

Accepted Manuscript

Dietary interesterified fat enriched with palmitic acid induces atherosclerosis by impairing macrophage cholesterol efflux and eliciting inflammation

Milessa Silva Afonso, Maria Silvia Ferrari Lavrador, Marcia Kiyomi Koike, Dennys Esper Cintra, Fabiana Dias Ferreira, Valeria Sutti Nunes, Gabriela Castilho, Luiz Antonio Gioielli, Renata de Paula Assis Bombo, Sergio Catanozi, Elia Garcia Caldini, Nilsa Regina Damaceno-Rodrigues, Marisa Passarelli, Edna Regina Nakandakare, Ana Maria Lottenberg

PII: S0955-2863(16)00036-X
DOI: doi: [10.1016/j.jnutbio.2016.01.005](https://doi.org/10.1016/j.jnutbio.2016.01.005)
Reference: JNB 7542

To appear in: *The Journal of Nutritional Biochemistry*

Received date: 21 June 2015
Revised date: 8 December 2015
Accepted date: 21 January 2016

Please cite this article as: Afonso Milessa Silva, Lavrador Maria Silvia Ferrari, Koike Marcia Kiyomi, Cintra Dennys Esper, Ferreira Fabiana Dias, Nunes Valeria Sutti, Castilho Gabriela, Gioielli Luiz Antonio, de Paula Assis Bombo Renata, Catanozi Sergio, Caldini Elia Garcia, Damaceno-Rodrigues Nilsa Regina, Passarelli Marisa, Nakandakare Edna Regina, Lottenberg Ana Maria, Dietary interesterified fat enriched with palmitic acid induces atherosclerosis by impairing macrophage cholesterol efflux and eliciting inflammation, *The Journal of Nutritional Biochemistry* (2016), doi: [10.1016/j.jnutbio.2016.01.005](https://doi.org/10.1016/j.jnutbio.2016.01.005)

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.



Dietary interesterified fat enriched with palmitic acid induces atherosclerosis by impairing macrophage cholesterol efflux and eliciting inflammation

Milessa Silva Afonso^{1,a}, Maria Silvia Ferrari Lavrador^{1,a}, Marcia Kiyomi Koike², Dennys Esper Cintra³, Fabiana Dias Ferreira¹, Valeria Sutti Nunes¹, Gabriela Castilho¹, Luiz Antonio Gioielli⁴, Renata de Paula Assis Bombo¹, Sergio Catanozi¹, Elia Garcia Caldini⁵, Nilsa Regina Damaceno-Rodrigues⁵, Marisa Passarelli¹, Edna Regina Nakandakare¹, Ana Maria Lottenberg^{1,6,a}

¹Lipids Laboratory (LIM10), Faculty of Medical Sciences of the University of Sao Paulo, São Paulo, Brazil.

Milessa da Silva Afonso: milessafonso@gmail.com

Maria Silvia Ferrari Lavrador: mariasilviaferrari@yahoo.com.br

Fabiana Dias Ferreira: fabianaferreira1@hotmail.com

Valeria Sutti Nunes: valeriasutti@gmail.com

Gabriela Castilho: ga.castilho@gmail.com

Renata de Paula Assis Bombo: rebombo@terra.com.br

Sergio Catanozi: catanozi@usp.br

Marisa Passarelli: mpassere@usp.br

Edna Regina Nakandakare: enakonda@usp.br

²Emergency Care Research Unit Laboratory (LIM51), Faculty of Medical Sciences of the University of Sao Paulo, São Paulo, Brazil.

Marcio Kiyomi Koike: mkoike2011@gmail.com

³Laboratory of Nutritional Genomics (LabGeN), School of Applied Science, University of Campinas (UNICAMP), Limeira, São Paulo, Brazil.

Dennys Esper Cintra: dcintra@yahoo.com

⁴Department of Biochemical and Pharmaceutical Technology, Faculty of Pharmaceutical Sciences, University of Sao Paulo, São Paulo, Brazil.

Luiz Antonio Gioielli: lagio@usp.br

⁵Laboratory of Cell Biology (LIM59), Department of Pathology, Faculty of Medical Sciences of the University of Sao Paulo, São Paulo, Brazil.

Nilsa Regina Damaceno-Rodrigues: nilsa@usp.br

Elia Garcia Caldini: elia@usp.br

⁶Albert Einstein Faculty of Health Sciences, São Paulo, Brazil.

Ana Maria Lottenberg: ana.lottenberg@hc.fm.usp.br

*Correspondence: Ana Maria Lottenberg, email: ana.lottenberg@hc.fm.usp.br, Phone/fax +55 11 30617263; Faculty of Medical Sciences of the University of Sao Paulo - Lipids Laboratory (LIM- 10), Av Dr Arnaldo, 455, 3rd floor, room 3305; Zip code: 01246-903, São Paulo, SP. Brazil.

All authors reviewed the final manuscript, and none of the authors had a financial or personal conflict of interest.

Running title: Dietary interesterified fat induces atherosclerosis by impairing macrophage cholesterol efflux and eliciting inflammation

Keywords: atherosclerosis; interesterified fat, trans fat; diet; lipoprotein metabolism; mice.

Download English Version:

<https://daneshyari.com/en/article/8336604>

Download Persian Version:

<https://daneshyari.com/article/8336604>

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