Dr. Flavio Fernando Contreras Torres
Researcher at the Experimental Medicine and Advanced Therapies Unit
National System of Researchers Level II

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https://tec.mx/en/research/institute-obesity-research/experimental-medicine-advanced-therapies-unit

Degrees:

- Doctoral – Universidad Nacional Autónoma de México (2007)
- BSc Chemistry – Universidad Central del Ecuador (2000)

Research areas:

- Nanomedicine and nanotoxicology
- X-ray diffraction
- Computer-aided drug design (CADD)

Selected publications:

1. A.C. Murrieta, D. Cavazos-Cavazos, C. Flores-Jauregui, P. Sepúlveda, M. Hesiquio, F.F. Contreras-Torres*. Characterization of hydrothermally synthesized ZnFe2O4 spinel ferrite: Insights into microstructure, inversion degree, and crystal evolution. Journal of Physics and Chemistry of Solids, 2023, 183, Art. No. 111659.
2. P. Santos-Aguilar, E. Vázquez-Garza, J. Bernal-Ramírez, L.Y. Vélez-Escamilla, O. Lozano, G. de J. García-Rivas, F.F. Contreras-Torres*. Synthesis and Characterization of Rutile TiO2 Nanoparticles for the Toxicological Effect on the H9c2 Cell Line from Rats. ACS Omega, 2023, 8 (21), 19024-19036.
3. F.F. Contreras-Torres*, D. Salas-Treviño, A. Soto-Dominguez, G. de J. García-Rivas. Carbon Nanotubes in Tumor-Targeted Chemotherapeutic Formulations: A Review of Opportunities and Challenges. ACS Applied Nano Materials, 2022, 5(7), pp. 8649–8679.
4. F.F. Contreras-Torres*, A. Rodríguez-Galván, C.E. Guerrero-Beltrán, E. Martinez-Lorán, E. Vázquez-Garza, N. Ornelas-Soto, G. García-García. “Differential citotoxicity and internalization of graphene family nanomaterials in myocardial cells”. Materials Science and Engineering C. 2017, 73, 633-642.

Awards and recognitions:

- Member of the American Chemical Society (USA)
- Member of the International Union of Crystallography (UK)
- Member of the Mexican Society of Biochemistry (MX)

Current projects:

- In Silico Screening and Bacterial Production of Small Molecules and Peptides
- CADD for MCU Modulators in Heart Failure
- Glycaemia and Heavy Metal Biomarkers in Gestational Diabesity