

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12520441
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NAME OF SUBMITTER:	SHANNON MURPHY
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DATE SIGNED:	05/06/2016
Total Attachments: 3	
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ASSIGNMENT

We, **Thomson Reuters (Scientific) LLC**, a corporation, organized and existing under the laws of the State of **Delaware** and having an office and place of business at **1500 Spring Garden Street, 4th Floor, Philadelphia, PA, 19130, United States of America** (hereinafter referred to as "Assignor"), has acquired the entire right, priority right, title and interest in to certain new and useful inventions and improvements described in an application for Letters Patent of the United States entitled **NOVEL METHODS FOR FUNCTIONAL ANALYSIS OF HIGH-THROUGHPUT EXPERIMENTAL DATA AND GENE GROUPS IDENTIFIED THEREFROM**, the application being identifiable in the United States Patent and Trademark Office by Application No. **12/520,441** filed **May 13, 2010**.

AND WHEREAS, **Thomson Reuters Global Resources**, a company organized and existing under and by virtue of the laws of the Country of **Ireland**, and having an office and place of business at **Neuhofstrasse 1, 6340 Baar, Switzerland** (hereinafter "Assignee"), desires to acquire the entire right, title and interest in and to the inventions, the application, and in any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid

inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.



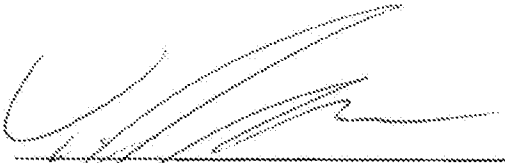
Authorized Signature

DATE: April 1, 2016

Name:

Title:

Thomson Reuters (Scientific) LLC



Authorized Signature

DATE: April 4, 2016

Name: Thomas Kretschmer

Title: IP Counsel

Thomson Reuters Global Resources