

ASSIGNMENT

WHEREAS, we, the undersigned,

Jack LIANG, resident of **South San Francisco, California**;

Nandhitha SUBRAMANIAN, resident of **San Francisco, California**;

Charlene CHING, resident of **San Jose, California**;

David William HOMAN, resident of **San Ramon, California**;

(referred to hereinafter as "Inventors") have invented certain new and useful inventions in **"KETOREDUCTASE POLYPEPTIDES AND POLYNUCLEOTIDES"** and have filed a PCT patent application therefor, having International Application No. **PCT/US2020/052396**, and filing date of **September 24, 2020** 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 Oct 15, 2020

By: _____

Jack LIANG

WITNESSES:

Signature: _____

Printed Name: _____

Signature: _____

Printed Name: _____

Date _____

By: _____
Nandhitha SUBRAMANIAN

WITNESSES:

Signature: _____

Printed Name: _____

Signature: _____

Printed Name: _____

Date ^{CC} ~~09~~ 09/28/2020

By: 
Charlene CHING

WITNESSES:

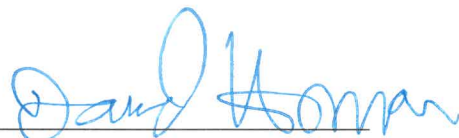
Signature: 

Printed Name: Careyna Fujimoto

Signature: 

Printed Name: Ramon MacKenzie

Date 10/15/2020

By: 
David William HOMAN

WITNESSES:

Signature: 

Printed Name: Careyna Fujimoto

Signature: 

Printed Name: Ramon MacKenzie

Date 10/08/2020

By: N. S. Th
Nandhitha SUBRAMANIAN

WITNESSES:

Signature: [Signature]

Printed Name: JAMES HERON

Signature: [Signature]

Printed Name: Daphne Truan

Date _____

By: _____
Charlene CHING

WITNESSES:

Signature: _____

Printed Name: _____

Signature: _____

Printed Name: _____

Date _____

By: _____
David William HOMAN

WITNESSES:

Signature: _____

Printed Name: _____

Signature: _____

Printed Name: _____

Assignment of Rights, Title and Interest in Invention

This is an Assignment of the following rights, title and interest:

* * * * *

Title of Invention:

KETOREDUCTASE POLYPEPTIDES AND POLYNUCLEOTIDES

Application Particulars:

PCT/US2020/052396 filed 24 September 2020

* * * * *

Inventor(s) / Assignor(s):

<i>NAME</i>	<i>NATIONALITY</i>	<i>ADDRESS</i>
Katie WHALEN	UNITED STATES	1052 Bristlecone Lane Charlottesville, VA 22911 UNITED STATES
Matthew Blake JONES	UNITED STATES	3696 Bellflower Dr. Portage, MI 49024 UNITED STATES

* * * * *

Assignee(s):

<i>NAME</i>	<i>ADDRESS</i>
KALAMAZOO HOLDINGS, INC.	3713 West Main Street KALAMAZOO, Michigan 49006 UNITED STATES

* * * * *

Recitals:

Whereas, I (we), the above-identified Inventor(s), have invented certain new and useful improvements in the Invention identified above and described in any above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas I (we) represent and warrant that I (we) have the full and unencumbered right to sell, assign, and transfer my (our) interest in the Invention, and that I (we) have not executed and will not execute any document or instrument in conflict herewith;

And, whereas I (we) desire to assign my (our) above-identified rights, title and interest in the Invention to the above-identified Assignee(s);

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof and adequacy of which is hereby acknowledged;

I (we) hereby assign, sell and transfer my (our) above-identified rights, title and interest in said Invention, in any patent application(s) as may be identified above or arising out of said Invention, including any divisions, continuations, continuations-in-part, reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, extensions, and other benefits accruing or to accrue to me (us) with respect to the filing of applications for patents or securing of patents in any and all venues without restriction, and to any and all Letters Patent(s) and global equivalent(s) thereof, which may be granted or have granted for said Invention, and other benefits accruing or to accrue to me (us) with respect to said invention, unto said Assignee;

And I (we) hereby authorize and request any National or International patent authority to issue any Letters Patent which may issue for said Invention to said Assignee(s), as assignee(s) of the whole right, title and interest thereto;

In accordance with United States rule 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with United States rule 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

And I (we) further agree to sign and execute all necessary and lawful future documents, including applications for global equivalents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my (our) aforesaid Invention, and/or for obtaining and enforcing proper title in and protection for said Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense;

Statement under 35 USC § 115:

The above-identified application was made or authorized to be made by me.

I (we) believe I (we) am (are) the original inventor or an original joint inventor of a claimed invention in the application.

I (we) hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

* * * * *

* * * * *

Inventor(s) Signature(s) / Witness(es):

Executed this _____ of _____ in the year _____
day month year

3/23/2022 | 3:59:38 PM EDT

DocuSigned by:

K Whalen

705EA5459A18472

Signature of Inventor

Before me personally appeared **Katie WHALEN**

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this _____ of _____ in the year _____

day

month

year

3/23/2022 | 4:31:05 PM EDT

DocuSigned by:

Carrie Muessig

BDBA8C1CA7E541A...

Signature of Witness

Executed this _____ of _____ in the year _____
day month year

3/23/2022 | 10:55:37 AM PDT

DocuSigned by:

/Matt Jones

8B12536EB803414...

Signature of Inventor

Before me personally appeared **Matthew Blake JONES**

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this _____ of _____ in the year _____

day

month

year

3/23/2022 | 4:31:05 PM EDT

DocuSigned by:

Carrie Muessig

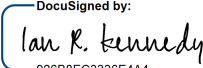
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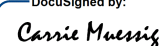
Signature of Witness

* * * * *

Assignee(s) Signature(s) / Witness(es):

On behalf of KALAMAZOO HOLDINGS, INC.:

Executed this _____ of _____ in the year _____
day month year
3/23/2022 | 11:23:47 AM PDT

926B8EC3336E4A4...
Signature of Assignee

Before me personally appeared **Ian R. KENNEDY, Senior Vice President & General Counsel**
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is
authorized to execute the same this _____ of _____ in the year _____
day month year
3/23/2022 | 4:31:05 PM EDT

BDBA8C1CA7E541A...
Signature of Witness

Assignment of Rights, Title and Interest in Invention

This is an Assignment of the following rights, title and interest:

* * * * *

Title of Invention:

KETOREDUCTASE POLYPEPTIDES AND POLYNUCLEOTIDES

Application No.: PCT/US2020/052396

* * * * *

Assignor(s):

NAME	ADDRESS
KALAMAZOO HOLDINGS, INC.	3713 West Main Street KALAMAZOO, Michigan 49006 UNITED STATES

* * * * *

Assignee(s):

NAME	ADDRESS
CODEXIS, INC.	200 Penobscot Drive Redwood City, California 94063 UNITED STATES

* * * * *

Whereas we, KALAMAZOO HOLDINGS, INC., the above-identified assignors, are assigned certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we represent and warrant that we have the full and unencumbered right to sell, assign, and transfer our interest in the Invention, and that we have not executed and will not execute any document or instrument in conflict herewith;

And, whereas we desire to assign the above-identified rights, title and interest in the Invention to the above-identified Assignee(s);

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof and adequacy of which is hereby acknowledged;

We hereby assign, sell and transfer the above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof,

and in and to any and all Letters Patent of the United States which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and other benefits accruing or to accrue with respect to the filing of applications for patents or securing of patents in the United States, unto said Assignee;

And I (we) hereby authorize and request any National or International patent authority to issue any Letters Patent which may issue for said Invention to said Assignee(s), as assignee(s) of the whole right, title and interest thereto;

In accordance with United States rule 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with United States rule 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

And I (we) further agree to sign and execute all necessary and lawful future documents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my (our) aforesaid Invention, and/or for obtaining and enforcing proper title in and protection for said Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense;

* * * * *

Assignor(s) Signature(s) / Witness(es):

On behalf of KALAMAZOO HOLDINGS, INC.:

Executed this _____ of _____ in the year _____ day month year 4/4/2022 11:09:50 AM PDT	DocuSigned by: <i>Ian R. Kennedy</i> 926B8EC3336E4A4 Signature of Assignor
Before me personally appeared Ian R. KENNEDY, Senior Vice President & General Counsel who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same _____ of _____ in the year _____ day month year	
4/10/2022 5:45:12 PM EDT	DocuSigned by: <i>Carrie Muenig</i> BDBA8C1CA7E541A Signature of Witness

Assignee(s) Signature(s) / Witness(es):

On behalf of CODEXIS, INC.:

Executed this _____ of _____ in the year _____
day month year

4/4/2022 | 10:27:17 PM CEST

DocuSigned by:

Kamrin J. MacKnight

9363167EEADB4AB...

Signature of Assignee

Before me personally appeared **Kamrin T. MacKnight, AVP, Intellectual Property & Chief Patent Counsel**
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is
authorized to execute the same of _____ in the year _____
this _____ day _____ month _____ year

4/5/2022 | 6:44:01 AM PDT

DocuSigned by:

Gordon Dug

3A66E06C05084BB...

Signature of Witness