



Omar Lozano García, PhD

Professor Postdoc

Research Areas:

- Nanomedicine
- Nano-bio-interactions
- Nanosafety and nanotoxicology
- Cardiac bioenergetics

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Omar Lozano obtained his Bachelor's in Science with honors in Physics Engineering at Tecnológico de Monterrey in 2004. In 2006 he got his M.Sc. degree in Physics from the University of Houston, where he also got his Ph.D. in Physics in 2009. In 2015 he got his MBA from University of Namur. He was a Postdoctoral Researcher at University of Namur from 2010-2015, and currently is a senior Professor Postdoc at Tecnológico de Monterrey.

Omar Lozano has published 26 scientific articles (h-index: 8), and has participated in more than 40 national and international conferences. His current research is focused on: 1) the development of efficient transport nanosystems for cardiovascular applications, 2) their use to transport therapeutic and diagnostic compounds, 3) nano-bio-interactions and nanosafety/nanotoxicology in cardiovascular applications. He is co-founder of nano4heart, a spin-off from Tecnológico de Monterrey aimed to accelerate the development of the next generation of cardiovascular drugs.

Dr. Lozano is a member of the Thematic Network of Nanoscience, Nanotechnology, and the Mexican Biochemistry Society, and the National Research Council (Level 1). He has received the scientific career recognition of Chargé de recherche (Belgium, 2014), was the 2nd winner at Inc Monterrey Prize for Health Entrepreneurship (Mexico, 2016), and the Research Fellowship at National Sun YatSen University (Taiwan, 2008-2009).

Most recent publications:

1. 2016; Protein corona acts as a protective shield against Fe₃O₄-PEG inflammation and ROS-induced toxicity in human macrophages DOI: 10.1016/j.toxtlet.2015.10.018, V. Escamilla-Rivera, M Uribe-Ramírez, S. González-Pozos, **O. Lozano**, S.Lucas, A. De Vizcaya-Ruiz, Toxicology Letters Vol.240, Pag.172-184, Revistas Indizadas.

2. Physicochemical and toxicological evaluation of silica nanoparticles suitable for food and consumer products collected by following the EC recommendation DOI:10.1007/s00216-015-9101-8, C Contado, J Mejia, **O Lozano**, JP Piret, E Dumortier, O Toussaint, S Lucas, Analytical and Bioanalytical Chemistry, Vol.408, Pag.271-286, Revistas Indizadas.

3. 2015; WHAT IS THE IMPACT OF SILICON CARBIDE NANOPARTICLES TO THE MINERAL COMPOSITION OF RAT LUNGS? A PIXE-microPIXE COMPARATIVE STUDY ISSN: 1742-6596, 1742-6588 DOI: 10.1088/1742-6596/617/1/012016/ 10.1088/1742-6596/617/1/012017 ISSN: 1742-6596, **Lozano Garcia, O.**, Colaux, J. Laloy, J. Dogne, J-M & Lucas, S., Journal of Physics: Conference Series, Vol 617, Pag. 1201-1201, Revistas Indizadas.

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