## Accepted Manuscript

Comparison of direct <sup>13</sup>C and indirect <sup>1</sup>H-[<sup>13</sup>C] MR detection methods for the study of dynamic metabolic turnover in the human brain

Hao Chen, Henk M. De Feyter, Peter B. Brown, Douglas L. Rothman, Shuhui Cai, Robin A. de Graaf

PII:	S1090-7807(17)30201-X
DOI:	http://dx.doi.org/10.1016/j.jmr.2017.08.004
Reference:	YJMRE 6143
To appear in:	Journal of Magnetic Resonance
Received Date:	16 June 2017
Revised Date:	2 August 2017
Accepted Date:	10 August 2017

6.04 step. Her
JMR
Journal of Magnetic Resonance
$\begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
Automotive a www.sourcedired.com Science/Direct

Please cite this article as: H. Chen, H.M. De Feyter, P.B. Brown, D.L. Rothman, S. Cai, R.A. de Graaf, Comparison of direct <sup>13</sup>C and indirect <sup>1</sup>H-[<sup>13</sup>C] MR detection methods for the study of dynamic metabolic turnover in the human brain, *Journal of Magnetic Resonance* (2017), doi: http://dx.doi.org/10.1016/j.jmr.2017.08.004

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## **ACCEPTED MANUSCRIPT**

Comparison of direct <sup>13</sup>C and indirect <sup>1</sup>H-[<sup>13</sup>C] MR detection methods

for the study of dynamic metabolic turnover in the human brain

Hao Chen <sup>1,2</sup>, Henk M. De Feyter <sup>1</sup>, Peter B. Brown <sup>1</sup>, Douglas L. Rothman <sup>1</sup>, Shuhui Cai <sup>2</sup>, Robin A. de Graaf <sup>1</sup>

> <sup>1</sup> Magnetic Resonance Research Center Department of Radiology and Biomedical Imaging Yale University, School of Medicine, New Haven, CT, USA <sup>2</sup> Department of Electronic Science Xiamen University, Xiamen, Fujian, China

Address correspondence to: Robin A. de Graaf, Ph.D. Magnetic Resonance Research Center Department of Radiology and Biomedical Imaging Yale University School of Medicine 300 Cedar Street P.O. Box 208043 New Haven, CT 06520-8043, USA Tel: (203) 785-6203 Fax: (203) 785-6643 E-mail: robin.degraaf@yale.edu

Running title: Comparison of direct and indirect <sup>13</sup>C MR detection on human brain Word count: 7,609

Download English Version:

## https://daneshyari.com/en/article/5404502

Download Persian Version:

https://daneshyari.com/article/5404502

Daneshyari.com