



## Luis Alberto Luévano Martínez

**National System of Researchers Level: 1**

# publications: 33/ #Citations: 792/ H index: 14

**Contact:**

✉ [aluevano@tec.mx](mailto:aluevano@tec.mx)

🌐 <https://orcid.org/0000-0003-2598-7967> C

### Degrees:

- Postdoctoral researcher- Institute for Obesity Research, Tecnológico de Monterrey (2021- to date)
- Postdoctoral researcher- Universidade de São Paulo, Brazil (2010-2019)
- PhD in Biochemistry- IFC- UNAM (2005-2010)
- Chemical Engineering- Universidad Iberoamericana-CDMX (1999-2004)

### Research areas:

- Mitochondrial metabolism
- Membrane biology
- Bioenergetics

### 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.bbabi.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. Amigo I, Menezes-Filho SL, Luévano-Martínez LA, Chausse B, Kowaltowski AJ. Caloric restriction increases brain mitochondrial calcium retention capacity and protects against excitotoxicity. *Aging Cell*. 2017 Feb;16(1):73-81. doi: 10.1111/accel.12527.
5. Luévano-Martínez LA, Forni MF, dos Santos 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.bbabi.2015.03.007.
6. Luévano-Martínez LA, Moyano E, de Lacoba MG, Rial E, Uribe-Carvajal S. Identification of the mitochondrial carrier that provides *Yarrowia lipolytica* with a fatty acid-induced and nucleotide-sensitive uncoupling protein-like activity. *Biochim Biophys Acta*. 2010 Jan;1797(1):81-8. doi: 10.1016/j.bbabi.2009.09.003.

**Awards and recognitions:**

- 2013 Best oral presentation at the Brazilian-CONESUL symposium. XLII Annual meeting from the Brazilian society of Biochemistry and Molecular Biology. Foz de Iguaçu, Brazil.
- 2010 International Travel Award. Biophysical Society. 54<sup>th</sup> Biophysical Society Annual Meeting. San Francisco, California, EUA.