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

Contact:
https://www.linkedin.com/in/roc%C3%ADo-isabel-d%C3%ADaz-de-la-garza-b18725255/

ior-contact@servicios.tec.mx

https://tec.mx/en/research/institute-obesity-research/integrative-and-computational-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:

1. White adipose tissue: Distribution, molecular insights of impaired expandability, and its implication in 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