PhD. Silvia Maribel Contreras Ramos

Researcher in Center for Research and Assistance in Technology and Design of the State of Jalisco, A.C. (CIATEJ)
Environmental Technology Unit
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Nationality: Mexican
Date birth: November 03, 1977
Civil status: Married
Languages:
English-Advanced. TOEFL
Portuguese – Reading Comprehension B1
French (Française Alliance) Intermediate B1

1. EDUCATION

(2006) PhD in Environmental Biotechnology. CINVESTAV-IPN. Thesis Title: "Assimilation and Accumulation of PAHs by *Eisenia fetida* in Soil Contaminated with Hydrocarbons." Mexico City, Mexico.
(2002) Master of Science in Environmental Biotechnology. CINVESTAV-IPN. Thesis Title: "Effect of the Application of Compost from a Tannery Effluent on C and N Dynamics in Agricultural Soils of Leon Guanajuato," Mexico City, Mexico.
(1999) Bachelor's Degree in Biochemical Engineering. Technology Institute from Acapulco, Guerrero, Mexico. Thesis Title: "Production and Characterization of Chemically Modified Plantain Starch by Acetylation."

2. PROFILE

PhD in Environmental Biotechnology with expertise in physicochemical, microbiological, and nutrient analysis of soils, organic residues, and biosolids. Soil contamination, bioremediation techniques, composting, and vermicomposting, production of biofertilizers and microbial inoculants from beneficial organisms, Plant Growth-Promoting Bacteria (PGPB), organic waste management, molecular biology techniques, allelopathy of weeds and their interactions in soil processes.

3. WORK EXPERIENCE

17 years of experience in R&D and innovation:

1) Director of the Environmental Technology Unit. Responsible for a team of 9-12 researchers. March 2017-June 2023.
2) Full-time Researcher at the Environmental Technology Unit of the Center for Research and Assistance in Technology and Design of Jalisco, A.C. (CIATEJ). from May 2009 to Present.
3) Postdoctoral Position at the National Autonomous University of Mexico (UNAM), at the Institute of Ecology, Functional Ecology Department. September 2007-August 2009.
4) Full-time Professor-Researcher. University of the Sierra Juárez (UNSIJ) Ixtlan de Juárez Campus, Oaxaca. From October 2006 to September 2007.

4 PROJECTS, SERVICES, CONSULTANCIES, AND TRAINING PROVIDED

- **Research & Development, and Innovation multidisciplinary projects**
  - **8 Projects as Lieder (Public funds)**
    1. FODECIJAL-2023 Fund Number 10605-202. In progress, 2023-2024.
    2. FODECIJAL-QUEBEC Fund Number 9824-2022. 2022-2024. Laval University, Quebec, Canada. Completed.
    3. UC-MEXUS-CONACYT CN-18-49. University of California, Santa Barbara, USA. Completed.
    4. Call FOP08-2021-01 Completed.
    5. FODECIJAL-2019 Fund. 2020-2021. Completed.
    6. National Problems Fund 2014- CONACYT Number 247619. 2015-2018. Completed.
    7. SEP- CONACYT Basic Science Fund Number 181070. 2012-2015. 2016-2017. Completed.
    8. FOMIX CONACYT-Government of the State of Guerrero Number 125057, 2010-2012. Completed.
  - **5 different projects with private financial funds (interdisciplinarity)**
  - **4 As collaborator (Public funds), multidisciplinary and interinstitutional projects (Completed and in progress)**

5. THESIS SUPERVISION

In progress: Postdoctoral (1), Doctorate (1), Master's (1), Bachelor's (3); **Completed:** Doctorate (2), Master's (8), Bachelor's (10)

6. INTERNACIONAL PUBLICATIONS (53 PUBLICATIONS)

ORCID ID: https://orcid.org/0000-0002-3774-0833 ; Scopus Author ID: 8333267200, H index= 21, Citations: 1484

7. PATENTS

- **Patent applications Licensed to Private Company**
  1. **MX/a/2022/015976**. Biopesticide for the Biological Control of Mites and Insect Pests.
- **Patent Grants and Licensed to the Private Company**
  1. United States of America BIOFERTILIZER TO INCREASE AGRICULTURAL YIELD 15/570,425
  2. Chile BIOFERTILIZANTE PARA AUMENTAR EL RENDIMIENTO EN CULTIVOS 2017-02768
  3. Canada BIOFERTILIZER TO INCREASE AGRICULTURAL YIELD CA2984620
  4. Europe BIOFERTILIZER TO INCREASE AGRICULTURAL YIELD EP168866720
  5. Mexico BIOFERTILIZER TO INCREASE AGRICULTURAL YIELD. MX/a/2015/0155919
- **Patent Grants**

8. Mexico, MX/a/2019/014821. Bioaugmentation Inoculum for Hydrocarbon Degradation and Its Use for Bioaugmentation and Degradation of Hydrocarbons in Contaminated Soils.

9. Award

1. State Innovation, Science, and Technology Award of Jalisco 2015-2016 in the " Innovation " category. With the project: Technological development for producing a bacterial inoculant (consortium) for agriculture.