

Curriculum vitae

PERSONAL INFORMATION

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ACADEMIC INFORMATION

2011-2014 Postdoctoral position at Universidad de Concepción, Concepción, Chile.
2004-2010 PhD, Cellular and Molecular Biology, Universidad Austral de Chile, Valdivia, Chile.
1997-2003 University studies, Biochemistry career, Universidad Austral de Chile, Valdivia, Chile.

CURRENT PROJECT

Oct 2016-to date FONDECyT 11160854: "Phosphoenolpyruvate carboxykinase expression in pancreatic α -cells modulates glucagon secretion, contributing to hyperglucagonemia during diabetes"

STUDENTS

Aug 2018-Jul 2019 Ahilyn Escobar, Tecnología Médica, Universidad de Concepción.
Aug 2017-Jul 2018 Marianne Negrón, Tecnología Médica, Universidad de Concepción.

SCIENTIFIC ARTICLES (2015 to date)

Westermeier F, Holyoak T, Gatica R, Martínez F, Negrón M, Yáñez AJ, Nahmias D, Nualart F, Burbulis I, **Bertinat R (2020)**. Cytosolic phosphoenolpyruvate carboxykinase is expressed in α -cells from human and murine pancreas. *J Cell Physiol*. 235(1):166-175.

Westermeier F, Holyoak T, Asenjo JL, Gatica R, Nualart F, Burbulis I, **Bertinat R (2019)**. Gluconeogenic Enzymes in β -Cells: Pharmacological Targets for Improving Insulin Secretion. *Trends Endocrinol Metab*. 30(8):520-531.

Bertinat R, Westermeier F, Gatica R, Nualart F (2018). Sodium tungstate: is it a safe option for a chronic disease setting as diabetes? *J Cell Physiol*. 234(1):51-60.

Bertinat R, Westermeier F, Silva P, Gatica R, Oliveira JM, Nualart F, Gomis R, Yáñez AJ (2018). The anti-diabetic agent sodium tungstate induces abnormal glycogen accumulation in renal proximal tubules from diabetic IRS2 knockout mice. *J Diabetes Res*. 2018:5697970.

Salazar K, Martínez F, Pérez-Martín M, Cifuentes M, Trigueros L, Ferrada L, Espinoza F, Saldivia N, **Bertinat R**, Forman K, Oviedo MJ, López-Gambero AJ, Bonansco C, Bongarzone ER, Nualart F (2018) SVCT2 Expression and Function in Reactive Astrocytes Is a Common Event in Different Brain Pathologies. *Mol Neurobiol*. 55(7):5439-5452.

Bertinat R, Nualart F, Slebe JC, Yáñez AJ (2017) Sodium tungstate mimics insulin effect on nuclear translocation of FBPase in rat liver. *PostDoc Journal*. 5(3):1-6. doi: org/10.14304/SURYA.JPPR.V5N3.1.

Bertinat R, Westermeier F, Silva P, Shi J, Nualart F, Li X, Yáñez AJ (2017) Anti-diabetic agent sodium tungstate induces the secretion of pro- and anti-inflammatory cytokines by human kidney cells. *J Cell Physiol*. 232(2):355-362.

Silva-Álvarez C, Salazar K, Cisternas P, Martínez F, Liour S, Jara N, **Bertinat R**, Nualart F (2017) Apical polarization of SVCT2 in apical radial glial cells and progenitors during brain development. *Mol Neurobiol*. 54(7):5449-5467.

Forman K, Martínez F, Cifuentes M, **Bertinat R**, Salazar K, Nualart F (2017) Aging selectively modulates vitamin C transporter expression patterns in the kidney. *J Cell Physiol*. 232(9):2418-2426.

Bertinat R, Nualart F, Yáñez AJ (2016) SGLT2 inhibitors: glucotoxicity and tumorigenesis downstream the renal proximal tubule? *J Cell Physiol*. 231(8):1635-7.

Salazar K, Martínez M, Ulloa V, **Bertinat R**, Martínez M, Ramírez E, Jara N, Bongarzone ER, Nualart F (2016) SVCT2 overexpression in neuroblastoma cells induces cellular branching that is associated with ERK signaling. *Mol Neurobiol*. 53(10):6668-6679.

Bertinat R, Nualart F, Li X, Yáñez AJ, Gomis R (2015) Preclinical and Clinical Studies for Sodium Tungstate: Application in Humans. *J Clin Cell Immunol*. 6(1). pii: 285.

Bertinat R, Silva P, Mann E, Li X, Nualart F, Yáñez AJ (2015) In vivo sodium tungstate treatment prevents E-cadherin loss induced by diabetic serum in HK-2 cell line. *J Cell Physiol*. 230(10):2437-46.

Gatica R, **Bertinat R**, Silva P, Kairath P, Slebe F, Pardo F, Ramírez MJ, Slebe JC, Campistol JM, Nualart F, Caelles C, Yáñez AJ (2015) Over-expression of muscle glycogen synthase in human diabetic nephropathy. *Histochem Cell Biol*. 143(3):313-24. RG and RB contributed equally to this work.

SCIENTIFIC MEETINGS AND DIFFUSION (2018 to date)

Martínez F, Westermeier F, Gatica R, Negrón M, Soto C, Nualart F, **Bertinat R**. Cytosolic phosphoenolpyruvate carboxykinase is expressed in α -cells from human and murine pancreas. XXXIII Reunión Anual Sociedad de Biología Celular de Chile. Puerto Varas, Chile. 25-29 Noviembre 2019.

Escobar A, Martínez F, Westermeier F, Gatica R, Nualart F, **Bertinat R**. Mitochondrial phosphoenolpyruvate carboxykinase is expressed in PP- but not beta-cells from human pancreatic islets. LXIV Reunión Anual de la Sociedad Argentina de Investigación Clínica. Mar del Plata, Argentina. 13-16 Noviembre 2019.

Martínez F, Westermeier F, Gatica R, Nualart F, **Bertinat R**. The key gluconeogenic enzyme cytosolic phosphoenolpyruvate carboxykinase is expressed in pancreatic islets. LXIII Reunión Anual de la Sociedad Argentina de Investigación Clínica. Mar del Plata, Argentina. 14-17 Noviembre 2018.

Forman K, Martínez F, **Bertinat R**, Cifuentes M, Salazar K, Pajarito P, Nualart F. Vitamina C oxidada y sus acciones beneficiosas en el riñón envejecido. XV Congreso Argentino de Gerontología y Geriatría. Mar del Plata, Argentina. 23-25 Agosto 2018.

Bertinat R. El páncreas endocrino y la diabetes: Mucho más que la célula beta productora de insulina. Conferencias CMA: Biología celular con aplicaciones biomédicas. Universidad de Concepción, Concepción, Chile. 17-18 Abril 2018.