MSc. Noemí García Ramírez
Research Professor at the Molecular and Experimental Medicine Unit
National System of Researchers Level II

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Degrees:

- Master of Science in Experimental Biology – National Autonomous University of Mexico
- Chemist-Pharmacobiologist – Michoacana University of San Nicolás de Hidalgo

Research areas:

- Biochemistry: Bioenergetics and Regulation of Metabolism
- Cellular Biology: Structure and organization of organelles
- Molecular Biology: Mitochondrial Genome

Selected publications:

1. Pérez-Treviño P., Nieblas B., López-Vaquera SR., García N. (2023) Analysis of the Mitochondrial density and Longitudinal Distribution in Rat live-skeletal muscle fibers by confocal microscopy. JoVe: Journal of Visualized Experiments, 202: e-65306.
2. Nieblas B., Pérez-Treviño P and García N. (2022) Role of mitochondria-associated endoplasmic reticulum membranes in insulin sensitivity, energy metabolism, and contraction of skeletal muscle. Front Mol Biosci, 9:959844 . doi: 10.3389/fmolb.2022.959844.
3. Garza-González S., Nieblas B., Solbes-Gochicoa M.M., Altamirano J., García N. (2022) Intermittent Fasting as Possible Treatment for Heart Failiure. Current Vascular Pharmacology (in press) DOI: 10.2174/1570161120666220610151915
4. Fragoso-Medina, J.A., López-Vaquera, S.R., Domínguez-Uscaga, A., Luna-Vital, D., García, N. (2023). Single anthocyanins effectiveness modulating inflammation markers in obesity: dosage and matrix composition analysis. 10, 1255518
5. Rivera-Álvarez I., Pérez-Treviño P., Chapoy-Villanueva H., Vela-Guajardo J.E., Nieblas B., Garza S., García-Rivas G., García N. (2020) A single session of physical activity restores the mitochondrial organization disrupted by obesity in skeletal muscle fibers. Life Sciences, 256:117965
6. Pérez-Treviño P., Velásquez M., García N. (2020) Mechanisms of mitochondrial DNA escape and its relationship with different metabolic diseases. Biochimica et Biophysica Acta-Molecular Basic of Disease. 1866(6): 165761. https://doi.org/10.1016/j.bbadis.2020.165761

Awards and recognitions:

- National Food Science and Technology Award, Mexican Academy of Science, 2019. México
- Member of the National System of Researchers, level 2. Mexico (2010 at present)

Current projects:

- Structural and biochemical changes in skeletal muscle in obesity and its comorbidities.
- Impact of caloric restriction, intermittent fasting, and exercise on heart failure with preserved ejection fraction.
- Role of the mitochondrial genome in regulating the innate immune response.