

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3211280

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NIGEL DELANEY	01/12/2015
ARI SILVER	01/05/2015
LEE SILVER	01/05/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GENEPEEKS, INC.
<b>Street Address:</b>	175 VARICK STREET
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10013
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14568456
<b>Application Number:</b>	62013139
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(646)878-0801
<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>Phone:</b>	646-878-0800
<b>Email:</b>	USPTO@pearlcohen.com
<b>Correspondent Name:</b>	PEARL COHEN ZEDEK LATZER BARATZ LLP
<b>Address Line 1:</b>	1500 BROADWAY
<b>Address Line 2:</b>	12TH FLOOR
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10036
<b>ATTORNEY DOCKET NUMBER:</b>	P-78275-US
<b>NAME OF SUBMITTER:</b>	SOFIA KOPELEVICH
<b>SIGNATURE:</b>	/SK/
<b>DATE SIGNED:</b>	02/04/2015
<b>Total Attachments: 6</b>	
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**PATENT**

**REEL: 034884 FRAME: 0120**

**ASSIGNMENT**

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the Receipt of which is hereby acknowledged, I the undersigned, NIGEL DELANEY residing at 1281 44th Ave, San Francisco, CA 94122; ARI SILVER residing at 33 Greenwich Avenue #14F, New York, NY, 10014; and Lee SILVER residing at 33 Greenwich Avenue, New York, NY 10014,

Hereby sell, assign and transfer to GenePeeks, Inc., a United States company located at 175 Varick Street, New York, NY 10013 its successors, assigns and legal representatives (hereinafter, the "Assignee"), the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and as possessed by the undersigned, any and all inventions which are disclosed but not claimed in the application for United States Patent U.S. Serial No. 14/568,456 filed December 12, 2014 and is entitled:

**EVOLUTIONARY MODELS OF MULTIPLE SEQUENCE ALIGNMENTS TO PREDICT  
OFFSPRING FITNESS PRIOR TO CONCEPTION**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application, including but not limited to prior US Provisional Application No. 62/013,139 filed June 17, 2014; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions; and including the Assignor's right in and to all revenue, income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment. I hereby authorize and request the attorney of record of the firm Pearl Cohen Zedek Latzer Baratz LLP, 1500 Broadway, 12<sup>th</sup> Floor, New York, New York 10036, to insert in the parentheses above, the filing date and US Serial No. of said application when known;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the under-signed or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

**COVENANT** with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

FULL NAME OF INVENTOR: <b>NIGEL DELANEY</b>	FULL NAME OF WITNESS: <i>Brett Bowman</i>
SIGNATURE OF INVENTOR: <i>[Signature]</i>	SIGNATURE OF WITNESS: <i>[Signature]</i>
DATE: <u>1/12/2015</u> (day / month / year)	ADDRESS OF WITNESS: <i>635 Tennessee St.</i>

*San Francisco, CA 94107*

Docket No.: P-78275-US

FULL NAME OF INVENTOR: <b>Ari SILVER</b>	FULL NAME OF WITNESS:
SIGNATURE OF INVENTOR:	SIGNATURE OF WITNESS:
DATE: _____ (day / month / year)	ADDRESS OF WITNESS:

FULL NAME OF INVENTOR: <b>Lee SILVER</b>	FULL NAME OF WITNESS:
SIGNATURE OF INVENTOR:	SIGNATURE OF WITNESS:
DATE: _____ (day / month / year)	ADDRESS OF WITNESS:

**ASSIGNMENT**

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Hereby sell, assign and transfer to GenePeeks, Inc., a United States company located at 175 Varick Street, New York, NY 10013 its successors, assigns and legal representatives (hereinafter, the "Assignee"), the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and as possessed by the undersigned, any and all inventions which are disclosed but not claimed in the application for United States Patent U.S. Serial No. 14/568,456 filed December 12, 2014 and is entitled:

**EVOLUTIONARY MODELS OF MULTIPLE SEQUENCE ALIGNMENTS TO PREDICT  
OFFSPRING FITNESS PRIOR TO CONCEPTION**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application, including but not limited to prior US Provisional Application No. 62/013,139 filed June 17, 2014; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions; and including the Assignor's right in and to all revenue, income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment. I hereby authorize and request the attorney of record of the firm Pearl Cohen Zedek Latzer Baratz LLP, 1500 Broadway, 12<sup>th</sup> Floor, New York, New York 10036, to insert in the parentheses above, the filing date and US Serial No. of said application when known;

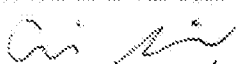
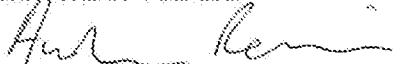
Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

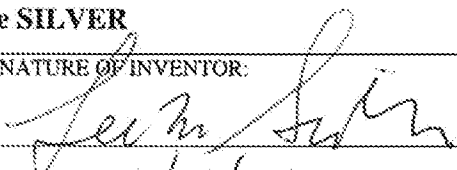
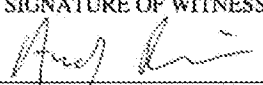
Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the under-signed or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

**COVENANT** with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

FULL NAME OF INVENTOR: <b>NIGEL DELANEY</b>	FULL NAME OF WITNESS:
SIGNATURE OF INVENTOR:	SIGNATURE OF WITNESS:
DATE: _____ (day / month / year)	ADDRESS OF WITNESS:

Docket No.: P-78275-US

FULL NAME OF INVENTOR: <b>Ari SILVER</b>	FULL NAME OF WITNESS: Andrew Remis
SIGNATURE OF INVENTOR: 	SIGNATURE OF WITNESS: 
DATE: <u>1/5/15</u> (day / month / year)	ADDRESS OF WITNESS: 175 Varick Street - 6 <sup>th</sup> Floor New York, NY 10014

FULL NAME OF INVENTOR: <b>Lee SILVER</b>	FULL NAME OF WITNESS: Andrew Remis
SIGNATURE OF INVENTOR: 	SIGNATURE OF WITNESS: 
DATE: <u>1/5/15</u> (day / month / year)	ADDRESS OF WITNESS: 175 Varick Street - 6 <sup>th</sup> Floor New York, NY 10014