING PARTY DATA																					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Fernando Valle</td> <td>01/24/2013</td> </tr> <tr> <td>Svetlana Balatskaya</td> <td>01/07/2013</td> </tr> <tr> <td>Yoram Barak</td> <td>01/08/2013</td> </tr> <tr> <td>Louis Clark</td> <td>01/09/2013</td> </tr> <tr> <td>Kristian Karlshoej</td> <td>01/16/2013</td> </tr> <tr> <td>Patricia Choudhary</td> <td>01/28/2013</td> </tr> <tr> <td>Catherine M. Cho</td> <td>01/07/2013</td> </tr> <tr> <td>Kaman Chan</td> <td>01/07/2013</td> </tr> <tr> <td>Jonathan Vroom</td> <td>01/04/2013</td> </tr> </tbody> </table>		Name	Execution Date	Fernando Valle	01/24/2013	Svetlana Balatskaya	01/07/2013	Yoram Barak	01/08/2013	Louis Clark	01/09/2013	Kristian Karlshoej	01/16/2013	Patricia Choudhary	01/28/2013	Catherine M. Cho	01/07/2013	Kaman Chan	01/07/2013	Jonathan Vroom	01/04/2013
Name	Execution Date																				
Fernando Valle	01/24/2013																				
Svetlana Balatskaya	01/07/2013																				
Yoram Barak	01/08/2013																				
Louis Clark	01/09/2013																				
Kristian Karlshoej	01/16/2013																				
Patricia Choudhary	01/28/2013																				
Catherine M. Cho	01/07/2013																				
Kaman Chan	01/07/2013																				
Jonathan Vroom	01/04/2013																				
RECEIVING PARTY DATA																					
<table border="1"> <tr> <td>Name:</td> <td>Codexis, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>200 Penobscot Drive</td> </tr> <tr> <td>City:</td> <td>Redwood City</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94063</td> </tr> </table>		Name:	Codexis, Inc.	Street Address:	200 Penobscot Drive	City:	Redwood City	State/Country:	CALIFORNIA	Postal Code:	94063										
Name:	Codexis, Inc.																				
Street Address:	200 Penobscot Drive																				
City:	Redwood City																				
State/Country:	CALIFORNIA																				
Postal Code:	94063																				
PROPERTY NUMBERS Total: 1																					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US2012069553</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US2012069553																
Property Type	Number																				
PCT Number:	US2012069553																				
CORRESPONDENCE DATA																					
<p>Fax Number: 6504218350  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: careyna.fujimoto@codexis.com</p> <p>Correspondent Name: Codexis, Inc.</p> <p>Address Line 1: 200 Penobscot Drive</p> <p>Address Line 4: Redwood City, CALIFORNIA 94063</p>																					
ATTORNEY DOCKET NUMBER:	CX5-106WO1																				

CH \$40.00 US2012069553

NAME OF SUBMITTER:

Lynn Marcus-Wyner

**Total Attachments: 15**

source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page1.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page2.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page3.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page4.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page5.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page6.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page7.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page8.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page9.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page10.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page11.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page12.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page13.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page14.tif  
source=CX5-106WO2\_Executed\_Assignment\_All\_Inventors#page15.tif

**ASSIGNMENT**

WHEREAS, we, the undersigned,

**Fernando VALLE**, resident of **Burlingame, California**;  
**Svetlana BALATSKAYA**, resident of **Fremont, California**;  
**Yoram BARAK**, resident of **Menlo Park, California**;  
**Louis CLARK**, resident of **San Francisco, California**;  
**Kristian KARLSHOEJ**, resident of **Santa Clara, California**;  
**Patricia CHOUDHARY**, resident of **Foster City, California**;  
**Catherine M. CHO**, resident of **Redwood City, California**;  
**Kaman CHAN**, resident of **San Bruno, California**;  
**Jonathan VROOM**, resident of **South San Francisco, California**;

(referred to hereinafter as "Inventors") have invented certain new and useful improvements in **"PRODUCTION OF SATURATED FATTY ALCOHOLS FROM ENGINEERED MICROORGANISMS"** and have filed an International patent application therefor, having Serial No. **PCT/US2012/069553** and filing date of **December 13, 2012**, and

WHEREAS, **Codexis, Inc.**, a corporation of the State of Delaware (referred to as "Assignee"), having a place of business at **200 Penobscot Drive, Redwood City, CA 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 Inventors (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") that claim priority to said application, 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 Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said inventions disclosed therein; (b) in and to all rights to claim priority benefit to said application, in the United States and abroad, pursuant to Title 35 U.S.C., the International Convention for the Protection of Industrial Property, or otherwise; (c) in and to all rights to apply for U.S. and foreign patents on said invention; (d) 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 non-provisional, divisional; substitution, continuation, or continuation-in-part of any of said applications; (e) in and to each and every reissue or reexamination of any of said patents; or (f) in and to extensions of any of said patents.

2. Said Inventors hereby covenant and agree 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 Inventors 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 Inventors 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 Inventors, his/her respective heirs, legal representatives and assigns.


4. Said Inventors 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 Inventors has executed and delivered this instrument to said Assignee.

Date 01-24-2013

By:   
**Fernando VALLE**

WITNESSES:

Signature: 

Printed Name: LYNN MARCUS-WYNEL

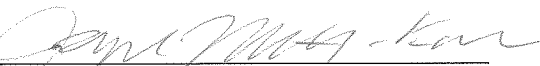
Signature: 

Printed Name: CAREYNA FUJIMOTO

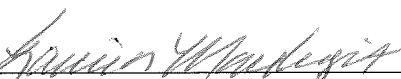
Date 1/7/2013

By:   
**Svetlana BALATSKAYA**

WITNESSES:

Signature: 

Printed Name: Jayne Mathier-Kane

Signature: 

Printed Name: KAMEN MACKNIGHT

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Yoram BARAK**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

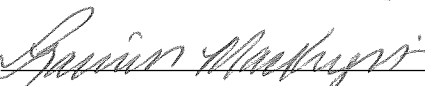
Date 1/9/2013

By:   
**Louis CLARK**

WITNESSES:

Signature: 

Printed Name: Careyna Fujimoto

Signature: 

Printed Name: KAMKIN MACKNIGHT

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Kristian KARLSHOEJ**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Patricia CHOUDHARY**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date 1/7/2013

By: Catherine M. CHO

**Catherine M. CHO**

WITNESSES:

Signature: Jayne Matlier-Kane

Printed Name: Jayne Matlier-Kane

Signature: Kamrin Macknight

Printed Name: KAMRIN MACKNIGHT

Date \_\_\_\_\_

By: \_\_\_\_\_

**Kaman CHAN**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date 01/04/2013

By: Jonathan VROOM

**Jonathan VROOM**

WITNESSES:

Signature: Adam Whiting

Printed Name: Adam Whiting

Signature: Careyna Fujimoto

Printed Name: Careyna Fujimoto

**ASSIGNMENT**

WHEREAS, we, the undersigned,

**Fernando VALLE**, resident of **Burlingame, California**;  
**Svetlana BALATSKAYA**, resident of **Fremont, California**;  
**Yoram BARAK**, resident of **Menlo Park, California**;  
**Louis CLARK**, resident of **San Francisco, California**;  
**Kristian KARLSHOEJ**, resident of **Santa Clara, California**;  
**Patricia CHOUDHARY**, resident of **Foster City, California**;  
**Catherine M. CHO**, resident of **Redwood City, California**;  
**Kaman CHAN**, resident of **San Bruno, California**;  
**Jonathan VROOM**, resident of **South San Francisco, California**;

(referred to hereinafter as "Inventors") have invented certain new and useful improvements in **"PRODUCTION OF SATURATED FATTY ALCOHOLS FROM ENGINEERED MICROORGANISMS"** and have filed an International patent application therefor, having Serial No. **PCT/US2012/069553** and filing date of **December 13, 2012**, and

WHEREAS, **Codexis, Inc.**, a corporation of the State of Delaware (referred to as "Assignee"), having a place of business at **200 Penobscot Drive, Redwood City, CA 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 Inventors (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") that claim priority to said application, 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 Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said inventions disclosed therein; (b) in and to all rights to claim priority benefit to said application, in the United States and abroad, pursuant to Title 35 U.S.C., the International Convention for the Protection of Industrial Property, or otherwise; (c) in and to all rights to apply for U.S. and foreign patents on said invention; (d) 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 non-provisional, divisional; substitution, continuation, or continuation-in-part of any of said applications; (e) in and to each and every reissue or reexamination of any of said patents; or (f) in and to extensions of any of said patents.

2. Said Inventors hereby covenant and agree 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 Inventors 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 Inventors 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 Inventors, his/her respective heirs, legal representatives and assigns.

4. Said Inventors 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 Inventors has executed and delivered this instrument to said Assignee.

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Fernando VALLE**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Svetlana BALATSKAYA**

WITNESSES:

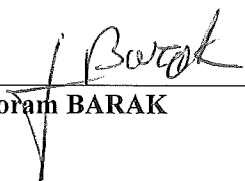
Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

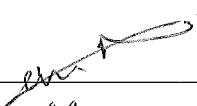
Date 1/08/2013

By:   
**Yoram BARAK**

WITNESSES:

Signature: 

Printed Name: Daniel Barak

Signature: 

Printed Name: Maryem Bouzick

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Louis CLARK**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Kristian KARLSHOEJ**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date 01-28-2013

By:   
**Patricia CHOUDHARY**

WITNESSES:

Signature:  \_\_\_\_\_

Printed Name: NEHAL CHOUDHARY

Signature:  \_\_\_\_\_

Printed Name: JASIKA AKHIL.

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Catherine M. CHO**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

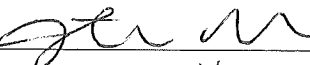
Date JAN 7, 2013

By:   
**Kaman CHAN**

WITNESSES:

Signature: 

Printed Name: CHARLIE KIM

Signature: 

Printed Name: Jonathan Vroom

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Jonathan VROOM**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

## ASSIGNMENT

WHEREAS, we, the undersigned,

**Fernando VALLE**, resident of **Burlingame, California**;  
**Svetlana BALATSKAYA**, resident of **Fremont, California**;  
**Yoram BARAK**, resident of **Menlo Park, California**;  
**Louis CLARK**, resident of **San Francisco, California**;  
**Kristian KARLSHOEJ**, resident of **Santa Clara, California**;  
**Patricia CHOUDHARY**, resident of **Foster City, California**;  
**Catherine M. CHO**, resident of **Redwood City, California**;  
**Kaman CHAN**, resident of **San Bruno, California**;  
**Jonathan VROOM**, resident of **South San Francisco, California**;

(referred to hereinafter as "Inventors") have invented certain new and useful improvements in **"PRODUCTION OF SATURATED FATTY ALCOHOLS FROM ENGINEERED MICROORGANISMS"** and have filed an International patent application therefor, having Serial No. **PCT/US2012/069553** and filing date of **December 13, 2012**, and

WHEREAS, **Codexis, Inc.**, a corporation of the State of Delaware (referred to as "Assignee"), having a place of business at **200 Penobscot Drive, Redwood City, CA 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 Inventors (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") that claim priority to said application, 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 Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said inventions disclosed therein; (b) in and to all rights to claim priority benefit to said application, in the United States and abroad, pursuant to Title 35 U.S.C., the International Convention for the Protection of Industrial Property, or otherwise; (c) in and to all rights to apply for U.S. and foreign patents on said invention; (d) 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 non-provisional, divisional; substitution, continuation, or continuation-in-part of any of said applications; (e) in and to each and every reissue or reexamination of any of said patents; or (f) in and to extensions of any of said patents.

2. Said Inventors hereby covenant and agree 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 Inventors 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 Inventors 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 Inventors, his/her respective heirs, legal representatives and assigns.

4. Said Inventors 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 Inventors has executed and delivered this instrument to said Assignee.

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Fernando VALLE**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Svetlana BALATSKAYA**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Yoram BARAK**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Louis CLARK**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date 01/16/2013

By:   
**Kristian KARLSHOEJ**

WITNESSES:

Signature: M. V. C.

Printed Name: Michael V. Enzien

Signature: Susan L. Freed

Printed Name: Susan L. Freed

Date \_\_\_\_\_

By: \_\_\_\_\_  
**Patricia CHOUDHARY**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_



Date \_\_\_\_\_

By: \_\_\_\_\_

**Catherine M. CHO**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_

**Kaman CHAN**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_

**Jonathan VROOM**

WITNESSES:

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_