

## Accepted Manuscript

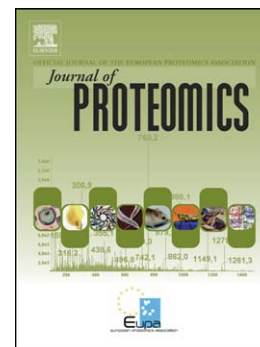
Proteomics identifies molecular networks affected by tetradecylthioacetic acid and fish oil supplemented diets

Krzysztof Wrzesinski, Ileana R. León, Katarzyna Kulej, Richard R. Sprenger, Bodil Bjørndal, Bjørn J. Christensen, Rolf K. Berge, Ole N. Jensen, Adelina Rogowska-Wrzesinska

PII: S1874-3919(13)00174-7  
DOI: doi: [10.1016/j.jprot.2013.03.027](https://doi.org/10.1016/j.jprot.2013.03.027)  
Reference: JPROT 1370

To appear in: *Journal of Proteomics*

Received date: 26 October 2012  
Accepted date: 11 March 2013



Please cite this article as: Wrzesinski Krzysztof, León Ileana R., Kulej Katarzyna, Sprenger Richard R., Bjørndal Bodil, Christensen Bjørn J., Berge Rolf K., Jensen Ole N., Rogowska-Wrzesinska Adelina, Proteomics identifies molecular networks affected by tetradecylthioacetic acid and fish oil supplemented diets, *Journal of Proteomics* (2013), doi: [10.1016/j.jprot.2013.03.027](https://doi.org/10.1016/j.jprot.2013.03.027)

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.

## Proteomics identifies molecular networks affected by tetradecylthioacetic acid and fish oil supplemented diets

Krzysztof Wrzesinski<sup>a</sup>, Ileana R. León<sup>a</sup>, Katarzyna Kulej<sup>a</sup>, Richard R. Sprenger<sup>a</sup>, Bodil Bjørndal<sup>b</sup>, Bjørn J. Christensen<sup>d,e</sup>, Rolf K. Berge<sup>b,c</sup>, Ole N. Jensen<sup>a</sup>, Adelina Rogowska-Wrzesinska<sup>a,\*</sup>

<sup>a</sup>Department of Biochemistry and Molecular Biology, University of Southern Denmark, Odense, Denmark.

<sup>b</sup>Institute of Medicine, University of Bergen, Bergen, Norway.

<sup>c</sup>Department of Heart Disease, Haukeland University Hospital, Bergen, Norway.

<sup>d</sup>Department of Surgical Sciences, University of Bergen, Bergen, Norway.

<sup>e</sup>Department of Gastrointestinal and Acute Surgery, Haukeland University Hospital, Bergen, Norway.

\* Corresponding author: Adelina Rogowska-Wrzesinska, Protein Research Group, Department of Biochemistry and Molecular Biology, University of Southern Denmark, Campusvej 55, 5230 Odense M, Denmark. E-mail address: adelinar@bmb.sdu.dk, phone no. (+45) 6550 2351, fax no. 65932467.

**KEYWORDS:** Proteomics; n-3 fatty acids; fish oil; tetradecylthioacetic acid (TTA); rat liver mitochondria; lipid metabolism.

**ABBREVIATIONS:** TTA, tetradecylthioacetic acid; MS, mass spectrometry;

**ABSTRACT:** Fish oil (FO) and tetradecylthioacetic acid (TTA) - a synthetic modified fatty acid have beneficial effects in regulating lipid metabolism. In order to dissect the mechanisms underlying the molecular action of those two fatty acids we have investigated the changes in mitochondrial protein expression in a long-term study (50

Download English Version:

<https://daneshyari.com/en/article/7638002>

Download Persian Version:

<https://daneshyari.com/article/7638002>

[Daneshyari.com](https://daneshyari.com)