

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT6591790

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JEFFREY COLBECK	10/25/2017
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16312776
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NAME OF SUBMITTER:	MAI PHAM
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DATE SIGNED:	03/09/2021
Total Attachments: 2	
source=47840-719.831 Colbeck to Intrexon Assignment in PCT Application_Redacted#page1.tif	
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ASSIGNMENT

WHEREAS, I, Jeffrey Colbeck of 919 Chestnut Lane, Davis, CA 95616, have invented certain new and useful invention or inventions (hereinafter "INVENTIONS") relating to the subject matter of:

**COMPOSITIONS AND METHODS FOR MAKING BENZYLISOQUINOLINE ALKALOIDS,
MORPHINAN ALKALOIDS, THEBAINE, AND DERIVATIVES THEREOF**

described in International Patent Application filed in the United States or other foreign country on **June 27, 2017**, and accorded Application No. **PCT/US2017/039589**, (hereinafter "APPLICATION");

AND, WHEREAS, Intrexon Corporation, a corporation organized and existing under and by virtue of the laws of the Commonwealth of Virginia and having an office and place of business at 1750 Kraft Drive, Suite 1400, Blacksburg, Virginia 24060, (hereinafter "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to said INVENTIONS and APPLICATION, and in and to the Letters Patent to be obtained therefor under the APPLICATION;

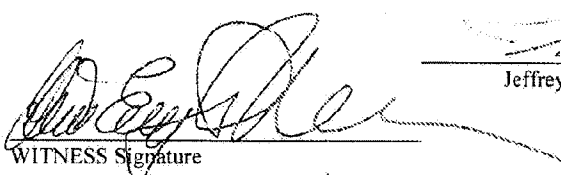
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, my entire right, title and interest, including the right to claim priority and, including the right to sue for past infringement and to collect for all past, present and future damages in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said INVENTIONS, said APPLICATION and any inventions described therein, and any other United States applications, including priority, provisional, non-provisional, divisional, renewal, substitute, continuation, continuations-in-part, reexamination and reissue applications, based in whole or in part on said APPLICATION or in whole or in part on said INVENTIONS, any foreign applications and any inventions described therein, including priority, international, and regional applications, based in whole or in part on any of the aforesaid APPLICATION or applications or in whole or in part on said INVENTIONS, and in and to any and all Letters Patent, including extensions thereof, of any country which have been or may be granted on any of the aforesaid APPLICATION or applications or on any improvements or any parts thereof;

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments, and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to me relating to said INVENTIONS and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure and to vest in said ASSIGNEE, its successors or assigns the entire right, title and interest in and to said INVENTIONS, APPLICATION, applications, and Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND I hereby covenant for myself and my legal representatives, and agree with said ASSIGNEE, its successors and assigns, that I have granted no right or license to make, use, sell or offer to sell said INVENTIONS, to anyone except said ASSIGNEE, that prior to the execution of this deed, my right, title and interest in said INVENTIONS had not been otherwise encumbered, and that I have not and will not execute any instrument in conflict therewith;

AND I do hereby authorize and request the Director of the United States Patent and Trademark Office and/or foreign equivalents to issue any and all Letters Patent which may be granted upon said APPLICATION, or upon said INVENTIONS or any parts thereof when granted, to said ASSIGNEE.

IN TESTIMONY WHEREOF, I have hereunto set my hand on the date indicated below.



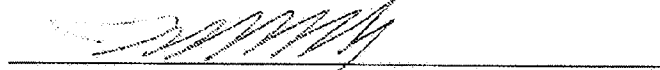
WITNESS Signature

Maria Engquist-Newman

WITNESS Print Name


10.25-2017

DATE



Jeffrey Colbeck

ACCEPTED by Intrexon Corporation



Signature
Name: Darryl Webster

Title: Senior Vice President, Intellectual Property

Date: 11/1/2017