

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT3254301

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ELENA FEINSTEIN	09/15/2013
SHARON AVKIN-NACHUM	09/15/2013
HAGAR KALINSKI	09/15/2013
IGOR METT	09/15/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	QUARK PHARMACEUTICALS, INC.
<b>Street Address:</b>	6501 DUMBARTON CIRCLE
<b>City:</b>	FREMONT
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94555
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14426513
<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>	jalmond@nutter.com
<b>Correspondent Name:</b>	NUTTER MCCLENNEN & FISH LLP
<b>Address Line 1:</b>	155 SEAPORT BOULEVARD
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<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210
<b>ATTORNEY DOCKET NUMBER:</b>	115340-23201
<b>NAME OF SUBMITTER:</b>	KONSTANTIN M. LINNIK
<b>SIGNATURE:</b>	/Konstantin M. Linnik/
<b>DATE SIGNED:</b>	03/06/2015
<b>Total Attachments: 2</b>	
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source=115340-23201_Assignment#page2.tif	

**Assignment of Application**

*In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,*

Elena FEINSTEIN, residing at 13/55 HaCarmel Street, Rehovot, Israel  
Sharon AVKIN-NACHUM, residing at 4 Hakramim Street, Nes Zionna 74054, Israel  
Hagar KALINSKI, residing at 1 Haim Landau Street, Rishon-le-Zion 75701, Israel  
Igor METT, residing at 9/1 Paldi Street, Rehovot 76248, Israel

*Hereby sell, assign and transfer to Quark Pharmaceuticals, Inc., a corporation of the State of California, having a place of business at 6501 Dumbarton Circle, Fremont, in the County of Alameda and State of California, its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, in the PCT International application, which is entitled*

DOUBLE-STRANDED OLIGONUCLEOTIDE MOLECULES TO DDIT4 AND METHODS OF  
USE THEREOF

(PCT International Patent Application No. PCT/US2013/059341, filed September 12, 2013)

*and in and to said application and all applications for patents in any and all countries, including the United States of America, including divisional, continuation, continuation in part, substitute, renewal, reissue, re-examination or extension thereof, and all other applications for international or U.S. Letters Patent or other related property rights in any and all countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related documents which have been or shall be issued on said inventions;*


*Authorize and request the Commissioner for 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 Patents or rights of any other kind for said inventions, or any of them in any and all countries, including the United States of America; and may claim, in applications for said Patents or other rights, the benefit of the aforesaid PCT 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 undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all applications for Patents, including any including divisional, continuation, continuation in part, substitute, renewal, reissue, re-examination or extension, 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 rights and all patents on said inventions in any and all countries, including the United States of America, in said Assignee, its successors, assigns and legal representatives; and

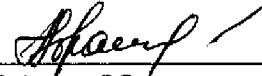
Agree to cooperate with said Assignee in any and all prosecution, litigation and/or re-examination regarding the invention, patent or applications for patents regarding the invention, including testifying for the benefit of said Assignee without further or additional compensation other than that provided in this Assignment.

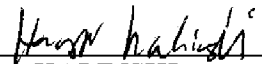
Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed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

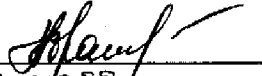
Date: SEPTEMBER 15 2013  [L.S.]  
 Elena FEINSTEIN

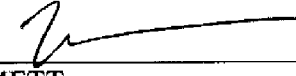
Witness:  [signature]  
A. ABRAMOFF [printed name]  
3 Shevet Gad St., Ashdod, [address]  
Israel

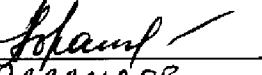
Date: SEPTEMBER 15 2013  [L.S.]  
 Sharon AVKIN-NACHUM

Witness:  [signature]  
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Israel

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