## 506420900 12/23/2020 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6467657

SUBMISSION TYPE:		NEW ASSIGNMEN	IT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	DATA				
		Name		Execution Date	
STEPHEN SCHAUER				03/18/2018	
DARBY THOMAS				12/07/2017	
RECEIVING PARTY D	ΑΤΑ				
Name:	INTREX	INTREXON CORPORATION			
Street Address:	1750 KF	1750 KRAFT DRIVE			
Internal Address:	SUITE 1	SUITE 1400			
City:	BLACK	BLACKSBURG			
State/Country:	VIRGIN	VIRGINIA			
Postal Code:	24060	24060			
Property Type		<b>Number</b>		-	
Application Number:		7125449			
				]	
CORRESPONDENCE	DATA				
Fax Number: (703					
		03)712-8525			
Correspondence will	be sent to	he e-mail address first		successful, it will be sent	
Correspondence will	be sent to f provided	he e-mail address first if that is unsuccessful			
Correspondence will using a fax number, i	be sent to f provided (	he e-mail address first	, it will be ser	nt via US Mail.	
<i>Correspondence will using a fax number, in</i> Phone:	be sent to f provided; (	<b>he e-mail address first if that is unsuccessful</b> 03) 712-8531	<i>, it will be ser</i> docketing@m	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1:	be sent to f provided ( a :	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF	, it will be ser docketing@m HOUSE & MI	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1: Address Line 2:	be sent to f provided ( a :	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF JITE 1060	, <b>it will be ser</b> docketing@m HOUSE & MI NVE	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1:	be sent to f provided ( a :	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF	, <b>it will be ser</b> docketing@m HOUSE & MI NVE	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	be sent to f provided ( a : N 8 8	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF JITE 1060	, <b>it will be ser</b> docketing@m HOUSE & MI NVE	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	be sent to f provided ( : : N E IUMBER:	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF JITE 1060 CLEAN, VIRGINIA 2210	, <i>it will be ser</i> docketing@m HOUSE & MI NVE	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1: Address Line 2:	be sent to f provided ( : : N E IUMBER:	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF JITE 1060 CLEAN, VIRGINIA 2210 0100-0028US2	, <i>it will be ser</i> docketing@m HOUSE & MI NVE D2 NO. 76886	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4:	be sent to f provided ( : : N E IUMBER:	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF JITE 1060 CLEAN, VIRGINIA 2210 0100-0028US2 MINXI RAO, REG.	, <i>it will be ser</i> docketing@m HOUSE & MI NVE D2 NO. 76886	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE:	be sent to f provided ( : : N E IUMBER:	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF JITE 1060 CLEAN, VIRGINIA 2210 0100-0028US2 MINXI RAO, REG. /Minxi Rao, #76886	, <i>it will be ser</i> docketing@m HOUSE & MI NVE D2 NO. 76886	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE: DATE SIGNED:	be sent to f provided ( 2 2 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF JITE 1060 CLEAN, VIRGINIA 2210 0100-0028US2 MINXI RAO, REG. /Minxi Rao, #76886 12/23/2020	, <i>it will be ser</i> docketing@m HOUSE & MI NVE	nt via US Mail. nedlerferro.com	
Correspondence will using a fax number, in Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 4	be sent to f provided ( 2 2 3 3 4 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	he e-mail address first if that is unsuccessful 03) 712-8531 dmin@medlerferro.com, EDLER FERRO WOOD 201 GREENSBORO DF JITE 1060 CLEAN, VIRGINIA 2210 0100-0028US2 MINXI RAO, REG. /Minxi Rao, #76886 12/23/2020 t - Inventors to Intrexon- t - Inventors to Intrexon-	docketing@m HOUSE & MI NVE NO. 76886	nt via US Mail. nedlerferro.com	

PATENT REEL: 054743 FRAME: 0337

## ASSIGNMENT

WHEREAS, WE, <u>Stephen Schauer and Darby Thomas of Blacksburg, VA</u>, have invented certain new and useful invention or inventions (hereinafter "INVENTIONS") relating to the subject matter of:

## FRATAXIN EXPRESSION CONSTRUCTS

described in International Patent Application No. PCT/US2017/060680, filed on November 8, 2017, and U.S. Patent Application No. 15/807,350, filed on November 8, 2017 (hereinafter "APPLICATIONS") and claiming priority to Provisional Patent Application No. 62/419,621, filed on November 9, 2016, in the United States of America;

AND, WHEREAS, <u>Intrexon Corporation</u>, 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 <u>1750 Kraft Drive</u>, <u>Suite 1400</u>, <u>Blacksburg</u>, <u>Virginia 24060</u>, (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, we do hereby assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our 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, we do hereby agree that we and our 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 us 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 we hereby covenant for ourselves and our legal representatives, and agree with said ASSIGNEE, its successors and assigns, that we 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, our right, title and interest in said INVENTIONS had not been otherwise encumbered, and that we have not and will not execute any instrument in conflict therewith;

AND we 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, we have hereunto set my hand on the date indicated below.

PATENT REEL: 054743 FRAME: 0338

	DOCKET NO: INX00317 INTERNATIONAL PATENT APPLICATION: PCT/US/2017/060680 AND U.S PATENT APPLICATION: 15/807,350 CLAIMING PRIORITY TO U.S. PROVISIONAL APPLICATION NO:62/419,621
	Stephen Schauer
Millioun	
WITNESS Signature	
MONICA SCHAUER WITNESS Print Name	
03/B/2018	
DATE	
	Darby Thomas
MUTATION OF	
WITNESS Signature	
WITNESS Print Name	
DATE	
	PATENT

DOCKET NO: INX00317 INTERNATIONAL PATENT APPLICATION: PCT/US/2017/060680 AND U.S PATENT APPLICATION: 15/807,350 CLAIMING PRIORITY TO U.S. PROVISIONAL APPLICATION NO:62/419,621

 Stephen Schauer

 WITNESS Signature

 WITNESS Print Name

 DATE

 Marching Stephens

 WITNESS Signature

 Nadio Stephens

 WITNESS Print Name

 12 / 07 / 2017

 DATE

## DOCKET NO: INX00317 INTERNATIONAL PATENT APPLICATION: PCT/US/2017/060680 AND U.S PATENT APPLICATION: 15/807,350 CLAIMING PRIORITY TO U.S. PROVISIONAL APPLICATION NO:62/419,621

ACCEPTED by Intrexon Corporation

Signature

Name: Darryl Webster

Title: Senior Vice President, Intellectual Property

18 Date: