

# Rosario del Carmen Flores Vallejo



## LAST POSITION

- (2017- 2019) – Research assistant. Centre of Biotechnological Research. Autonomous University of the State of Morelos, Mexico.  
Co-supervisor of M. Sc and B.Sc. students:  
-Guadalupe Flores. Master of Science in Biotechnology. (2017-2019). Graduated.  
-Miguel Linares. Master of Science in Biotechnology. (2018-present). In process.

## MEMBERSHIPS

- Member of the Mexican Network for the Development of Antimicrobials (REMEXDAN)
- Associate student at the Mexican Society of Biotechnology and Bioengineering

## EDUCATION

- **Master of Science in Biotechnology (2014-2017)**. Center of Biotechnological Research. Autonomous University of the State of Morelos. **GPA: 9.8/10**.
- **Bachelor of Science in Biotechnology (2010-2014)**. Monterrey Institute of Technology and Higher Education. Molecular biology and Biochemistry track. Certification in Research and Development. **GPA: 90.61/100**.

## CO-ADVISOR OF STUDENTS

- **Master in Science:** Guadalupe Flores Arroyo (Graduated) 2017-2019. Center of Biotechnological Research. Autonomous University of the State of Morelos.
- **Master in Science:** Miguel Angel Linares (In progress). 2018. Center of Biotechnological Research. Autonomous University of the State of Morelos.

## RESEARCH PUBLICATIONS

- Salazar-Ramírez, G., **Flores-Vallejo, R. del C.**, Rivera-Leyva, J. C., Tovar-Sánchez, E., Sánchez-Reyes, A., Mena-Portales, J., Sánchez-Carbente, M.R., Gaitán-Rodríguez, M.F., Batista-García, R.A., Villarreal, M.L., Folch-Mallol, J.L., Mussali-Galante, P. (2020). Characterization of fungal endophytes isolated from the metal hyperaccumulator plant *Vachellia farnesiana* growing in mine tailings. *Microorganisms*, 8: 226. DOI: 10.3390/microorganisms8020226.
- **Flores-Vallejo, R. del C.**, Folch-Mallol, J. L., Sharma, A., Cardoso-Taketa, A., Alvarez-Berber, L., Villarreal, M.L. (2020). ITS2 ribotyping, in vitro anti-inflammatory screening, and metabolic profiling of fungal endophytes from the Mexican species *Crescentia alata* Kunth. *South African Journal of Botany*. DOI: 10.1016/j.sajb.2019.12.030.
- Pedraza-Alva, G., Ramírez-Serrano, C. E., Pedraza, F., **Flores-Vallejo, R. del C.**, Villarreal, M. L., Pérez-Martínez, L. (2019). *From traditional remedies to cutting-edge medicine: using ancient Mesoamerican knowledge to address complex disorders relevant to psychoneuroimmunology*. *Brain, behavior, and immunity*, 79: 3-5. DOI: 10.1016/j.bbi.2019.04.022.
- **Flores-Vallejo, R. del C.**, Folch-Mallol, J. L., Cardoso-Taketa A.T., Villarreal, M.L. Sharma, A. (2019). *Hidden Microbial Helpers Living Inside Plants: Getting to Know Endophytes and Some of Their Applications in Our Daily Lives*. *Frontiers for Young Minds*, 7: 11. DOI: 10.3389/frym.2019.00011.
- Sharma, A., Angulo-Bejarano, P.I., Fierros-Romero, G., **Flores-Vallejo, R. del C.**, Gomez-García, K.R., Ruiz-Colín, G. (2018). *Struvite production by Pseudomonas syringae pv. phaseolicola*. *Journal of Microbiology, Biotechnology and Food Sciences*, 8: 812-814. DOI: 10.15414/jmbfs.2018.8.2.812-814.
- Sharma, A., **Flores-Vallejo, R. del C.**, Cardoso-Taketa, A., Villarreal, M.L. (2016). *Antibacterial Activities of Medicinal Plants Used in Mexican Traditional Medicine*. *Journal of Ethnopharmacology*, 208: 264-329. DOI: 10.1016/j.jep.2016.04.045.

## AWARDS

- Selected as one of “100 Young Leaders in Biotechnology from Latin-America 2018”. NGO Allbiotech International. (November 8<sup>th</sup> -11th, 2018).
- First place award at poster contest on the “XVI National Conference of the Mexican Society of Biotechnology and Bioengineering.” Project’s title: "Metabolomic analysis of the GC-MS chemical profiles of the sedative and antiinflammatory plant *Galphimia glauca* collected from 5 populations in Mexico." Jalisco, Mexico (June 21st -26th, 2015).

- Third place and alumni vote on “Elevator pitch contest: The wolf’s cave.” Project’s title: “Nanobiotechnology to eradicate *Helicobacter pylori* from the gastric cavity” Querétaro, México (May 7th, 2014).
- Third place at the State of Mexico’s Chemistry Olympics Competition (2008 and 2009). Faculty of Chemistry of Autonomous University of the State of Mexico.

#### **PARTICIPATION AT SCIENTIFIC OUTREACH EVENTS**

- Participant at “Multivariate analysis and management of databases in R software.” Center of Research in Applied Biological Sciences. State of Mexico, Mexico. (July 9<sup>th</sup>-July 12<sup>th</sup>, 2018).
- Attendee at the international symposium: “Natural products and drug discovery.” Center of Biomedical Investigations, UNAM. Mexico City, Mexico (13th -14th September, 2018).
- Attendee at the international symposium: “Regulation of the genetic expression in bacteria of clinical and industrial interest.” Center of Biomedical Investigations, UNAM. Mexico City, Mexico (17<sup>th</sup> -18<sup>th</sup> May, 2018).
- Participant at “General workshop of Nutrigenetics and Nutrigenomics for health professionals.” Institute of Nutrigenomics. Advisor: Dr. David de Lorenzo. Madrid, Spain (May-September, 2017).
- Participant at “9th International workshop on Metabolomics.” Advisor: PhD. Young Hae Choi. Dr. rer. nat. Robert Verpoorte. Leiden, Netherlands. (April 14<sup>th</sup>-May 2<sup>nd</sup>, 2016).
- Participant at “General Workshop of Intellectual and Industrial property.” Certification of the World Intellectual Property Organization (April 1<sup>st</sup> -May 16<sup>th</sup>, 2015).
- Participant at workshop: “Molecular identification of bacteria from clinical samples through endpoint PCR, real time PCR and RAPD-PCR methods.” Faculty of Chemistry of the Autonomous University of the State of Mexico and the National Polytechnical Institute. (July 10<sup>th</sup> -12<sup>th</sup>, 2013).