Dr. Luis Alberto Luévano Martínez
Associate Professor at the Molecular and Experimental Medicine Unit
National System of Researchers Level I

Contacto:
https://orcid.org/0000-0003-2598-7967

aluevano@.tec.mx

https://tec.mx/en/research/institute-obesity-research/molecular-and-experimental-medicine-unit

Academic Trajectory:

- Postdoctoral Researcher - Research Institute on Obesity (2021-2025)
- Postdoctoral Researcher - University of São Paulo, Brazil (2010-2019)
- PhD in Biochemical Sciences - IFC- UNAM (2005-2010)
- Bachelor's Degree in Chemical Engineering - Universidad Iberoamericana-CDMX (1999-2004)

Research areas:

- Mitochondrial metabolism
- Membrane biology
- Bioenergetics

Academic background:

Graduated in 2004 with a degree in Chemical Engineering from Universidad Iberoamericana in Mexico City. He pursued doctoral studies in Dr. Salvador Uribe's laboratory at UNAM, with a stay at the Center for Biological Research in Madrid (2010). From 2010 to 2017, he completed a postdoctoral fellowship in Dr. Alicia Kowaltowski's laboratory at the University of São Paulo and then joined Dr. Ariel Silber's laboratory. In 2021, he joined Dr. Gerardo García Rivas's laboratory as a postdoctoral researcher. He is currently an associate professor at the Experimental Medicine Unit at the Institute for Obesity Research. His research interests focus on studying the regulation of energy metabolism and lipid metabolism in various pathologies. In his research line, he studies how metabolic diseases such as obesity or diabetes deregulate the cellular and systemic iron metabolism, which can be a key factor in the progression of these diseases.

Selected publications:

1. Luévano-Martínez, LA, Méndez-Fernández, A, Rueda-Munguía, M, Bonilla-Ruelas, D, Brunck, M.E.G, García-Rivas, G. Glycerol metabolism is activated in both palmitic acid-stimulated and adipose tissue macrophages from a murine model of cardiometabolic heart failure. Journal of Physiology. In print. DOI 10.1113/JP287791
2. Luévano-Martínez LA, Pinto IFD, Yoshinaga MY, Miyamoto S. In yeast, cardiolipin unsaturation level plays a key role in mitochondrial function and inner membrane integrity. Biochim Biophys Acta Bioenerg. 2022 Oct 1;1863(7):148587. doi: 10.1016 j.bbabio.2022.148587.
3. Luévano-Martínez LA, Forni MF, Peloggia J, Watanabe IS, Kowaltowski AJ. Calorie restriction promotes cardiolipin biosynthesis and distribution between mitochondrial membranes. Mech Ageing Dev. 2017 Mar;162:9-17. doi: 10.1016/j.mad.2017.02.004.
4. Luévano-Martínez LA, Forni MF, dos Sntos VT, Souza-Pinto NC, Kowaltowski AJ. Cardiolipin is a key determinant for mtDNA stability and segregation during mitochondrial stress. Biochim Biophys Acta. 2015 Jun-Jul;1847(6-7):587-98. doi: 10.1016/j.bbabio.2015.03.007.