

# PATENT ASSIGNMENT

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
John Bruce Patterson	01/04/2006
Kori Shallyn Volkmann	01/04/2006
Duane Brumm	01/06/2006
Caryn Stiles	01/06/2006
<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>	13185693
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)824-3001
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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<b>Email:</b>	lhemmendinger@bannervitcoff.com,bharrison@bannervitcoff.com
<b>Correspondent Name:</b>	Lisa M. Hemmendinger
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<b>ATTORNEY DOCKET NUMBER:</b>	005184.00063
<b>NAME OF SUBMITTER:</b>	Lisa M. Hemmendinger
<b>Total Attachments: 1</b> source=executed Assignment (copy from parent)#page1.tif	

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**PATENT**  
**REEL: 026613 FRAME: 0322**

## ASSIGNMENT

WHEREAS, WE, John Bruce Patterson, citizen of United States, residing at 3675 Mound Ave, Ventura, California 93003; Kori Shallyn Volkmann, citizen of United States, residing at 20101 Edgewater Dr., Canyon County, California 91351; Duane Brumm, citizen of United States, residing at 460 Havenside Ave., Newbury Park, California 91320; and Caryn Stiles, citizen of United States, residing at 648 North Mar Vista, Pasadena, California 91106, have invented certain new and useful improvements in "IRE-1α SUBSTRATES" for which an application for Letters Patent of the United States was filed on November 4, 2005, and accorded Serial No. 11/266,603 and

WHEREAS, MannKind Corporation, a corporation having a place of business in 28903 North Avenue Paine, Valencia, California, USA, desires to acquire the entire right, title and interest in and to the aforesaid invention and in and to any Letters Patent of the United States or any foreign country which may be granted therefor;

NOW THEREFORE, for good and valuable consideration, we, John Bruce Patterson, Kori Shallyn Volkmann, Duane Brumm, and Caryn Stiles, by these presents do sell, assign, and transfer MannKind Corporation, its successors, legal representatives and assigns, our full right to the invention described in the said application, and our entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks or any other proper officer or agency of any country to issue all said Letters Patent to said assignee;

AND WE HEREBY warrant and covenant that we have full right to convey our entire interest herein assigned and that we have not executed and will not execute any instrument or assignment in conflict herewith;

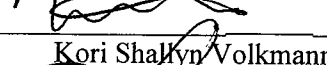
AND WE HEREBY agree to communicate to said assignee or its representatives any facts known to us respecting said invention, to execute all divisional, continuation, reissue and foreign applications, sign all lawful documents and make all rightful oaths relating to said invention, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the said assignee to obtain and enforce said Letters Patent in the United States or any foreign country when requested so to do by said assignee.

IN WITNESS WHEREOF, we have hereunto set our hand and seal.

Date: 1-04-06

Inventor:   
John Bruce Patterson

Date: 1-04-06

Inventor:   
Kori Shallyn Volkmann

Date: 1/6/06

Inventor:   
Duane Brumm

Date: 1-6-06

Inventor:   
Caryn Stiles