

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Kelly Sullivan Kraft	01/11/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MannKind Corporation
<b>Street Address:</b>	28903 North Avenue Paine
<b>City:</b>	Valencia
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	91355
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12649210
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)253-0902
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	949-253-0900
<b>Email:</b>	maria.nadal@klgates.com
<b>Correspondent Name:</b>	Louis C. Cullman
<b>Address Line 1:</b>	1900 Main Street, Suite 600
<b>Address Line 4:</b>	Irvine, CALIFORNIA 92614-7319
<b>ATTORNEY DOCKET NUMBER:</b>	1951300.00041
<b>NAME OF SUBMITTER:</b>	Louis C. Cullman
<b>Total Attachments: 2</b> source=EXECUTED ASSIGNMENT#page1.tif source=EXECUTED ASSIGNMENT#page2.tif	

CH \$40.00 12649210

501104724

**PATENT**  
**REEL: 024002 FRAME: 0529**

**ASSIGNMENT**

**WHEREAS, I, Kelly Sullivan Kraft** have invented certain new and useful invention entitled "**SUBSTITUTED DIKETOPIPERAZINE ANALOGS FOR USE AS DRUG DELIVERY AGENTS**" disclosed in the following patent applications:

U.S. 12/649,210  
PCT/US2009/069745  
U.S. 61/141,207

Filed December 29, 2009  
Filed December 29, 2009  
Filed December 29, 2008

**AND WHEREAS MannKind Corporation.**, having a place of business at 28903 North Avenue Paine, Valencia, California 91355 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said inventions and improvements thereto and application.

**NOW, THEREFORE**, for good and valuable consideration already received, the receipt of which is hereby acknowledged, I have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to said inventions, and said application and all divisions, continuations and continuations-in-part thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, all national and regional applications deriving therefrom, and all subsequent patents and divisional patents, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all continuations, continuations-in-part, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said inventions in any foreign countries; and I hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said inventions to ASSIGNEE in accordance with the terms of this Assignment;

**AND I HEREBY** covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

**AND I HEREBY** further covenant and agree that I will communicate to ASSIGNEE any facts known to us respecting said inventions, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuations-in-part, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said inventions in all countries.

1951300.00041

IN TESTIMONY WHEREOF, I hereunder set my hand this 11 day of January, 2010.

Kelly Sullivan Kraft  
Kelly Sullivan Kraft  
Assignor

*New York Bm. 1/10*  
STATE OF CALIFORNIA )  
COUNTY OF Putnam ) ss.

On this 11 day of January 2010, before me, \_\_\_\_\_, notary public, personally appeared **Kelly Sullivan Kraft** proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person or entity upon behalf of which the person acted, executed the instrument.

(SEAL)

Barbara A. Murphy  
Notary Public

\*\*\*\*\*

