

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4337297

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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>                 |
| ERIC BRIAN KMIEC  | 02/28/2017                            |
| PAWEL ALEXANDER BIALK   | 02/28/2017                            |
| <b>RECEIVING PARTY DATA</b>   |                                       |
| <b>Name:</b>  | CHRISTIANA CARE HEALTH SERVICES, INC. |
| <b>Street Address:</b>  | 4701 OGLETOWN STANTON ROAD            |
| <b>City:</b>  | NEWARK                                |
| <b>State/Country:</b>   | DELAWARE                              |
| <b>Postal Code:</b>   | 19713                                 |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                       |
| <b>Property Type</b>  | <b>Number</b>                         |
| <b>Application Number:</b>  | 15402833                              |
| <b>CORRESPONDENCE DATA</b>  |                                       |
| <b>Fax Number:</b>  | (610)251-1408                         |
| <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>Phone:</b>   | 610-251-5775                          |
| <b>Email:</b>   | patents@saul.com, jchungo@saul.com    |
| <b>Correspondent Name:</b>  | SAUL EWING LLP                        |
| <b>Address Line 1:</b>  | 1200 LIBERTY RIDGE DRIVE              |
| <b>Address Line 2:</b>  | SUITE 200                             |
| <b>Address Line 4:</b>  | WAYNE, PENNSYLVANIA 19087-5569        |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 368477.00010                          |
| <b>NAME OF SUBMITTER:</b>   | GREGORY S. BERNABEO, REG. NO. 44,032  |
| <b>SIGNATURE:</b>   | /Gregory S. Bernabeo/                 |
| <b>DATE SIGNED:</b>   | 03/27/2017                            |
| <b>Total Attachments: 4</b>   |                                       |
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| source=368477.00010 - Assignment#page2.tif  |                                       |
| source=368477.00010 - Assignment#page3.tif  |                                       |
| source=368477.00010 - Assignment#page4.tif  |                                       |

ASSIGNMENT

WHEREAS, we, **Eric Brian Kmiec**, a citizen of the United States, having a mailing address of 130 Nantucket Drive Middletown Delaware 19709, and **Pawel Alexander Bialk**, a citizen of the United States, having a mailing address of 1323 North DuPont Street, Wilmington Delaware 19806, hereinafter generally referred to as "ASSIGNORS," have invented a certain new and useful

**COMPOSITIONS AND METHODS FOR IMPROVING HOMOGENEITY OF DNA  
GENERATED USING A CRISPR/CAS9 CLEAVAGE SYSTEM**

for which we have executed U.S. Patent Application No. 15/402,833, filed January 10, 2017.

WHEREAS, **Christiana Care Health Services, Inc.**, with a principal place of business at 4701 Ogletown Stanton Road, Newark, DE 19713, hereinafter generally referred to as "ASSIGNEE," is desirous of acquiring said invention and said patent application.

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, we, the undersigned ASSIGNORS, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, all PCT and national phase applications, along with all rights of priority created by said patent application under any treaty relating thereto, including the right to claim priority to said patent application, *e.g.*, under the International Convention for the Protection of Industrial Property and the European Patent Convention; and

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the

same would have been held by the undersigned ASSIGNORS had this assignment and sale not been made; and for the aforesaid consideration ASSIGNORS hereby covenant, agree and undertake to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNORS

AND ASSIGNORS acknowledge an obligation of assignment of this invention to ASSIGNEE at the time the invention was made.

2/28/17

Date

Eric Brian Kmiec  
Eric Brian Kmiec

(Seal)

STATE OF Delaware :  
COUNTY OF New Castle : ss.

Before me, a notary public in and for the State and County aforesaid, on this 28th day of February, 2017, personally appeared **Eric Brian Kmiec**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Molly Anne Petrillo  
Notary Public

My Commission Expires: 5/2/18



2/28/17  
Date

Pawel Alexander Bialk (Seal)  
Pawel Alexander Bialk

STATE OF Delaware :  
COUNTY OF New Castle : ss.

Before me, a notary public in and for the State and County aforesaid, on this 27th day of February, 2017, personally appeared **Pawel Alexander Bialk**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Molly Anne Petrillo  
Notary Public

My Commission Expires: 5/2/18



ASSIGNEE

3-1-2017  
Date

APPROVED  
BY LEGAL  
*RD*

*Thomas L. Corrigan* (Seal)  
Christiana Care Health Services, Inc.  
By: Thomas L. Corrigan, Executive Vice  
President & Chief Financial Officer

STATE OF Delaware:  
COUNTY OF New Castle: ss.

Before me, a notary public in and for the State and County aforesaid, on this 1<sup>st</sup> day of March, 2017, personally appeared **Thomas L. Corrigan**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

*Theresa M. Walsh*  
Notary Public

My Commission Expires: 2-3-2021