

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE				
CONVEYING PARTY DATA					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Wisconsin Alumni Research Foundation</td> <td>01/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	Wisconsin Alumni Research Foundation	01/11/2013
Name	Execution Date				
Wisconsin Alumni Research Foundation	01/11/2013				
RECEIVING PARTY DATA					
Name:	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government				
Street Address:	NIH Division of Extramural Inventions and Technology Resources (DEITR)				
Internal Address:	6705 Rockledge Drive, Suite 310, MSC 7980				
City:	Bethesda				
State/Country:	MARYLAND				
Postal Code:	20892-7980				
PROPERTY NUMBERS Total: 1					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13414061</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13414061
Property Type	Number				
Application Number:	13414061				
CORRESPONDENCE DATA					
Fax Number:	3014800272				
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>					
Email:	edison@nih.gov				
Correspondent Name:	Director, DEITR				
Address Line 1:	NIH, 6705 Rockledge Drive, Suite 310				
Address Line 2:	MSC 7980				
Address Line 4:	Bethesda, MARYLAND 20892-7980				
NAME OF SUBMITTER:	Director, DEITR, NIH				
Total Attachments: 1 source=13414061,LAB,01-14-2013#page1.tif					

# License to the United States Government

Sign and Fax this to (301) 480-0272

Invention Title: DETECTION OF RATE CHANGES IN SYSTEMATIC OSCILLATIONS OF METABOLIC PATHWAYS BY MONITORING CARBON ISOTOPE RATIO

Inventor(s): Hamid Eghbalnia, Mark Cook, Warren Porter, Dan Butz

U.S. Filing/Issue Date: March 7, 2012

Patent or Application Serial No.: 13/414061

Grant/Contract Number(s): National Institutes of Health LM008992

Foreign Applications filed/intended in (countries):

The invention identified above is a Subject Invention under **35 U.S.C. 200, et seq.**, and the Standard Patent Rights clause at **37 CFR 401.14, FAR 52.227-11** or **FAR 52.227-12** (if applicable) which are included among the terms of the above identified grant or contract award from the United State Government. This document is confirmatory of:

1. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and

2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 11 January, 2013,

By Michael Falk

(Name of Grantee/Contractor Official)



(Signature)

Title General Counsel

For Wisconsin Alumni Research Foundation

(Grantee/Contractor Organization)

At 614 Walnut St, Madison, WI 53726

(Business Address)

WARF Ref: P09010US - Eghbalnia