# 503657004 01/20/2016 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3703638

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY	DATA			
		Name Execution		
JOHN J DUNN			06/10/2011	
RECEIVING PARTY D				
Name:		BROOKHAVEN SCIENCE ASSOCIATES, LLC		
Street Address:		40 BROOKHAVEN AVE.		
Internal Address:		BUILDING 460		
City:	UPTON			
State/Country:	NEW YO	NEW YORK		
Postal Code:	11973-50	000		
Application Number:	14	4078390		
	-			
CORRESPONDENCE	DATA	812)474-0448		
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i>	DATA (3 be sent to t if provided;	312)474-0448 the e-mail address first; if that is u if that is unsuccessful, it will be s		
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone:	DATA (3 be sent to t if provided; 3	312)474-0448 t <b>he e-mail address first; if that is u</b> <b>if that is unsuccessful, it will be s</b> 12-474-6300		
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email:	DATA (3 be sent to t if provided; 3 kd	312)474-0448 t <b>he e-mail address first; if that is u</b> <b>if that is unsuccessful, it will be s</b> 12-474-6300 dola@marshallip.com	ent via US Mail.	
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name	DATA (3 be sent to t if provided; 3 ko e: M	312)474-0448 t <b>he e-mail address first; if that is u</b> <b>if that is unsuccessful, it will be s</b> 12-474-6300	ent via US Mail.	
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1:	DATA (3 be sent to t if provided; 3 ko e: M 23	312)474-0448 t <b>he e-mail address first; if that is u</b> <b>if that is unsuccessful, it will be s</b> 12-474-6300 dola@marshallip.com IARSHALL, GERSTEIN & BORUN L	ent via US Mail.	
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2:	DATA (3 be sent to t if provided; 3 ko e: M 23 c c 6	312)474-0448 t <b>he e-mail address first; if that is u</b> <b>if that is unsuccessful, it will be s</b> 12-474-6300 dola@marshallip.com IARSHALL, GERSTEIN & BORUN L 33 S. WACKER DRIVE	ent via US Mail.	
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	DATA (3 be sent to t if provided; 3 ko c c c C	812)474-0448 the e-mail address first; if that is u if that is unsuccessful, it will be so 12-474-6300 dola@marshallip.com 1ARSHALL, GERSTEIN & BORUN L 33 S. WACKER DRIVE 300 WILLIS TOWER	ent via US Mail.	
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	DATA (3 be sent to t if provided; 3 kt s: M 23 c C NUMBER:	312)474-0448 the e-mail address first; if that is u if that is unsuccessful, it will be so 12-474-6300 dola@marshallip.com IARSHALL, GERSTEIN & BORUN L 33 S. WACKER DRIVE 300 WILLIS TOWER CHICAGO, ILLINOIS 60606	ent via US Mail.	
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET I	DATA (3 be sent to t if provided; 3 kt s: M 23 c C NUMBER:	B12)474-0448 B12-474-0448 If that is unsuccessful, it will be so 12-474-6300 dola@marshallip.com IARSHALL, GERSTEIN & BORUN L 33 S. WACKER DRIVE 300 WILLIS TOWER HICAGO, ILLINOIS 60606 31315/44557A2DV1	ent via US Mail.	
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2:	DATA (3 be sent to t if provided; 3 kt s: M 23 c C NUMBER:	B12)474-0448 The e-mail address first; if that is u if that is unsuccessful, it will be so 12-474-6300 dola@marshallip.com IARSHALL, GERSTEIN & BORUN L 33 S. WACKER DRIVE 300 WILLIS TOWER SHICAGO, ILLINOIS 60606 31315/44557A2DV1 KRISTEN A. DOLA	ent via US Mail.	
CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER SIGNATURE:	DATA (3 be sent to t if provided; 3 kt s: M 23 c C NUMBER:	812)474-0448 the e-mail address first; if that is u if that is unsuccessful, it will be se 12-474-6300 dola@marshallip.com IARSHALL, GERSTEIN & BORUN L 33 S. WACKER DRIVE 300 WILLIS TOWER HICAGO, ILLINOIS 60606 31315/44557A2DV1 KRISTEN A. DOLA /Kristen A. Dola/	ent via US Mail.	
CORRESPONDENCE Fax Number: <i>Correspondence will using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4: TTORNEY DOCKET I AME OF SUBMITTER IGNATURE: DATE SIGNED:	DATA (3 be sent to t if provided; 3 k c c c c NUMBER: c NUMBER: c aven#page1.	312)474-0448 the e-mail address first; if that is u if that is unsuccessful, it will be se 12-474-6300 dola@marshallip.com IARSHALL, GERSTEIN & BORUN L 33 S. WACKER DRIVE 300 WILLIS TOWER CHICAGO, ILLINOIS 60606 31315/44557A2DV1 KRISTEN A. DOLA /Kristen A. Dola/ 01/20/2016 .tif	ent via US Mail.	

### BSA Docket No. BSA 11-27

### ASSIGNMENT

### Individual

WHEREAS, I John J. Dunn citizen of the United States, residing in <u>Bellport</u>, County of <u>Suffolk</u>, State of <u>New</u> <u>York</u>, ASSIGNOR, am an inventor of an invention and certain new and useful improvements disclosed in an application entitled <u>"Chimeric OspA Genes, Proteins, and Methods of Use Thereof"</u>; I filed the said non-provisional application at the United States Letters Patent on <u>05/13/2011</u> accorded S.N. <u>13/107,796</u>; and

WHEREAS, the Brookhaven Science Associates, incorporated in Delaware (BSA), having an office at 40 Brookhaven Avenue, Building 460, Upton, NY 11973-5000, desires to acquire the entire right, title, and interest in, under and to the said invention and improvements which are disclosed in the said application, and any Letters Patent wherever they may be issued thereon;

WHEREAS, BSA has elected to take title to said invention pursuant to P.L. 98-620 and has informed the U.S. Department of Energy has not exercised any exceptions thereto under either 401.3(a)(2) or (3) of P.L. 98-620, but retains the right to do so;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned ASSIGNOR by these presents do sell, assign, and transfer unto BSA the entire right, title, and interest in, under and to the said invention and improvements as disclosed in the said application as well as any divisional, continuation, renewal, substitute, reissue, reexamination, conversion, and all other applications for Letters Patent or the legal equivalent thereof wherever they may be filed, and in, under and to any and all Letters Patent or the legal equivalent thereof wherever they may be issued thereon including all original, reissue, reexamination, and extensions of said Letters Patent or the legal equivalent thereof;

AND I HEREBY authorize and request the issuing authority whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to and in the name of the Brookhaven Science Associates;

AND I HEREBY covenant and agree that I have full right to convey the entire right, title and interest herein assigned, and that I have not executed, and will not execute, any assignment, grant, mortgage, license or other agreement in conflict herewith;

AND I HEREBY agree to make, execute, and deliver unto BSA any and all rightful oaths, declarations, assignments, powers of attorney, affidavits, statements, and all other documents or instruments; I agree to execute all renewal, divisional, continuation, substitute, reexamination, foreign, reissue, and all other applications; I agree to communicate to BSA, its successors, legal representatives, or its assigns, any facts known to us respecting the said invention and improvements and the history thereof; I agree to testify as to the same in or incident to the prosecution or conduct of any and all applications, before as well as after the issuance of any Letters Patent thereon, or in the adjustment or settlement of any interferences, litigations, or other actions or proceedings that said applications may encounter or in which they may become involved as may be required by BSA, or its duly authorized representative; and I agree to generally do everything possible to aid BSA in protecting the said invention and improvements, and in obtaining, maintaining, defending and enforcing proper protection for the said invention and improvements as may be requested by BSA, its successors, legal representatives or its assigns, except that any expenses arising through extending such assistance will be paid for by proper arrangement with BSA;

## PATENT REEL: 037536 FRAME: 0515

AND I HEREBY agree and acknowledge that the sale, assignment and transfer of rights and property set forth herein is and shall be irrevocable and binding upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and shall extend to the successors, assigns and nominees of BSA.

IN TESTIMONY WHEREOF, I hereunto set our hands and seals the day and year set opposite our respective signatures.

L.S. Date: \_ 6/10/11 ÓHN J. DƯNŇ

State of WiLLIAM S. RUSSELL Notary Public, State of NY No. 01RU6215070 Qualified in Suffolk County County of Commission Expires December 12, 2013

On this <u>10</u> day of <u>June</u>, 2011, before me, a Notary Public in and for the State and County aforesaid, personally appeared **JOHN J. DUNN**, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and s/he acknowledged the same to be her/his free act and deed.

will h

NOTARY PUBLIC

# PATENT REEL: 037536 FRAME: 0516

RECORDED: 01/20/2016