Dr. Pedro Javier Salas Ambrosio
Research Professor at the Bioengineering in Health Unit
National System of Researchers Candidate

Contacto:
https://www.linkedin.com/in/pedro-salas-ambrosio-011885207/
salas.pedro@tec.mx
https://tec.mx/en/research/institute-obesity-research/bioengineering-in-health-unit

Education:

- Postdoctoral researcher, University of California, Los Angeles, USA | 2021–2025
- Ph.D. in Polymer Chemistry, Unversity of Bordeaux, France | 2017–2021
- M.Sc. in Chemistry, UNAM, Mexico | 2013–2015
- B.Sc in Pharmacy, UNAM, Mexico | 2008–2013

Research areas:

- Synthesis of biodegradable, biocompatible and biomimetic polymers (polypeptides, polyesters and polydisulfides)
- Drug delivery systems (nanometric, self-assambled and hydrogel systems preparation)
- Dual effect agents: antimicrobial and anti-inflammatory

Hilighted publications (before joining the Tecnológico de Monterrey) :

1. Salas-Ambrosio, P., Vexler, S., Sivasankaran, P., Vlahakis, R., Lai, R., Johnson, C., Baas-Maynard, S., Min, D. S., Lower, H., Doyle, A., Tang, Y., Rodriguez, J., Chen, I., Read de Alaniz, J., Maynard, H. D. Biosourced Functional Hydroxybenzoate-co-Lactide Polymers with Antimicrobial Activity. J. Am. Chem. Soc. 2025, 147(22), 19230–19238. https://doi.org/10.1021/jacs.5c04624
2. Salas-Ambrosio, P., Tronnet, A., Since, M., Bourgeade-Delmas, et al. Cyclic Poly(-peptoid)s by Lithium bis(trimethylsilyl)amide (LiHMDS)-Mediated Ring-Expansion Polymerization: Simple Access to Bioactive Backbones. J. Am. Chem. Soc. 2021, 143(10), 3697–3702. https://doi.org/10.1021/jacs.0c13231
3. Grazon, C., Salas-Ambrosio, P., Ibarboure, E., Buol, A., Garanger, M.W., Lecommandoux, S., Bonduelle, C. Aqueous Ring-Opening Polymerization-Induced Self-Assembly (ROPISA) of N-Carboxyanhydrides. Angew. Chem. Int.Ed. 2020, 59(2), 622–626. https://doi.org/10.1002/anie.201912028

Awards and funding (before joining the Tecnológico de Monterrey):

- BioPACIFIC MIP Fellowship, NSF (U.S.) | 2021–2025
- Thesis prize, Association Française des Enseignants de Chimie Thérapeutique (France) | 2022
- Ph.D. fellowship, CONACyT (Mexico) | 2017–2021
- M.Sc. fellowship, CONACyT (Mexico) | 2012–2015
- B.Sc. fellowship, UNAM (Mexico) | 2008–2012