

CURRICULUM VITAE

DR. JARLEI FIAMONCINI

Personal information

Date, place of birth: Oct 22nd 1983 in Rodeio SC, Brazil

Nationality: Brazilian

Marital status: Unmarried

Current position

06/2016 - present French National Institute of Agriculture Research - INRA
Human Nutrition Unit – Research Center Auvergne Rhône-Alpes

Postdoctoral Scientist

- Research interests**
- 1 - Hepatic lipid metabolism and its role on the development of diabetes and insulin resistance. Focused on understanding dietary and pharmacological modulation of fatty acid oxidation.
 - 2 – Bile acid metabolism and their function as signaling molecules, regulating energy metabolism.
 - 3 – Fatty acid metabolism and the role of peroxisomes in fatty acid oxidation.
 - 4 - Changes in intermediate metabolism during the transition from fasting to post-prandial state.

Education

02/2006 – 05/2011 Universidade de São Paulo, São Paulo Brazil

PhD in Human Physiology

Thesis: Effects of diets with different contents of n-3 polyunsaturated fatty acids on energetic metabolism – modulation of peroxisomes function

Project funded by São Paulo state science agency, developed at the University of São Paulo and at the Garvan Medical Institute in Sydney Australia

07/2001 – 12/2005 Universidade do Vale do Itajaí, Itajaí Brazil

Bachelor in Biological Sciences – emphasis in Biotechnology

Thesis: Fatty acid metabolism in rats treated with different sources and concentrations of lipids

Professional path

- 01/2016 – present Institut National de la Recherche Agronomique - INRA, Clermont Ferrand, France
Human Nutrition Unit – Research Center Auvergne Rhône-Alpes
Post doc fellow
Development of database/chemical library for food compounds and their metabolites. Discovery of food compounds metabolites using *in silico* predictions and high-resolution LC-MS analysis
- 01/2014 – 05/2016 Technische Universität München - TUM, Freising Germany
Molecular nutrition unit - ZIEL Institute for Food & Health
Post doc fellow
Coordinates a work package within the Nutritech project. Metabolomics analyses in search of markers of phenotypic flexibility in healthy volunteers.
- 01/2012 – 12/2012 Technische Universität München, Freising Germany
Molecular Nutrition Unit - ZIEL Institute for Food & Health
Visiting scientist - funded by São Paulo state Agency for Science
Research project: Involvement of acetate and bile acids on the prevention of glucose intolerance mediated by n-3 PUFA in mice.
- 05/2011 – 12/2013 Universidade de São Paulo, São Paulo Brazil
Department of Physiology and Biophysics – Institute of Biomedical Sciences
Post doc fellow - funded by São Paulo state Agency for Science
Research project: Hepatic peroxisomal function and prevention of diabetes and glucose intolerance in mice.
- 04/2009 – 04/2010 Garvan Institute of Medical Research, Sydney Australia
Diabetes Department - Prof. Dr. Gregory J. Cooney
Internship within PhD project - funded by Brazilian science agency (CAPES).
- 02/2006 – 05/2011 Universidade de São Paulo, São Paulo Brazil
Department of Physiology and Biophysics – Institute of Biomedical Sciences
PhD student - funded by São Paulo state Agency for Science
Research project: Modulation of rat muscle responses to insulin by n-3 PUFA.

Professional skills

Languages	<p>Portuguese: native language. English: fluent in oral and written expression. German, Italian, Spanish, French: intermediate in written and oral communication</p>
Work experience	<p>In silico predictions of food compounds metabolism</p> <p>Method development and routine work in LC-MS/MS platforms and metabolomics analysis. Experience with acylcarnitine and bile acid analysis.</p> <p>Analysis of fatty acids using gas chromatography.</p> <p><i>In vivo</i> studies with rats and mice. OGTT, ITT, PTT. Administration of drugs, dietary studies and assessment of energy metabolism.</p> <p><i>Ex vivo</i> studies of muscle and liver metabolism – preparation of isolated muscle and tissue homogenates to assess glucose and fatty acid metabolism.</p> <p><i>Experience in routine techniques in molecular biology and biochemistry – Western blotting, PCR, enzyme activity assays, etc.</i></p> <p>Project management – coordinating the activities of work package within the Nutritech project – a study involving a lifestyle intervention and dietary challenges with humans.</p> <p>Preparation of scientific reports and presentations in scientific conferences</p>

Academic Records

Jarlei Fiamoncini has co-authored in total 22 scientific articles published in peer-reviewed journals, more than 40 abstracts in scientific conferences and 4 book chapters (2 in press). Below is a summary of the most relevant scientific production. Other publications can be found on Research Gate: https://www.researchgate.net/profile/Jarlei_Fiamoncini2

2016 **Fiamoncini J**, Curi R, Daniel H. Metabolism of bile acids in the post-prandial state. *Essays in Biochemistry*. 2016 Dec.

2015 **Fiamoncini J**, Lima TM, Hirabara SM, Curi R. Medium-chain dicarboxylic acylcarnitines as markers of n-3 PUFA-induced peroxisomal oxidation of fatty acids. *Molecular Nutrition and Food Research*. 2015 Aug.

Fiamoncini J, Frost G, Scheundel R, Daniel H. Gender Differences in Bile Acid Kinetics After Dietary Challenges. *Experimental Biology 2015. Boston USA*. 2015 Mar.

2014 Romanatto T, **Fiamoncini J**, Wang B, Curi R, Kang JX.

Elevated tissue omega-3 fatty acid status prevents age-related glucose intolerance in fat-1 transgenic mice. *Biochimica & Biophysica Acta*. 2014 Feb.

Fiamoncini J, Daniel H, Curi R. Dietary n-3 polyunsaturated fatty acids and a peroxisomal metabolite signature *11th Congress of the International Society for the Study of Fatty Acids and Lipids. Stockholm Sweden*. 2014 Jun.

2013 **Fiamoncini J**, Turner N, Hirabara, Curi R. Enhanced peroxisomal β -oxidation is associated with prevention of obesity and glucose intolerance by fish oil-enriched diets. *Obesity*. 2013 Jun.

Fiamoncini J, Lima TM, Festuccia W, Curi R. Fish Oil Based Hyperlipidic Diet Reduces Gluconeogenesis and Lipogenesis in the Liver of Mice *73rd Scientific Sessions of the American Diabetes Association. Chicago USA*. 2013 Jun.

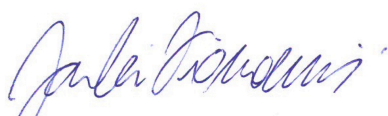
Awards

Henry Nestlé Award. 3rd place. São Paulo Brazil. 2014.

ASBMB Graduate/Postdoctoral Travel Award Program, American Society of Biochemistry and Molecular Biology. San Diego, USA. 2008

SBEM research award, Brazilian Society of Endocrinology and Metabology. Águas de Lindóia, Brazil. 2007.

Academic outstanding from Universidade do Vale do Itajaí, due to academic performance during undergraduated studies. Itajaí, Brazil. 2005.



Dr. Jarlei Fiamoncini

Clermont Ferrand, February 2017.