

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6528168

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FARREN ISAACS	08/19/2020
NATALIE MA	08/14/2020
JESSE RINEHART	08/19/2020
COLIN HEMEZ	08/14/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	YALE UNIVERSITY
<b>Street Address:</b>	TWO WHITNEY AVENUE
<b>City:</b>	NEW HAVEN
<b>State/Country:</b>	CONNECTICUT
<b>Postal Code:</b>	06510
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17107555
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	heather@pabstpatent.com, yvonne@pabstpatent.com, docketing@pabstpatent.com
<b>Correspondent Name:</b>	PABST PATENT GROUP LLP
<b>Address Line 1:</b>	1545 PEACHTREE STREET, SUITE 320
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30309
<b>ATTORNEY DOCKET NUMBER:</b>	YU 7574 CON
<b>NAME OF SUBMITTER:</b>	HEATHER BIFFLE
<b>SIGNATURE:</b>	/Heather Biffle/
<b>DATE SIGNED:</b>	02/02/2021
<b>Total Attachments: 4</b>	
source=YU 7574 Executed Provisional Assignment#page1.tif	
source=YU 7574 Executed Provisional Assignment#page2.tif	
source=YU 7574 Executed Provisional Assignment#page3.tif	



## ASSIGNMENT

We, **Farren Isaacs** of Molecular, Cellular & Developmental Biology, Yale University, KBT Room 802, 219 Prospect Street, New Haven, Connecticut 06520, **Natalie Ma** of c/o Yale University Office of Cooperative Research, 433 Temple Street, New Haven, Connecticut 06511, **Jesse Rinehart** of Yale School of Medicine, Cellular & Molecular Physiology, Systems Biology Institute, PO Box 27388, West Haven, Connecticut, 06516-7388, and **Colin Hemez** of Molecular, Cellular & Developmental Biology, Yale University, KBT Room 802, 219 Prospect Street, New Haven, Connecticut 06520, in consideration of ten dollars and other valuable consideration paid to us by **Yale University**, a university of the state of Connecticut, having its principal place of business at Two Whitney Avenue, New Haven, Connecticut 06510 (hereinafter "said Assignee"), the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Assignee, its successors and assigns, the entire interest for the United States of America, and its possessions and territories, and all foreign countries and jurisdictions, in, to, and for (1) a certain invention(s) and/or improvement(s) in "*ENGINEERING ORGANISMS RESISTANT TO VIRUSES AND HORIZONTALLY TRANSFERRED GENETIC ELEMENTS*" described in U.S. Provisional Application No. 62/927,642 filed in the United States Patent and Trademark Office on October 29, 2019, (2) U.S. Provisional Application No. 62/927,642 filed October 29, 2019, (3) all Letters Patent of the United States and its possessions and territories and of all foreign countries and jurisdictions which may or shall be granted on said invention(s), on said improvement(s), or on said application(s), (4) all provisional, divisional, continuation, reissue, PCT, national phase, or other applications based thereon, and (5) all rights of priority, including the right to claim priority to said application(s), under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and any other treaty relating thereto.

We agree, for ourselves and our executors and administrators, with said Assignee and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its possessions and territories and in all other foreign countries and jurisdictions to said Assignee, with

Title: ***"ENGINEERING ORGANISMS RESISTANT TO VIRUSES AND HORIZONTALLY TRANSFERRED GENETIC ELEMENTS"***  
By: Farren Isaacs, Natalie Ma, Jesse Rinehart, and Colin Hemez  
Filed: October 29, 2019  
ASSIGNMENT

specifications and claims in such form as shall be approved by the counsel of said Assignee, and to vest and confirm in said Assignee, its successors and assigns, the legal title to all such patents.

We do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application(s) based thereon to said Assignee, its successors and assigns.

We each individually do hereby state (1) that the application(s) was made or was authorized to be made by each of us and (2) that we each believe ourselves to be the original inventor or joint inventor of a claimed invention in the application(s).

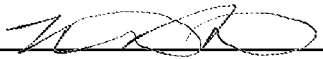
We each individually do hereby authorize said Assignee's attorney to correct any typographical errors on this form, if necessary, and to complete this form by the addition of the application number(s), application filing date(s), and attorney docket number(s), if necessary.

Title: **"ENGINEERING ORGANISMS RESISTANT TO VIRUSES AND HORIZONTALLY TRANSFERRED GENETIC ELEMENTS"**  
By: Farren Isaacs, Natalie Ma, Jesse Rinehart, and Colin Hemez  
Filed: October 29, 2019  
ASSIGNMENT

Date: 8/19/2020 | 5:17 PM EDT

/ Prof. Farren Isaacs /  
FARREN ISAACS

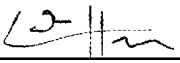
Date: 8/14/2020 | 6:02 PM EDT

/  /  
NATALIE MA

Date: 8/19/2020 | 5:51 PM EDT

/ Jesse Rinehart /  
JESSE RINEHART

Date: 8/14/2020 | 6:49 PM EDT

/  /  
COLIN HEMEZ

Title: "ENGINEERING ORGANISMS RESISTANT TO VIRUSES AND HORIZONTALLY TRANSFERRED GENETIC ELEMENTS"

By: Farren Isaacs, Natalie Ma, Jesse Rinehart, and Colin Hemez

Filed: October 29, 2019

ASSIGNMENT

### ACCEPTANCE OF ASSIGNMENT

**Yale University** does hereby declare that it has accepted from FARREN ISAACS, NATALIE MA, JESSE RINEHART, and COLIN HEMEZ the Assignment of the entire interest in certain inventions or improvements described in U.S. Application No. 62/927,642, filed October 29, 2019, including all rights of priority, including the right to claim priority to said application(s), under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and any other treaty relating thereto.

### YALE UNIVERSITY

Date: 8/19/2020 | 9:19 PM EDT

By: / Jon Soderstrom /

Name: Jon Soderstrom

Title: Managing Director  
Yale Office of Cooperative Research