

**Roberto Parra Saldívar, Ph.D.***Associate Professor*

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Emails: [r.parra@tec.mx](mailto:r.parra@tec.mx)**Webpages**Research Gate: [https://www.researchgate.net/profile/Roberto\\_Parra5](https://www.researchgate.net/profile/Roberto_Parra5)Google Scholar: <https://scholar.google.com/citations?user=fW6oz88AAAAJ&hl=es>**Research Areas:**

- Skin-on-a chip microbiome
- Drug delivery using nanoparticles from synthetic biology
- Microalgae biotechnology
- Biorefinery and revalorization of agro-industrial waste
- Functional food and high-value compounds
- Wastewater treatment and monitoring

Dr. Roberto Parra-Saldívar obtained his bachelor's degree in biochemical engineering from Instituto Tecnológico de Morelia (1995), followed by a master in food science and technology from Universidad Autónoma de Querétaro (2000), and doctoral degree in biotechnology from Cranfield University, UK (2004). In 2005 he was contracted in a FP6 EU funded project (SOPHIED) as a postdoc at Westminster University, London, UK. From 2017 to 2018 he was a visiting professor at Massachusetts Institute of Technology, Harvard University and Brigham Women Hospital in Boston, USA. During his professional career, he worked as project manager at ECOLAB (2000), joint to Tecnológico de Monterrey, in 2009 at the Water Center, and later in 2014 he became part of the Biotechnology Center in the Emerging Technology Group. Roberto is Research Professor, Leader of the Applied Sustainable Biotechnology group of the ITESM Biotechnology Center as part of the biotechnology and nanotechnology departments. He has published more than 100 articles in scientific journals with strict and high impact arbitration and has more than 2250 citations. He has seven patent applications, one granted patent (MX-a-2011-008773) and three book chapters in important publishers such as Elsevier and Nova Academics. It belongs to the National Researchers Council, level II; Mexican Academy of Sciences and the Project Appraisal System of CONACyT and Water Research. He has extensive experience in the development of projects linked to the industry. He also has expertise in the development of microorganisms in liquid cultures and production and extraction of metabolites of industrial interest. Micro and Nano systems that involve enzyme immobilization, bio-catalysis, Organ-on-a-Chip, biosensors, among others. Dr. Parra has a strong collaboration with several international research groups that include MIT, ASU, KCL, DCU, Charitee, US-Army, UNAM, UBA, BUAP, UAM and many more. Dr. Parra is leader of the IberoAmerica Network LIDA from CYTED involving research centers, universities and industry from seven countries and participate in other networks such as GCSO. Collaboration with industry includes, Cuauhtémoc Moctezuma, Biomex, Bioskinco, Selftec, SADM, hariMasa, La Alegria, Biorganix. In the group the work is done very closely with the industry in order to provide scientifically-based solutions, and create innovation for increasing their competitiveness on an international level. It is done by developing projects along with the industries, adapting to their needs and applying the scientific knowledge that has been developed for years.