PATENT ASSIGNMENT

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY D	ATA			
		Name	Execution Date	
David J. Hackam			11/28/2011	
RECEIVING PARTY DA	TA			
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Property Type Application Number: 1306		Number 8553		
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NAME OF SUBMITTER:		Lillian Garcia		
Total Attachments: 2 source=Assignment_072 source=Assignment_072				

072396,0438 PATENT

ASSIGNMENT

WHEREAS, I/WE, DAVID J. HACKAM, a citizen of the United States, having a post office address at 5506 Aylesboro, Pittsburgh, PA 15217, (hereinafter "ASSIGNORS"), have made an invention entitled "USE OF TOLL-LIKE RECEPTOR-9 AGONISTS, TOLL-LIKE RECEPTOR-4 ANTAGONISTS, AND/OR NUCLEAR OLIGOMERIZATION DOMAIN-2 AGONISTS FOR THE TREATMENT OR PREVENTION OF TOLL-LIKE RECEPTOR-4-ASSOCIATED DISORDERS" as set forth and described in application for Letters Patent of the United States, Application Serial No. 13/068,553, filed May 13, 2011; and

WHEREAS, UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION (hereinafter "ASSIGNEE"), having its principal place of business at 200 Gardner Steel Conference Center, Thackeray and O'Hara Streets, Pittsburgh, PA is desirous of acquiring the whole right, title and interest of ASSIGNORS in and to said Letters Patent and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said ASSIGNORS, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said ASSIGNEE, and other valuable considerations unto us moving from said ASSIGNEE, at or before the ensealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the said invention entitled "USE OF TOLL-LIKE RECEPTOR-9 AGONISTS, TOLL-LIKE RECEPTOR-4 ANTAGONISTS, AND/OR NUCLEAR OLIGOMERIZATION DOMAIN-2 ACONISTS FOR THE TREATMENT OR PREVENTION OF TOLL-LIKE RECEPTOR-4-ASSOCIATED DISORDERS" and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said **ASSIGNORS**, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said **ASSIGNEE**, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **ASSIGNEE**, its successors and assigns;

AND WE, the said **ASSIGNORS**, for the considerations aforesaid, do hereby covenant and agree to and with said **ASSIGNEE**, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or NY02.717157.1

> PATENT REEL: 027328 FRAME: 0678

Page: 516

072396.0438 PATENT

right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said ASSIGNEE, its successors and assigns, may be required or necessary more effectively to secure to and vest in said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications. Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

Date: NOVEMBER 20 2011 Witness; Lais <u>MFadolos</u> [signature] LAis <u>MFadolon</u> [printed name] <u>Olle Floor AOB</u> [address] children's Hasphal of Pittsbugh.

DAVID J. HACKAM

Kista Notary Public

COMMONWEALTH OF PENNSYLVANIA Notarial Seel Krietin Zagenczyk, Motary Public City of Pittsburgh, Allegheny County My Commission Expires Aug. 23, 2015 MSMILL, PENNSYLVANIA Association of Norakites

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