

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sharon Avkin-Nachum</td> <td>06/19/2012</td> </tr> <tr> <td>Elena Feinstein</td> <td>06/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	Sharon Avkin-Nachum	06/19/2012	Elena Feinstein	06/19/2012				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Quark Pharmaceuticals, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>6501 Dumbarton Circle</td> </tr> <tr> <td>City:</td> <td>Fremont</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94555</td> </tr> </table>		Name:	Quark Pharmaceuticals, Inc.	Street Address:	6501 Dumbarton Circle	City:	Fremont	State/Country:	CALIFORNIA	Postal Code:	94555
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Application Number:	13521033										
CORRESPONDENCE DATA											
<p>Fax Number: (212)391-0525 Phone: 212-278-0400 Email: jwhite@cooperdunham.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: Cooper & Dunham LLP Address Line 1: 30 Rockefeller Plaza Address Line 4: New York, NEW YORK 10112</p>											
ATTORNEY DOCKET NUMBER:	2094/84192/JPW/GC										
NAME OF SUBMITTER:	Cindy Shu										
<p>Total Attachments: 3 source=120710_2094_84192_Assignment_GC_Page_1#page1.tif source=120710_2094_84192_Assignment_GC_Page_2#page1.tif source=120710_2094_84192_Assignment_GC_Page_3#page1.tif</p>											

CH \$40.00 13521033

PATENT

Attorney Docket No. 2094/84192/JPW/GC

Assignment of Non-Provisional Application

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

Sharon AVKIN-NACHUM of 4 Hakramim Street, 74054 Nes Zionna, Israel; and

Elena FEINSTEIN of 13/55 HaCarmel Street, 76305 Rehovot, 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, California 94555, 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, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on June 19, 2012 and June 19, 2012 and is entitled

OLIGONUCLEOTIDE COMPOUNDS COMPRISING NON-NUCLEOTIDE OVERHANGS (U.S. Serial No. 13/521,033, § 371 national stage of PCT International Application No. PCT/US2011/020298, filed January 6, 2011, claiming the benefit of PCT International Application No. PCT/US2010/049047, filed September 16, 2010 and U.S. Provisional Application No. 61/292,878, filed January 7, 2010)

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; and in and to all original and reissued patents or related foreign 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;

JPW Rev. April 19, 2007

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 undersigned 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.

Date: 19 June 2012
 Witness: [Signature] [signature]
R. ABERNETHY [printed name]
813 SHABAZI ST. 1 [address]
ASHDOD, ISRAEL

[Signature]
 Sharon AVKIN-MACHUM

Date: 19 June 2012
Witness: [Signature] (signature)
A. ABRAMER (printed name)
8/3 SHABAZI ST. (address)
ASHDOD, ISRAEL

[Signature] [LS]
Elena FEINSTEIN