PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kurt Vagle	06/20/2013
William S. Marshall	06/20/2013
Christina Dalby	06/20/2013

RECEIVING PARTY DATA

Name:	Miragen Therapeutics
Street Address:	6200 Lookout Road
City:	Boulder
State/Country:	COLORADO
Postal Code:	80301

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	13883363
PCT Number:	US2011059588

CORRESPONDENCE DATA

Fax Number: 2028427899

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2028427800

Email: jbegley@cooley.com

Correspondent Name: Cooley LLP

Address Line 1: 1299 Pennsylvania Avenue NW

Address Line 2: Patent Group

Address Line 4: Washington, DISTRICT OF COLUMBIA 20004-2400

ATTORNEY DOCKET NUMBER:	308934-2329 308934-2179	
NAME OF SUBMITTER:	Mark L. Hayman	
Signature:	/Mark L. Hayman/	PATENT

502429796 REEL: 030856 FRAME: 0557

13883363

00 08*6*

Date:	07/23/2013
Total Attachments: 5 source=MIRG-024-01US_ASSIGNMENT#pasource=MIRG-024-01U	age2.tif age3.tif age4.tif

PATENT REEL: 030856 FRAME: 0558

Attorney Docket No: MIRG-024/01US 308934-2145 and MIRG-024/01WO308934-2179

ASSIGNMENT

<u>Kurt VAGLE</u>, of Boulder, Colorado, <u>Christina DALBY</u> of Boulder, Colorado and <u>William S. MARSHALL</u>, of Boulder Colorado and (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled BASE MODIFIED OLIGONUCLEOTIDES, and which is a:

-(1)	provision	al application
	(a)	[] to be filed herewith; or
	(b)	bearing Application No, and filed on
		or
(2)	⊠ non-prov	isional application
- 7	(a)	to be filed herewith; or
	(b)	bearing Application No. 13/883,363, and filed on
	* <u>*</u>	May 3, 2013; or
(3)	□ PCT app	ication
71 5	(a)	bearing Application No. PCT/US2011/059588, and
	filed	on November 7 7011

WHEREAS, MIRAGEN THERAPEUTICS, having its principal place of business at 6200 Lookout Road, Boulder, CO 80301 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention; the application for patent identified in paragraph (1), (2) and/or (3); the right to file applications for patent of the United States or other countries on the Invention; any application for patent of the United States or other countries claiming priority to these application; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) (2) and/or (3);
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the

122203 v1/BN

PATENT REEL: 030856 FRAME: 0559 Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1), (2), or (3) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and
- (f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and
- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignor, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

122203 v1/BN

PATENT REEL: 030856 FRAME: 0560

Attorney Docket No. MIRG-024/00US 308934-2145 and MIRG-024/01WO308934-2179

Page 3

Date: 100003 By: Sylvagle
State of CONNACO
County of Powler St.
On June 20 2013 before me, Talant 4 and Notary
Public, personally appeared KURT Van by who proved to me
on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed
to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the
instrument the person(s), or the entity upon behalf of which the person(s) acted, executed
the instrument.
TAMMY H. AMES NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20084033105 WY COMMISSION EXPIRES OCTOBER 18, 2016
Signature of Notary Public Place Notary Seal Above
My Commission Expires: 10/1/Q/QOIQ

Attorney Docket No. MIRG-024/00US 308934-2145 and MIRG-024/01WO308934-2179 Page 4

Date:By:
State of County of County of Southern State of S
On Superago 3013, before me, Takony H. (10065, Notary Public, personally appeared (10065), who proved to me
on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed
to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed
the instrument.
WITNESS my hand and official seal.
Signature of Notary Public Place Notary Seal Above
My Commission Expires: 10/14/2016

Attorney Docket No. MIRG-024/00US 308934-2145 and MIRG-024/01WO308934-2179

Page 5

Date: 6 70 S By:
William S. MARSHALL
State of
County of Coulder ss.
On June 20, 2013, before me, Taxway H. Mys., Notary
Public, personally appeared 10 10 000 S 10 000 Who proved to me
on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed
to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the
instrument the person(s), or the entity upon behalf of which the person(s) acted, executed
the instrument.
WITNESS my hand and official seal WITNESS my hand and official seal
Signature of Notary Public Place Notary Seal Above
My Commission Expires: 10/16/2016

REEL: 030856 FRAME: 0563