

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Rex E. Gerald II</td> <td>09/03/2010</td> </tr> <tr> <td>Katarina J. Ruscic</td> <td>08/30/2010</td> </tr> <tr> <td>Luis J. Smith</td> <td>09/09/2010</td> </tr> <tr> <td>Robert J. Klingler</td> <td>08/31/2010</td> </tr> <tr> <td>Jerome W. Rathke</td> <td>09/14/2010</td> </tr> </tbody> </table>		Name	Execution Date	Rex E. Gerald II	09/03/2010	Katarina J. Ruscic	08/30/2010	Luis J. Smith	09/09/2010	Robert J. Klingler	08/31/2010	Jerome W. Rathke	09/14/2010
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RECEIVING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>U.S. Department of Energy</td> </tr> <tr> <td>Street Address:</td> <td>1000 Independence Avenue, S.W.</td> </tr> <tr> <td>Internal Address:</td> <td>GC-62, 6F-048</td> </tr> <tr> <td>City:</td> <td>Washington</td> </tr> <tr> <td>State/Country:</td> <td>DISTRICT OF COLUMBIA</td> </tr> <tr> <td>Postal Code:</td> <td>20585-0162</td> </tr> </table>		Name:	U.S. Department of Energy	Street Address:	1000 Independence Avenue, S.W.	Internal Address:	GC-62, 6F-048	City:	Washington	State/Country:	DISTRICT OF COLUMBIA	Postal Code:	20585-0162
Name:	U.S. Department of Energy												
Street Address:	1000 Independence Avenue, S.W.												
Internal Address:	GC-62, 6F-048												
City:	Washington												
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PROPERTY NUMBERS Total: 1													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12838608</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12838608								
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CORRESPONDENCE DATA													
<p>Fax Number: (202)586-7127 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-586-2810 Email: katherine.baldwin@hq.doe.gov Correspondent Name: Katherine Baldwin Address Line 1: 1000 Independence Avenue, S.W. Address Line 2: GC-62, 6F-048 Address Line 4: Washington, DISTRICT OF COLUMBIA 20585-0162</p>													
ATTORNEY DOCKET NUMBER:	S-122,813												

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PATENT
REEL: 026338 FRAME: 0388

NAME OF SUBMITTER:

Katherine Baldwin

Total Attachments: 5

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PATENT

REEL: 026338 FRAME: 0389

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Joint

U.S. Department of Energy Patent Assignment Form

Whereas, we, Rex E. Gerald, II, Katarina J. Ruscic, Devin N. Sears, Luis J. Smith, Robert J. Klingler and Jerome W. Rathke

have invented certain new and useful improvements in :

Active Membrane Having Uniform Physico-Chemically Functionalized Ion Channels

, for which we are about to file an application for United States Letters Patent, identified as S-122,812

and;

WHEREAS, the Government of the United States desires to acquire the entire right, title, and interest in and to said invention and in and to any Letters Patent wherever they may be issued thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar to us in hand paid by the Government of the United States, and for other good and valuable consideration, the receipt of which is hereby acknowledged, we by these presents do sell, assign, and transfer unto the said Government of the United States, as represented by the United States Department of Energy, and/or its assigns, the entire right, title, and interest in and to the said invention and in and to any and all Letters Patent wherever they may be granted thereon as well as reissues and extensions of said Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held or enjoyed by us had this assignment not been made.

We agree to make, execute, and deliver unto the Government of the United States, or to the United States Department of Energy, any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other forms, terms and contents as may be required by the United States Department of Energy, or its duly authorized representative, in or incident to the prosecution or conduct of any and all applications, before as well as after the issuance of any Letters thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said applications may encounter or in which they may become involved and we agree that we will encounter or in which they may become involved and we agree that we will aid the Government of the United States in every way in protecting the inventions as may be requested by the United States Department of Energy or its assigns, except that any expenses arising through extending such assistance will be paid for by proper arrangement with the Government of the United States.

Inventor:

Full name of Inventor: Rex E. Gerald, II

Inventor's signature: Rex E. Gerald IIDate 9-3-2010Street Address: 141 B Willows Edge Ct.City, State: Willow Springs, IL 60480Citizenship: US**Witness to Signature:**Full name of Witness: Maria R. BlasierWitness' Signature: Maria R BlasierDate 9-3-2010**Inventor:**

Full name of Inventor: Katarina J. Ruscic

Inventor's signature: Katarina RuscicDate Aug 30, 2010Street Address: 5551 S. Kimbark Ave. Apt. #17City, State: Chicago, IL 60637Citizenship: United States of America**Witness to Signature:**Full name of Witness: Leigh D. PlantWitness' Signature: Leigh D. PlantDate Aug 30, 2010

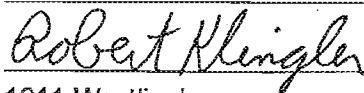
Inventor:	
Full name of Inventor: Devin N. Sears	
Inventor's signature:	Date
Street Address:	
City, State:	
Citizenship:	
Witness to Signature:	
Full name of Witness:	
Witness' Signature:	Date

Inventor:	
Full name of Inventor: Luis J. Smith	
Inventor's signature: <i>Luis J. Smith</i>	Date Sep 9, 2010
Street Address: 33 Ruggles St	
City, State: Westborough, Massachusetts	
Citizenship: United States of America	
Witness to Signature:	
Full name of Witness: Maureen Baril	
Witness' Signature: <i>Maureen Baril</i>	Date Sep 9, 2010

Inventor:

Full name of Inventor: Robert J. Klingler

Inventor's signature:



Date 8/31/2010

Street Address:

1911 Westliegh

City, State:

Glenview, IL 60025

Citizenship:

U.S.

Witness to Signature:

Full name of Witness:

Wei Weng

Witness' Signature:

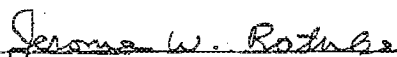


Date 08/31/2010

Inventor:

Full name of Inventor: Jerome W. Rathke

Inventor's signature:



Date Sep 14, 2010

Street Address:

15111 Wood Duck Ln

City, State:

Homer Glen, Illinois 60491

Citizenship:

USA

Witness to Signature:

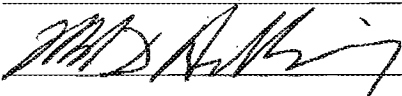

Full name of Witness:

Barbara J. Rathke

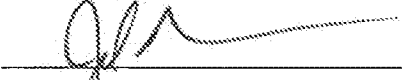
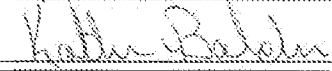
Witness' Signature:



Date Sep 14, 2010

Contractor Approval and Consent:Full Name: Mark D. HilliardSignature:  Date 9/14/10Title: Chief Patent Counsel**Witness to Signature:**Full name of Witness: Debbie J. KrakowskiWitness' Signature:  Date 9/14/10**Government Acceptance:**

Accepted for the Benefit of the Government of the United States.

Full Name: John T. LucasSignature:  Date 3/15/2011Title: Assistant General Counsel for Technology
Transfer and Intellectual Property**Witness to Signature:**Full name of Witness: Katherine BaldwinWitness' Signature:  Date 5-24-11