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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SYDNEY BRENNER	02/01/2012
GI MIKAWA	02/01/2012
ROBERT OSBORNE	02/01/2012
ANDREW SLATTER	02/01/2012

RECEIVING PARTY DATA

Name:	POPULATION GENETICS TECHNOLOGIES LTD.
Street Address:	BABRAHAM RESEARCH CAMPUS
City:	CAMBRIDGE
State/Country:	UNITED KINGDOM
Postal Code:	CB22 3AT

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15677957

CORRESPONDENCE DATA

Fax Number: (415)442-1001

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Email: sheila.gloss@morganlewis.com

MORGAN, LEWIS & BOCKIUS LLP (SF) **Correspondent Name:**

ONE MARKET, SPEAR STREET TOWER, SUITE 2800 Address Line 1:

Address Line 4: SAN FRANCISCO, CALIFORNIA 94105

ATTORNEY DOCKET NUMBER:	104371-5016-US08
NAME OF SUBMITTER:	SHEILA R. GLOSS
SIGNATURE:	/Sheila R. Gloss/
DATE SIGNED:	01/11/2018

Total Attachments: 3

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> **PATENT** REEL: 044602 FRAME: 0905 504726075

ASSIGNMENT OF APPLICATION (JOINT)

Atty Docket No. CGLC-020

THIS ASSIGNMENT, by Sydney Brenner, Gi Mikawa, Robert Osborne and Andrew Slatter (hereinafter referred to as the assignors), residing in Ely, United Kingdom, Cambridge, United Kingdom, Great Chesterford, Saffron, Walden and London, United Kingdom, respectively, witnesseth:

WHEREAS, the said assignors have invented certain new and useful improvements in:

"Compositions and Methods for Intramolecular Nucleic Acid Rearrangement"

X filed on August 13, 2010 as PCT International Application No. IB2010/002243 designating the United States.

for which an application for a United States Patent was executed on _____, and

WHEREAS, Population Genetics Technologies Ltd. a corporation duly organized under and pursuant to the laws of United Kingdom, and having its principal place of business at Babraham Research Campus, Cambridge United Kingdom CB22 3AT (hereinafter referred to as the assignee) is desirous of acquiring their right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the assignee, its successors, legal representatives and assigns, all of their right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said invention and the Letters Patent to be issued thereon for the use and behalf of said assignee, its successors, legal representatives and assigns.

Date 1 Feb 2012	Name of Inventor _	Sydney Brenne
Date	Name of Inventor	Sydney Brenner
Date	Name of Inventor	Gi Mikawa
Date	Name of Inventor	Robert Osborne
		Andrew Slatter

ASSIGNMENT OF APPLICATION (JOINT)

Atty Docket No. CGLC-020

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 for which an application for a United States Patent was executed on _____, and

WHEREAS, Population Genetics Technologies Ltd. a corporation duly organized under and pursuant to the laws of United Kingdom, and having its principal place of business at Babraham Research Campus, Cambridge United Kingdom CB22 3AT (hereinafter referred to as the assignee) is desirous of acquiring their right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the assignee, its successors, legal representatives and assigns, all of their right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said invention and the Letters Patent to be issued thereon for the use and behalf of said assignee, its successors, legal representatives and assigns.

Date	Name of Inventor	
1-Feb-2019		Sydney Brenner
Date 1-Feb-2012	Name of Inventor	Gi Mikawa
Date 1/2/12	Name of Inventor	Kobel Oliva
Date 1/2 12	Name of Inventor	Robert Osborne
	•	Andrew Slatter

PATENT REEL: 044602 FRAME: 0907

ASSIGNMENT OF APPLICATION (JOINT)
Atty Docket No. CGLC-020
Hereby accepted on behalf of the assignee
Aud U Urruell Signature
FER 1, 2012 MET N. KRONIEUL Name (print)
DIRECTOR, POPULATION GOVETICS TECHNOLOGIES, LTD,

PATENT REEL: 044602 FRAME: 0908

RECORDED: 01/11/2018