

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5139491

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	TERMINATION AND RELEASE OF NOTICE OF ATTORNEY'S LIEN	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
BROWN RUDNICK LLP		09/07/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	SEVEN BRIDGES GENOMICS INC.	
<b>Street Address:</b>	1 MAIN STREET, #500	
<b>City:</b>	CAMBRIDGE	
<b>State/Country:</b>	MASSACHUSETTS	
<b>Postal Code:</b>	02142	
<b>PROPERTY NUMBERS Total: 34</b>		
<b>Property Type</b>	<b>Number</b>	
Application Number:	14016833	
Application Number:	14041850	
Application Number:	14811057	
Application Number:	15196345	
Application Number:	14474475	
Application Number:	14517406	
Application Number:	14517419	
Application Number:	14517513	
Application Number:	14517451	
Application Number:	14157759	
Application Number:	14157979	
Application Number:	14744536	
Application Number:	14798686	
Application Number:	14592444	
Application Number:	14877378	
Application Number:	15381492	
Application Number:	14847608	
Application Number:	14177958	
Application Number:	15061235	
Application Number:	15003374	

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Property Type	Number
Application Number:	15007865
Application Number:	15007874
Application Number:	15014483
Application Number:	15014500
Application Number:	14885192
Application Number:	14994385
Application Number:	14990323
Application Number:	14994758
Application Number:	15052354
Application Number:	15006391
Application Number:	15254258
Application Number:	62453806
Application Number:	15454811
Application Number:	15353105

#### CORRESPONDENCE DATA

**Fax Number:** (617)856-8201

*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.*

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**Correspondent Name:** BROWN RUDNICK LLP

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**ATTORNEY DOCKET NUMBER:** 31079/1

**NAME OF SUBMITTER:** MARK S. LEONARDO

**SIGNATURE:** /MARK S. LEONARDO/

**DATE SIGNED:** 09/13/2018

#### Total Attachments: 4

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**TERMINATION AND RELEASE OF  
NOTICE OF ATTORNEY'S LIEN**

This Termination and Release of Notice of Attorney's Lien (this "Termination"), dated as of September 7, 2018, is executed by **BROWN RUDNICK LLP** ("Brown Rudnick"), in favor of **SEVEN BRIDGES GENOMICS INC.** ("Company"). All capitalized terms used in this Termination and not otherwise defined herein, shall have the respective meanings given to such terms in the Attorney's Lien (defined below).

**RECITALS**

A. Pursuant to that certain Notice of Attorney's Lien, dated as of October 11, 2017 (the "Attorney's Lien"), Brown Rudnick provided notice that it asserted, for attorneys' fees and expenses due it from Company, an attorney's lien pursuant to Mass. Gen. Laws ch. 221, § 50, in the IP Collateral (defined below).

B. The Attorney's Lien was recorded with the Patent Division of the United States Patent and Trademark Office on October 11, 2017, at Reel/Frame 044174/0113, to evidence the attorney's lien.

C. Brown Rudnick agrees to execute this Termination in order to evidence the termination and release of its attorney's lien in the IP Collateral specified below.

**AGREEMENT**

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Brown Rudnick hereby agrees as follows:

(a) Brown Rudnick expressly terminates and releases all of Brown Rudnick's right, title and interest in, to and under the following (collectively, the "IP Collateral"):

(i) those certain issued and pending U.S. Patents and Applications as scheduled on Exhibit A, attached hereto, and all other pending U.S. Patent Applications and/or issued U.S. Patents depending therefrom.

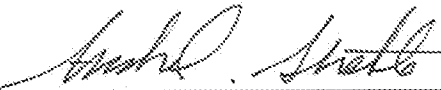
(b) Brown Rudnick represents and warrants that it has the full power and authority to execute this Termination.

(c) Brown Rudnick authorizes and requests the patent division of the United States Patent and Trademark Office to record this Termination.

*[Signature Page Follows]*

IN WITNESS WHEREOF, Brown Rudnick has executed and delivered this Termination as of the day and year first above written.

**BROWN RUDNICK LLP**

By:   
Name: Andrew P. Struble  
Title: Administrative Partner

*[Termination and Release of Notice of Attorney's Lien]*

**PATENT**  
**REEL: 046943 FRAME: 0686**

**EXHIBIT A**

Patent Application Number	Patent Number	Title
14/016833		METHODS AND SYSTEMS FOR ALIGNING SEQUENCES
14/041850	9116866	METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS
14/811057	9390226	METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS
15/196345		METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS
14/474475		GENOMIC PIPELINE EDITOR WITH TOOL LOCALIZATION
14/517406		METHODS AND SYSTEMS FOR GENOTYPING GENETIC SAMPLES
14/517419		METHODS AND SYSTEMS FOR QUANTIFYING SEQUENCE ALIGNMENT
14/517513		METHODS AND SYSTEMS FOR ALIGNING SEQUENCES IN THE PRESENCE OF REPEATING ELEMENTS
14/517451		METHODS AND SYSTEMS FOR IDENTIFYING DISEASE-INDUCED MUTATIONS
14/157759	9063914	SYSTEMS AND METHODS FOR TRANSCRIPTOME ANALYSIS
14/157979	9092402	SYSTEMS AND METHODS FOR USING PAIRED-END DATA IN DIRECTED ACYCLIC STRUCTURE
14/744536		SYSTEMS AND METHODS FOR TRANSCRIPTOME ANALYSIS
14/798686		SYSTEMS AND METHODS FOR USING PAIRED-END DATA IN DIRECTED ACYCLIC STRUCTURE
14/592444		SYSTEMS AND METHODS FOR USE OF KNOWN ALLELES IN READ MAPPING
14/877378	9558321	SYSTEMS AND METHODS FOR SMART TOOLS IN SEQUENCE PIPELINES
15/381492		SYSTEMS AND METHODS FOR SMART TOOLS IN SEQUENCE PIPELINES
14/847608		VARIANT-CALLING ON DATA FROM APLICON-BASED SEQUENCING METHODS
14/177958		SYSTEMS AND METHODS FOR ANALYZING SEQUENCE DATA
15/061235		SYSTEMS AND METHODS FOR GENOMIC PATTERN ANALYSIS
15/003374		SYSTEMS AND METHODS FOR HAPLOTYPING
15/007865		SYSTEMS AND METHODS FOR IDENTIFYING MICROORGANISMS
15/007874		SYSTEMS AND METHODS FOR EPIGENETIC ANALYSIS
15/014483		SYSTEMS AND METHODS FOR MITOCHONDRIAL ANALYSIS
15/014500		SYSTEMS AND METHODS FOR ANALYZING VIRAL NUCLEIC ACIDS
14/885192		BIOLOGICAL GRAPH OR SEQUENCE SERIALIZATION
14/994385		SYSTEMS AND METHODS FOR ANALYZING CIRCULATING TUMOR DNA
14/990323		SYSTEMS AND METHODS FOR ADAPTIVE LOCAL ALIGNMENT FOR GRAPH GENOMES
14/994758		GENETIC ANALYSIS SYSTEMS AND METHODS
15/052354		SYSTEMS AND METHODS FOR GENOTYPING WITH GRAPH REFERENCE

*[Termination and Release of Notice of Attorney's Lien]*

Patent Application Number	Patent Number	Title
15/006391		SYSTEMS AND METHODS FOR ENCODING GENETIC VARIATION FOR A POPULATION
15/254258		SYSTEMS AND METHODS FOR DETECTING RECOMBINATION
62/453806		SYSTEMS AND METHODS FOR PROVIDING ASSISTED LOCAL ALIGNMENT
15/454811		SYSTEMS AND METHODS FOR PROCESSING COMPUTATIONAL WORKFLOWS
15/353105		SYSTEMS AND METHODS FOR ALIGNING SEQUENCES TO GRAPH REFERENCES

*[Termination and Release of Notice of Attorney's Lien]*