

Dr. Rocío Isabel Díaz de la Garza Leader of the Integrative Biology Unit National System of Researchers Level II

Contact:



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https://tec.mx/en/research/institute-obesity-research/integrative-biology-unit

Degrees:

- PhD Plant Molecular and Cellular Biology University of Florida (2006)
- MSc. Biotechnology Universidad Autónoma de Chihuahua (2001)
- Chemical Engineer Instituto Tecnológico de Ciudad Madero (1998)

Research areas:

- Interkingdom Folate and 1C metabolism
- Vitamin plant biofortification
- Obesity impact on vitamin B and 1 C metabolism

Selected publications:

- White adipose tissue: Distribution, molecular insights of impaired expandability, and its implication in 1. fatty liver disease. Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease, (2023)
- 2. The enigmatic aliphatic acetogenins and their correlations with lipids during seed germination and leaf development of Avocado (Persea americana Mill.). Frontiers in Plant Sciences (2022). doi.org/10.3389/fpls.2022.839326
- 3. Interkingdom Comparison of Threonine Metabolism for Stem Cell Maintenance in Plants and Animals. Frontiers in Cell and Developmental Biology. (2021) DOI=10.3389/fcell.2021.672545
- 4. High hydrostatic pressure treatments trigger de novo carotenoid biosynthesis in papaya fruit (Carica papaya cv. Maradol). Food Chemistry (2019)
- 5. MTHFD1 controls DNA methylation in Arabidopsis. Nature Communications (2016)
- 6. Metabolic engineering of folate and its precursors in Mexican common bean (Phaseolus vulgaris L.) Plant Biotechnology Journal (2016)

Awards and recognitions:

- 2019-National Prize in Food Technology by the Coca-Cola Company and the Mexican Academy of Sciences
- Tec-Woman Award in the Science and Technology category as recognition of the global research in March 2018

Current projects:

- Biomarkers, Subtyping, and Targets for Mexican Metabolic Health: Phase I Experimental Characterization & Data analyses
- Obesity impact on vitamin B & 1C metabolism: GTEx analyses