



# María Antonieta Ramírez-Morales

## Bionanotechnologist

maryarmzm@gmail.com  
+52 1 412 177 03 28

**Early-Stage Researcher (ESR-7) PhD candidate in Materials engineering and nanotechnology.** Universitá del Salento & HiQ Nano through Supercol project (860914).

Education

**MSc in Materials science and engineering.** Skolkovo Institute of Science and Technology. Moscow, Russia. 2018-2020.

**BSc in Biotechnological engineering.** (11107343). Instituto Politécnico Nacional. Guanajuato, México. 2013-2017.

*Modification of carbon-based nanomaterials for biomedical approaches. Master thesis.* Nov 2019-Mar 2020.

*Core@shell nanoparticles as candidates in Magnetic Hyperthermia Therapy. BNERC-Toyo University.* Tokyo, Japan. Oct-Dec 2019.

*Doping of carbon nanotubes. Laboratory of Nanomaterials-Skoltech.* Russia. Jul-Oct 2019.

*Metal nanoparticles against infections in ulcers and mastitis. Nabicon SAPI DE CV. Mx.* May-Jul 2019.

*Green synthesis of silver nanoparticles using E. crassipes extract as a reducing agent and its antimicrobial activity. Bachelor Thesis.* Jun-Dec 2017.

*Extraction and characterization of oil from Jatropha curcas, Jatropha bigelovii and Ricinus communis as raw material for biodiesel production. Summer research. CIATEC.* Mexico. Jul-Aug 2017.

*Optimization of enzymatic hydrolysis of PPFMs. Summer research. DCI-UG. Gto, Mexico.* Jun-Jul 2015.

*Construction of silencing vectors and basic molecular biology techniques. Short Stay. CINVESTAV Irapuato. Gto, Mexico.* Jan 2015.

Research Experience

**Mathematics and English teacher.** Cecyteg Celaya II (*High school*). Gto, Mexico. Sep-Dec 2020.

**Research and Develop Intern.** Nabicon SAPI de CV, Gto, Mexico. May-Jun 2019.

**Chemical Laboratorist Teacher.** CETIs 77 (*High school*). Gto, Mexico. Jan-Jul 2018.

**Traffic Agent** at American Airlines, Menzies aviation, Guanajuato International Airport (BJX). May-Sep 2016.

Work experience

### More info

Spanish (native language)  
English (B2) American visa

Teamwork  
Responsability  
Oral and written expression

### Skills

Dancing  
Rugby player  
American football player

E. Duncan, *et al.* A new species of planarian flatworm from Mexico: *Girardia guanajuatensis*. *bioRxiv. Preprint*. 2020.

J C Martínez Espinosa, R Carrera, **Maria Ramírez-Morales**, et al . Characterization of silver nanoparticles obtained by a green route and their evaluation in the bacterium of *Pseudomonas aeruginosa*. *Crystals*. 10(5). 2020

Orysia Zaremba, Anastasia Goldt, **Maria Ramirez-Morales**, et al. Robust technique for dispersion of single-walled carbon nanotubes in aqueous solutions with tRNA. *Carbon*, 151. Pp 175-180. 2019

Skoltech President's Scholarship for Scientific and Technological Excellence for Master Students 2020.

Participation at **Twizy contest 2020**. First and second stage.

Participation at **Kuka medical awards 2020**. First and second stage.

Poster at *17th International Symposium on Bioscience and Nanotechnology*. Japan. Oct 2019.

Presentation "*Biotech in space*" ar Space-up congress. Moscow, Russia. May 2019.

Presentation "Production of. biodegradable packages using bacteria" OpenMic. Moscow, Russia. May 2019.

Poster at 3rd International workshop on electromagnetic properties of novel materials. Moscow, Russia. Dec 2018.

Organizer of "First meet-up of synthetic biology in Mexico". Gto, Mexico. Aug 2016

*XVI National Congress of Biochemistry and Plant Molecular Biology & IX Symposium Mexico/USA*. Querétaro, Mexico. Dec 2015.

6th conference "*Accelerating the cure of Alzheimer's disease through regenerative medicine*" **Duke University**, Durham, North Caroline, USA. Nov 2014.

**Leader. Allbiotech.** Leaders in biotechnology in Latin America. 2020-Present.

**instructor** "*Despacito; spanish club*" | Skoltech. Jan 2019.

**Member Volunteer club** | Skoltech. Sep 2018- April 2020.

**Linking coordinator** | *Student Society of Biotechnology*. (SEPIB). Mar-Jul 2016.

**iGEM Guanajuato team**, Boston, MA. Nov 2015.

**Secretary and member.** Youth scientific society. León, Gto. 2015-2016.

Member. **Thematic network of synchrotron light users (RedTuls)**. 2015-2017.