

ASSIGNMENT

This Patent Assignment ("Assignment") is made and entered into as of by and between **Leonela AMOASII and Eric OLSON** (the "Assignor(s)") and **The Board of Regents of the University of Texas System**, a university organized and existing under the laws of Texas, having a place of business at 201 West 7th Street, Austin, Texas 78701 (the "Assignee").

WHEREAS, Assignor(s) has agreed to assign and transfer to Assignee, and Assignee has agreed to acquire and accept from Assignor(s), Assignor(s)'s rights in the following patent application (the "Assigned Patents"):

U.S. Provisional Application No. 62/442,606, filed January 5, 2017, entitled "OPTIMIZED STRATEGY FOR EXON SKIPPING MODIFICATIONS USING CRISPR/CAS9 WITH TRIPLE GUIDE SEQUENCES"

NOW, THEREFORE, in consideration of the premises, mutual covenants and provisions herein contained, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, the parties hereto agree to execute this Assignment, as follows:

1.0 Assignment. The Assignor(s) has assigned and/or by these presents does hereby assign, transfer and convey unto Assignee, the Assignor(s)'s whole and entire right, title and interest for the United States and all other countries throughout the world (i) in and to the inventions claimed or disclosed in the Assigned Patents, including all patents granting from the Assigned Patents or any continuation, continuation-in-part, division, renewal, substitute, reexamination or reissue thereof, including any patents in the United States and in all other countries throughout the world obtained based upon a claim of priority to any said Assigned Patents as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law, as well as the right to claim priority to any said Assigned Patents as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law, and (ii) in and to all rights to sue for and collect damages resulting from past, present and future infringement of said patents and patent applications in (i).

2.0 Enjoyment. The patents and patent applications subject to Paragraph 1 shall be held and enjoyed by Assignee, for Assignee's use and benefit, and for Assignee's legal representatives and assigns, to the full end of the term or terms for which same may be granted, as fully and entirely as the same would have been held by Assignee had this assignment and transfer not been made.

3.0 Authorize and Request. Assignor(s) authorizes and requests the issuing authority to issue any and all United States and foreign patents granted on such patents and patent applications in 1.0(i) to the Assignee.

4.0 Warrant and Covenant. Assignor(s) warrants and covenants that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the Assignor(s), and that the full right to convey the same as herein expressed is possessed by the Assignor(s).

5.0 Assistance. The parties to this Assignment shall use commercially reasonable efforts to take, or cause to be taken, all actions, and to do, or cause to be done, all things, necessary or advisable to consummate the transactions contemplated by this Assignment. Without limiting the foregoing, each of Assignor(s) and Assignee shall cooperate with the other without any further consideration to execute and deliver, or use commercially reasonable efforts to cause to be executed and delivered, all documents as may reasonably be necessary to secure the vesting in Assignee of all rights assigned to Assignee by this Assignment, including without limitation any documents required to record this Assignment with local patent offices, and all rightful oaths, declarations, and other papers.

6.0 Binding. The Assignment is binding on the heirs, assigns, representatives and successors of the Assignor(s) and extends to the successors, assigns and nominees of the Assignee.

7.0 Effectiveness. The assignment of said inventions is or was effective as of the earlier of (1) the date of execution of the Assignor(s) indicated below or (2) the filing date of the first filed of the patent applications of the Assigned Patents.

(Signature page follows)

IN WITNESS WHEREOF, each of the parties hereto has executed this Patent Assignment, or has caused this Patent Assignment to be executed on its behalf by a representative duly authorized.

Leonela AMOASII

Signature: _____

Date: _____

STATE OF Texas
COUNTY OF Dallas

3/30/17

BEFORE ME, the undersigned authority, on this 30 day of March, 2017 personally appeared **Leonela AMOASII**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.



Notary or Consular Officer

IN WITNESS WHEREOF, each of the parties hereto has executed this Patent Assignment, or has caused this Patent Assignment to be executed on its behalf by a representative duly authorized.

Eric OLSON

Signature: _____

Date: _____

[Handwritten Signature]
3/30/17

STATE OF Texas
COUNTY OF Dallas

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[Handwritten Signature]

Notary or Consular Officer

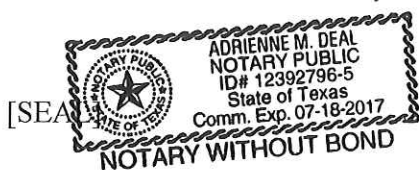
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**The Board of Regents of the University of
Texas System**

By: 
Name: James L. Cox II
Title: Assistant General Counsel
Date: 4-24-17

STATE OF Texas
COUNTY OF Travis

BEFORE ME, the undersigned authority, on this 24 day of April, 2017 personally appeared James L. Cox II, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.




Notary or Consular Officer

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WHEREAS, Assignor(s) has agreed to assign and transfer to Assignee, and Assignee has agreed to acquire and accept from Assignor(s), Assignor(s)'s rights in the following patent application (the "Assigned Patents"):

U.S. Provisional Application No. 62/544,449, filed August 11, 2017, entitled "OPTIMIZED STRATEGY FOR EXON SKIPPING MODIFICATIONS USING CRISPR/CAS9 WITH TRIPLE GUIDE SEQUENCES"

NOW, THEREFORE, in consideration of the premises, mutual covenants and provisions herein contained, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, the parties hereto agree to execute this Assignment, as follows:

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Leonela AMOASII

Signature: _____

Date: _____

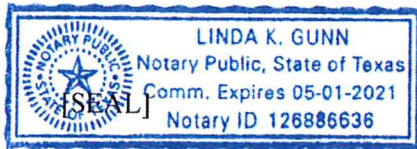
STATE OF

TX

COUNTY OF

DAWAS

BEFORE ME, the undersigned authority, on this 13 day of Nov, 2017 personally appeared **Leonela AMOASII**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.



Notary or Consular Officer

IN WITNESS WHEREOF, each of the parties hereto has executed this Patent Assignment, or has caused this Patent Assignment to be executed on its behalf by a representative duly authorized.

Eric OLSON

Signature: _____

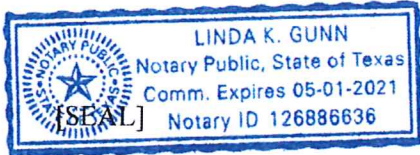
Date: _____

[Handwritten Signature]

11/13/17

STATE OF TX
COUNTY OF DAWAS

BEFORE ME, the undersigned authority, on this 13 day of Nov, 2017 personally appeared **Eric OLSON**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

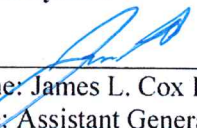


[Handwritten Signature]

Notary or Consular Officer

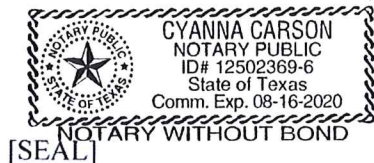
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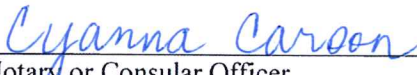
**The Board of Regents of the University of
Texas System**

By: 
Name: James L. Cox II
Title: Assistant General Counsel
Date:

STATE OF Texas
COUNTY OF Travis

BEFORE ME, the undersigned authority, on this 8th day of January, 2017 personally appeared James L. Cox II, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.




Notary or Consular Officer

ASSIGNMENT

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U.S. Patent Provisional Application, Serial No. 62/544,449, filed August 11, 2017, entitled "OPTIMIZED STRATEGY FOR EXON SKIPPING MODIFICATIONS USING CRISPR/CAS9 WITH TRIPLE GUIDE SEQUENCES";

U.S. Patent Provisional Application, Serial No. 62/596,298, filed December 8, 2017, entitled "OPTIMIZED STRATEGY FOR EXON SKIPPING MODIFICATIONS USING CRISPR/CAS9 WITH TRIPLE GUIDE SEQUENCES"; and

International Patent Application, Serial No. PCT/US2018/012558, filed January 5, 2018, entitled "OPTIMIZED STRATEGY FOR EXON SKIPPING MODIFICATIONS USING CRISPR/CAS9 WITH TRIPLE GUIDE SEQUENCES", and claims priority to U.S. Provisional Patent Applications, Serial Nos. 62/442, 606; 62/544,449; and 62/596,298.

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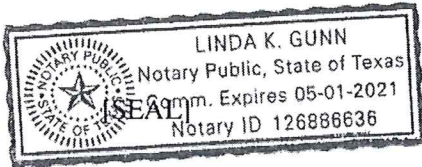
Leonela AMOASII

Signature: _____

Date: _____

STATE OF Texas
COUNTY OF Dallas

BEFORE ME, the undersigned authority, on this 23 day of April, 2018 personally appeared **Leonela AMOASII**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.



Notary or Consular Officer

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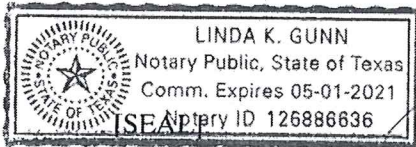
Eric OLSON

Signature: _____

Date: _____

STATE OF Texas
COUNTY OF Dallas

BEFORE ME, the undersigned authority, on this 23 day of April, 2018 personally appeared **Eric OLSON**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.



Notary or Consular Officer

IN WITNESS WHEREOF, each of the parties hereto has executed this Patent Assignment, or has caused this Patent Assignment to be executed on its behalf by a representative duly authorized.

**The Board of Regents of the University of
Texas System**

By: _____
Name: James L. Cox II
Title: Assistant General Counsel
Date: April 26, 2018

STATE OF Texas
COUNTY OF Tarrant

BEFORE ME, the undersigned authority, on this 26th day of April, 2018 personally appeared James L. Cox II, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Billie Martinez
Notary or Consular Officer

[SEAL]

