

## Curriculum Abreviado

Prof. Fernando Pizarro Aguirre

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### Publicaciones últimos años

1. Andrews M, Briones L, Pizarro F, Arredondo M. Calcium and zinc decrease intracellular iron by decreasing transport during iron repletion in an in vitro model. *Eur J Nutr* 2018 (En prensa)
2. Briones L, Andrews M, Pizarro F, Arredondo-Olguín M. Expression of genes associated with inflammation and iron metabolism in 3T3-L1 cells induced with macrophages-conditioned medium, glucose and iron. *Biometals* 2018; En prensa). doi: 10.1007/s10534-018-0108-4.
3. Candia V, Rios-Castillo I, Carrera-Gil F, Vizcarra B, Olivares M, Pizarro F. Effect of different calcium salts on nonheme iron bioavailability. *J Trace Elem Med Biol* 2018;49:8-12
4. Churio O, Pizarro F, Valenzuela C. Preparation and characterization of iron-alginate beads with some types of iron used in supplementation and fortification strategies. *Food Hydrocoll* 2018;74:1-10
5. Jaramillo A, Molina P, Briones L, Flores S, Olivares M, Pizarro F. Pectin esterification degree in the bioavailability of non-heme iron in women. *Biol Trace Elem Res* 2018;181(1):38-43
6. Ulke MG, Mendoza de Arbo L, Sánchez S, Sanabria M, Insfrán P, Medina X, Báez C, Pizarro F. Aceptabilidad, consumo y tolerancia del complemento alimentario “leche enriquecida” en niños beneficiarios del Programa Alimentario Nutricional Integral. *Pediatr. (Asunción)* 2017; 44 (1):23-29
7. Weinborn V, Valenzuela C, Olivares M, Arredondo M, Weill R, Pizarro F. Prebiotics increase heme iron bioavailability and do not affect non-heme iron bioavailability in humans. *Food Funct* 2017;8 (5):1994-1999
8. Valenzuela C, Hernández V, Morales MS, Pizarro F. Heme iron release from alginate beads at in vitro simulated gastrointestinal conditions. *Biol Trace Elem Res* 2016;172(1):251-257
9. Olivares M, Figueroa C, Pizarro F. Acute copper and ascorbic acid supplementation inhibits non-heme iron absorption in humans. *Biol Trace Elem Res* 2016;172(2):315-219.
10. Pizarro F, Olivares M, Valenzuela C, Brito A, Weinborn V, Flores S, Arredondo M. The effect of proteins from animal source foods on heme iron bioavailability in human. *Food Chem* 2016; 196: 773-778
11. Pizarro F, Olivares M, Maciero E, Krasnoff G, Cócara N, Gaitan D. Iron absorption from two milk formulas fortified with iron sulfate stabilized with maltodextrin and citric acid. *Nutrients* 2015, 7, 8952-8959
12. Weinborn V, Pizarro F, Olivares M, Brito A, Arredondo M, Flores S, Valenzuela C. The effect of plant proteins derived from cereals and legumes on heme iron bioavailability. *Nutrients* 2015, 7, 8977–8986

13. Mujica MF, Brito A, López de Romaña D, Pizarro F, Olivares M. Body mass index, iron absorption and iron status in Chilean childbearing age women. *J Trace Elem Med Biol.* 2015;30:215-219
14. Mujica MF, Borja A, Pizarro F, Olivares M. Prevalencia de deficiencia y consumo de hierro, zinc y cobre en mujeres chilenas en edad fértil *Arch Latinoam Nutr* 2014; 64 (1):9-15
15. Valenzuela C, Hernández V, Morales MS, Pizarro F. Preparation and characterization of heme iron-alginate beads. *LWT Food Science and Technology* 2014;59:1283-1289
16. Cornejo K, Pizarro F, Atalah A, Galgani JE. Evaluación de la ingesta dietética y excreción urinaria de sodio y potasio en adultos. *Rev Med Chile* 2014; 142(6):687-695
17. Miranda M, Brito A, Olivares M, Pizarro F. Reducing Iron Deficiency Anemia in Bolivian School Children: calcium and iron combined vs iron supplementation alone. *Nutrition* 2014; 30 (7-8): 771-775
18. Ríos-Castillo I, Olivares M, Brito A, López de Romaña D, Pizarro F. One-month calcium supplementation does not affect iron bioavailability: A randomized controlled trial *Nutrition* 2014; 30(1):44-8.
19. Andrews M, Briones L, Jaramillo A, Pizarro F, Olivares M, Arredondo M. Effect of calcium, tannic acid, phytic acid and pectin over iron uptake in an in vitro Caco-2 cell model *Biol Trace Elem Res* 2014; 158(1):122-7.
20. Ríos-Castillo I, Brito A, Olivares M, López-de Romaña D, Pizarro F. Low prevalence of iron deficiency anemia between 1981 and 2010 in Chilean women of childbearing age. *Salud Publica Mex* 2013;55(5):478-83.
21. Andrews M, Briones L, Jaramillo A, Pizarro F, Olivares M, Arredondo M. Effect of calcium, tannic acid, phytic acid and pectin over iron uptake in an in vitro Caco-2 cell model. *Biol Trace Elem Res* 2014; 158(1):122-7
22. Ríos-Castillo I, Olivares M, Brito A, López de Romaña D, Pizarro F. One-month calcium supplementation does not affect iron bioavailability: A randomized controlled trial. *Nutrition* 2014;30(1):44-8
23. Ríos-Castillo I, Brito A, López de Romaña D, Olivares M, Pizarro F. Low prevalence of iron deficiency anemia between 1981 and 2010 in Chilean women of childbearing age: A multiple cross-sectional study. *Salud Pub Mex* 2013;55(5):478-483
24. Rojas-Sobarzo L, Olivares M, Brito A, Suazo M, Araya M, Pizarro F. Copper supplementation does not affect neither circulating lipids nor liver function in apparently healthy Chilean men. *Biol Trace Elem Res* 2013;156(1-3):1-4.
25. Valenzuela C, Olivares M, Brito A, Hamilton-West C, Pizarro F. Is a 40 % absorption of iron from a ferrous ascorbate reference dose appropriate to assess iron absorption independent of iron status? *Biol Trace Elem Res.* 2013; 155(3):322-326
26. Olivares M, Castro C, Pizarro F, López de Romaña D. Effect of tea on the inhibitory effect of zinc sulfate on iron absorption from low extraction wheat flour co-fortified with ferrous sulfate. *Biol Trace Elem Res* 2013;154(3):321-325
27. Olivares M, Pizarro F, López de Romaña D. Effect of zinc sulfate fortificant on iron absorption from low extraction wheat flour co-fortified with ferrous sulfate. *Biol Trace Elem Res* 2013;151(3):471-475

28. Pizarro F, Boccio J, Salgueiro M, Olivares M, Carmuega E, Weill R, Marque S, Frereux M, Noirt F. Bioavailability of stabilized ferrous gluconate with glycine in fresh cheese matrix: a novel iron compound for food fortification. *Biol Trace Elem Res.* 2013;151(3):441-445.

## **Proyectos**

Investigador Responsable

EFFECT OF HEPCIDIN VARIATIONS DURING THE PHASES OF THE MENSTRUAL CYCLE ON INTESTINAL IRON ABSORPTION

Programa: Enlace / Vicerrectoría de Investigación y Desarrollo (VID) de la Universidad de Chile, código proyecto: ENL007/17; 2017-2018

Institución responsable: Universidad de Chile / Instituto de Nutrición y Tecnología de los Alimentos (INTA)

Investigador Responsable

EFFECT OF COMBINED IRON, ZINC AND CALCIUM SUPPLEMENTATION ON IRON, ZINC AND CALCIUM STATUS IN ADOLESCENTS

Programa: Fondecyt / Fondecyt Regular 130090; 2013-2016

Institución responsable: Universidad de Chile / Instituto de Nutrición y Tecnología de los Alimentos (INTA)

Co-Investigador

TYING UP LOOSE ENDS ON THE EFFECTS OF IRON AND COPPER ON IRON ABSORPTION

Programa: Fondecyt / Fondecyt Regular 1130075; 2013-2015

Institución responsable: Universidad de Chile / Instituto de Nutrición y Tecnología de los Alimentos (INTA)

Co-Investigador

EFFECTS OF INFLAMMATORY PROCESSES ON THE COPPER CHAPERONE OF SUPER OXIDE DISMUTASE (CCS), A MARKER OF COPPER STATUS

Programa: Fondecyt / Fondecyt Regular 1110099 2011-2014

Institución responsable: Universidad de Chile / Instituto de Nutrición y Tecnología de los Alimentos (INTA)

Co-Investigador

EFFECTS OF DIFFERENT LEVELS OF ZINC FORTIFICANT ON IRON ABSORPTION OF FOODPRODUCTS COFORTIFIED WITH IRON AND ZINC.

Programa: Fondecyt / Fondecyt Regular 1100094; 2010-2013

Institución responsable: Universidad de Chile / Instituto de Nutrición y Tecnología de los Alimentos (INTA)