

Curriculum Vitae



Personal information

First name / Family name	Jarlei Fiamoncini
Address(es)	
Telephone	
Mobile	
E-mail	jarleifiamoncini@gmail.com
Nationality	Brazilian
Date of birth	
Gender	male

Personal statement and statement of intent	<p>During my undergraduate studies and PhD I investigated the effects of n-3 PUFA in lipid metabolism and glycemic homesotasis, aiming to find the mechanisms underlying the protective effects of these fatty acids against diabetes and obesity.</p> <p>During my first post-doc experience I was investigating the role of peroxisomal fatty acid oxidation in the development of diabetes and obesity and acquired experience with investigation of intermediate metabolism using mass spectrometry tools. In my most recent post-doc I study metabolic alterations during the transition from fasting to the post-prandial state in humans using different platforms of mass spectrometry.</p> <p>The common feature of all different projects I took part is that they involve lipid metabolism and glycemic/energetic homeostasis. In these studies I employed different models (mouse, rats, humans and <i>ex-vivo</i> tissue preparations) and accumulated good experience on the development of novel assays to study physiological and biochemical processes.</p> <p>My intention is to keep on learning new methods to broaden my knowledge in the field of metabolomics, which I consider fundamental for the advances in physiology and nutrition sciences. The <i>AgreenSkills fellowship</i> would allow me to join the group of Dr. Claudine Manach, and develop skills in the field of non-targeted metabolomics, adding to the knowledge that I already have with targeted approaches and extending my knowledge to plant food bioactives their metabolism and health effects.</p>
---	---

Education and training

Location and dates	São Paulo, Brazil – 02/2006 – 04/2011
Title of qualification awarded	PhD in Human Physiology
Principal subjects/occupational skills covered	<p>During my PhD I studied the protective effects of fish oil and n3-PUFA against obesity and impairments of glucose homeostasis.</p> <p>Skills: studies with different animal models and <i>ex vivo</i> tissue preparations, experience with methods to assess energy metabolism and post-prandial responses in mice and rats.</p> <p>Obs: In Brazil it is possible (depending on academic records) to skip the masters degree and go directly to the PhD. This was my case and therefore I have no masters degree.</p>
Name of Institute	Institute of Biomedical Sciences – University of São Paulo

Location and dates	Sydney, Australia – 04/2009 – 04/2010
Title of qualification awarded	Internship during PhD studies
Principal subjects/occupational skills covered	<p>Assessment of glucose homeostasis and energy metabolism in animal models.</p> <p>Skills: indirect calorimetry, diet-induced obesity, gene knock-down <i>in vivo</i> using electroporation in skeletal muscle, oxygen consumption measurements using Clark electrode, western blotting and enzyme activity measurements.</p>
Name of Institute	Garvan Institute of Medical Research

Work experience

Location and dates	Freising, Germany. 01/2014 - present
Occupation or position held	Post-doc fellow
Main activities and responsibilities	<p>Method development and sample preparation for mass spectrometry analyses.</p> <p>Coordination of activities of the work group within a Work Package in a EU funded project. These activities included the analysis of more than 3000 samples of plasma and human tissue biopsies in different platforms of mass spectrometry and the interpretation of the results.</p> <p>Skills: analysis of bile acids, acylcarnitines, phospholipids and aminoacids usign LC-MS/MS</p>
Name of employer	Technical University of Munich

Location and dates	São Paulo, Brazil. 05/2011 – 12/2013
Occupation or position held	Post-doc fellow
Main activities and responsibilities	<p>Investigation of the effects of peroxisomal proliferation on lipid metabolism and implications on diabetes and obesity development.</p> <p>Skills: studies in different mouse models, hepatocyte isolation, diet-induced obesity.</p>
Name of employer	University of São Paulo

Languages

Mother tongue(s)	Portuguese				
	Understanding		Speaking		Writing
Other language(s)	Listening	Reading	Spoken interaction	Spoken production	
European level (*)					
english	C2	C2	C2	C2	C2
german	B2	B2	B1	B1	B1
italian	B2	B2	B2	B2	B1
spanish	B2	B2	B1	B1	B1
<p>(*) Common European Framework of Reference for Languages http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr</p>					

Academic Record

<p>Publications</p>	<p>Accepted, in press and published articles / papers:</p> <ol style="list-style-type: none"> 1. Fiamoncini J, Lima TM, Hirabara SM, Ecker J, Gorjão R, Romanatto T, ELolimy A, Worsch S, Laumen H, Bader B, Daniel H, Curi R. 2015. <i>Medium-chain dicarboxylic acylcarnitines as markers of n-3 PUFA-induced peroxisomal oxidation of fatty acids</i>. Molecular Nutrition and Food Research. Aug. 2. Müller VM, Zietek T, Rohm F, Fiamoncini J, Lagkouvardos I, Haller D, Clavel T, Daniel H. 2015. <i>Gut barrier impairment by high-fat diet in mice depends on housing conditions</i>. Molecular Nutrition & Food Research, December. DOI: 10.1002/mnfr.20150077. 3. Ferreira DF, Fiamoncini J, Prist IH, Ariga SK, Souza HP, Lima TM. 2015. <i>Novel role of TLR4 in NAFLD development: Modulation of metabolic enzymes expression</i>. Biochimica et Biophysica Acta 1851(10). July. DOI: 10.1016/j.bbalip.2015.07.002 4. Romanatto T, Fiamoncini J, Wang B, Curi R, Kang JX. 2014 Elevated tissue omega-3 fatty acid status prevents age-related glucose intolerance in fat-1 transgenic mice. Biochimica & Biophysica Acta. Feb. 5. Dahlhoff C, Worsch S, Sailer M, Hummel BA, Fiamoncini J, Uebel K, Obeid R, Scherling C, Geisel J, Bader BL, Daniel H. 2014. <i>Methyl-donor supplementation in obese mice prevents the progression of NAFLD, activates AMPK and decreases acyl-carnitine levels</i>. Molecular Metabolism 3(5). DOI: 10.1016/j.molmet.2014.04.010. 6. Fiamoncini J, Turner N, Hirabara SM, Salgado TM, Marçal AC, Leslie S, da Silva SM, Deschamps FC, Luz J, Cooney GJ, Curi R. 2013 <i>Enhanced peroxisomal β-oxidation is associated with prevention of obesity and glucose intolerance by fish oil-enriched diets</i>. Obesity. Jun. doi: 10.1002/oby.20132. <p>These are the most relevant publications in the last 3 years. In total, I have co-authored 21 articles in peer-reviewed journals. The complete record of my publications can be found at: https://www.researchgate.net/profile/Jarlei_Fiamoncini2</p>
<p>Presentations as invited speaker</p>	<p>Are Acylcarnitines in Plasma Markers of Phenotypic Flexibility? 12th European Nutrition Conference - FENS 2015. October 2015. Berlin, Germany.</p> <p>Carnitine metabolism identifies subtle effects in metabolic health. NutriTech Final Symposium, Phenotypic Flexibility. June 2016. Lisbon, Portugal.</p>
<p>Authored books or book chapter(s)</p>	<p>Fiamoncini J, Romanatto T, Hirabara SM, Curi R. <i>Pathophysiology of Metabolic Syndrome. Part 1 – Influence of Insulin Resistance</i>. In: Isaias</p>

	<p>Dichi, Andréa Name Colado Simão (Org.). Nutritional Intervention in Metabolic Syndrome. CRC Press, 2016, p. 17-22.</p> <p>Fiamoncini J. Lipid Analysis In: Anna Karenina Azevedo-Martins, Maria Fernanda Cury-Boaventura. (Org). Lipids an cell function – a journey into the world of lipids to understand its function in cell. 1ed.Curitiba: CRV, 2014, v. 1, p. 15-20.</p> <p>Fiamoncini J. Lipidômica: Avanço no estudo dos lipídios In: Sandro Massao Hirabara et a. (Org). Ácidos graxos na saúde e na doença – influência da genética, nutrição, exercício físico e esporte. Curitiba: CRV, 2015, p. 341-350.</p>
<p>Awards and prizes</p>	<p>Henry Nestlé Award. 3rd place. São Paulo Brazil. 2014.</p> <p>ASBMB Graduate/Postdoctoral Travel Award Program, American Society of Biochemistry and Molecular Biology. San Diego, USA. 2008</p> <p>Academic outstanding from Universidade do Vale do Itajaí, due to academic performance during undergraduated studies. Itajaí, Brazil. 2005.</p>

Collaboration and Networking

<p>Participation in collaborative projects funded by competitive programmes</p>	<p>Metabolomic study of orange juice consumption: biomarkers identification. São Paulo Research Foundation – São Paulo Brazil. Leader: Franco Maria Lajolo. 01/05/2014 a 30/04/2016.</p> <p>Acyl-carnitines as markers of intermediate metabolism in morbidly obese individuals undergoing a clinical treatment for weight loss. São Paulo Research Foundation – São Paulo Brazil. Leader: Thais Martins de Lima. 01/11/2014 – 01/11/2016.</p> <p>Characterization of lipid markers involved in the genesis of inflammation and insulin resistance in animal models of type 2 diabetes: effect of n-3PUFA. CNPq - 457340/2013-4 – São Paulo, Brazil. Leader: Rui Curi. 12/2013 a 10/2016.</p> <p>Characterization of nutritional state and fitness in overweight elderly: identification of strategies for health promotion and disease prevention. CNPq - 407849/2013-0 – São Paulo, Brazil. Leader: Sandro M. Hirabara. 01/2014 a 12/2016.</p> <p>Modulation of inflammation and insulin resistance by n-3 PUFA and palmitoleic acid. Leader: Joaquim Procopio de Araujo Filho. São Paulo Research Foundation – São Paulo, Brazil. 03/2011 a 02/2017.</p>
--	--



Scientific References

Full name	Prof Hannelore Daniel
Position	Professor at the chair of Nutrition Physiology
Institution	Technical University of Munich – Freising, Germany
Email address	hannelore.daniel@tum.de

Full name	Prof. Rui Curi
Position	Former director of the Institute of Biomedical Sciences
Institution	University of São Paulo – São Paulo, Brazil
Email address	curirui@gmail.com

How did you hear about AgreenSkills programmes?

	Dr. Claudine Manach suggested to submit an application.
--	---