

Proyectos

2019-2021. Director of FONDEF IT18I10021 (CONICYT). “Empaquetamiento y puesta en marcha de Redoxcell, un servicio para evaluar el impacto antioxidante de matrices alimentarias en células vivas”

2017-2019. Scientific Coordinator FONDEQUIP EQM170092 (CONICYT). Titled: “Development of a core facility for the analysis of foods by incorporating physiological phenomena, such as digestion and fermentation, with Twinshime technology”

2017-2021. Associated Researcher at Center for Advanced Research in Foods for Healthiness in life cycle (ABCVital). Universidad de Chile.

2016-2018. Director of FONDEF IT15I10048 (CONICYT). “Redoxcell: a platform for evaluating the antioxidant impact in living cells”.

2014-2016. Director of FONDEF CA13I10013 (CONICYT). “Use of cells expressing a redox biosensor for evaluating the antioxidant capacity of molecules of nutritional and therapeutic interest”.

2012-2015 Principal Investigator in FONDECYT 1120201 (CONICYT) “Study of the regulatory axis XBP-1/FoXO1 in the redox homeostasis of endothelial cells and its repercussions on the net bioavailability of nitric oxide under physiopathological conditions”.

Publicaciones

2020, Antioxidants Feb14; 9(2): E155. “Biological redox impact of tocopherol isomers is mediated by fast cytosolic calcium increases in living Caco-2 cells”. Miltha Hidalgo, Vania Rodríguez, Christine Kreindl and Omar Porras. IF 4.5

2019, Journal of Cellular Physiology. 234 (10): 18571-18586. “Human umbilical artery endothelial cells from Large-for-Gestational-Age newborn have increased antioxidant efficiency and gene expression”. Carrasco-Wong, C. Hernández, C. Jara, O. Porras, P. Casanello. IF 3.92

2018, Redox Biology, Mar2; 16:199208, ISSN 2213-2317.” Insights into the HyPer biosensor as molecular tool for monitoring cellular antioxidant capacity”. Helen Hernández, Alejandra Parra, Nicolas Tobar, Jessica Molina, Violeta Kallens, Miltha Hidalgo, Diego Varela, Jorge Martínez, Omar Porras. Published, IF 7.79.

2018, Molecular and Cellular Endocrinology. Feb 5; 461:277-283, ISSN 03037207. “Mifepristone enhances insulin-stimulated Akt phosphorylation and glucose uptake in skeletal muscle cells”. Bernal-Sore I, Navarro-Marquez M, Osorio-Fuentealba C, Díaz-Castro F, Del Campo A, Donoso-Barraza C, Porras O, Lavandero S, Troncoso R. IF 3.87.

2017, Journal of Cell Biochemistry, Mar. 2017. doi: 10.1002/jcb.25739. “Real-Time H₂O₂ Measurements in Bone Marrow Mesenchymal Stem Cells (MSCs) Show Increased Antioxidant Capacity in Cells From Osteoporotic Women”. Román F, Urra C, Porras O, Pino AM, Rosen CJ, Rodríguez JP. IF 3.13.

2016, Journal of Cell Biochemistry. Jul 12. doi: 10.1002/jcb.25650. "Glucose Promotes a Pro-Oxidant and Pro-Inflammatory Stromal Microenvironment which Favors Motile Properties in Breast Tumor Cells". Kallens V, Tobar N, Molina J, Bidegain A, Smith PC, Porras O, Martínez J. IF 3.13.

2016, Journal of Cell Physiology. doi: 10.1002/jcp.25398. "Modulation of Mammary Stromal Cell Lactate Dynamics by Ambient Glucose and Epithelial Factors. Tobar N, Porras O, Smith PC, Barros LF, Martínez J. IF 3.9.