Leidy García Maza

Chemist

Plate No. PQ-09181, COL

Mail: ljohanagarcia@mail.uniatlantico.edu.co **;Telephone:** + 57 3043721093
Web-page: Leidy J. García Maza (lgarciamaza.github.io)

As a professional I have worked in different areas of Chemistry such as Biological and Medicinal Chemistry, Organic Chemistry and Analytical Chemistry, allowing a comprehensive and multidisciplinary training to increase my technical and scientific skills. My goals as a researcher are mainly based on the area of Chemical Biology, Microbiology and Organic Chemistry guided to drug discovery and development. The most important thing is to give back to the community all the knowledge acquired through projects with social impact and the dissemination of information resulting from research carried out with the scientific community.

Professional experience

July/2023 - Dec/2023 **HPLC Chemist Analyst,** *"Development of Analytical Methodologies for Quality Control and Innovative Applications on Active Ingredients in Medicinal Cannabis Products in the Department of the Atlantic" BPIN code 2020000100432, by Agreement No. 8 of 24 August 2021 issued by the OCAD of the FCTeI-SGR." (**Certification in progress**).*

Main task: *Development and validation of analytical methods using traditional techniques for the identification and quantification of CBD and THC (HPLC) Support for the conduct of workshops and general activities specific to the project Preparation of technical reports Compliance with the regulations of the National Narcotics Fund regarding the activities carried out within the framework of the research project.*

Dec/2021 - Dec/2022 **Young researcher,** *scholarships to strengthen CTeI projects in health sciences with young talent and regional impact, El MINISTERIO and Fondo de Investigación en Salud (FIS, for its acronyms in spanish).*

Main task*: Organic synthesis by conventional methods Analysis and purification of compounds by chromatographic techniques (thin-layer chromatography and column chromatography) Interpretation of spectra of UV-Vis, IR, NMR (^{1}H , ^{13}C, DEPT 135, COSY, HMBC, HSQC and NOESY) and EM Planning and execution of bacterial growth inhibition assays and determination of virulence factors in bacterial pathogens ATCC isolated Writing of scientific articles and elaboration of research projects with social impact Technical-scientific training to the student community belonging to the Research Group of Organic Chemistry and Biomedical - University of the Atlantic, in the use of laboratory equipment, organic synthesis and, training in laboratory techniques in the area of microbiology.*

Education

2017 – 2022 **Chemist,** Bachelor 's degree/ *Universidad del Atlántico*. **Project title**: iDA reaction in the construction of several tetrahydroquinoline derivatives. Study of their properties as regulatory agents of Quorum sensing in *Pseudomonas aeruginosa*.

Research Experience and Publications

Peer-reviewed Publications

- **García, L.**; Salgado, A.; Kouznetsov, V. V; Meléndez, C.M., ***Pyrrolo[2,1-a]isoquinoline scaffolds for developing anti-cancer agents***., *RSC Adv*, **2024**, 14, 1710–1728. https://doi.org/10.1039/D3RA07047F
- **García Maza**, L.J.; Orosco Flórez, D.F.; Salgado, A.R.M.; Rosales, W.; Mendoza-Torres, E.; Meléndez, C.M., ***A mild catalyzed imino Diels-Alder reaction for the synthesis of N-(2-(o-tolyl)-1,2,3,4-tetrahydroquinoline-4-yl)formamide derivatives as regulators of Quorum Sensing in Pseudomonas aeruginosa***., *Results Chem.*, **2023**, 6, 101210. https://doi.org/10.1016/j.rechem.2023.101210

Honors and Awards

- *Internship grant "**Young Researcher**", awarded by El MINISTERIO and Fondo de Investigación en Salud (FIS), under contract 519 of 2021 resulting from selective process 874 of 2020.*

Additional languages

English Read: **C1** Speak: **B2** Write: **C1** Listen: **B2**

Presentations and Events

Event: 35° Congresso Latino-Americano de Química e 61° Congresso Brasileiro de Química.
Type of event: *International Congress*
Type of participation: *Poster*
Title: *A mild catalyzed Imino-Diels Alder reaction. Synthesis of N-(2-(o-tolyl)-1,2,3,4-tetrahydroquinoline-4-il)formamide derivatives as antimicrobial agents.*
Place: *Rio de Janeiro, Brasil - Centro de Convenciones Windsor Florida, 14/11/2022 – 18/11/2022.*

Event: *Caribe Microbial Meeting 2022*
Type of event: *National Congress*
Type of participation: *Poster*
Title: *Efecto de una serie de derivados o-tolil(1,2,3,4-tetrahidroquinolin-4-il)formamida sobre el crecimiento bacteriano y formación de Biofilm en Pseudomonas aeruginosa.*
Place: *Valledupar, Cesar - Universidad Popular del Cesar, 28/10/2022*

Event: *II Congreso de Química del Caribe, Congreso Internacional*
Type of event: *National Congress*
Type of participation: *Assistant*
Place: *Barranquilla, Atlántico - Universidad del Atlántico, 27/02/2019 - 01/03/2019*

Event: 1er *Congreso internacional de nuevas tecnologías de mar y río (CINTECMAR)*
Type of event: *National Congress*
Type of participation: *Assistant*
Place: *Barranquilla, Atlántico - Puerta de oro, Centro de eventos, 13/10/2016 - 14/10/2016*

Computational skills

Excel: Advanced; ***MATLAB*** **:** Basic

Further training

09/2022 Advanced course of **High Performance Liquid Chromatography (HPLC)**, *Assistant. Pharmaceutical Services & Consulting. Duration: 16 hours. 100/100 passed.*

08/2023 Basic course of **High Performance Liquid Chromatography (HPLC)**, *Assistant. Pharmaceutical Services & Consulting. Duration: 12 hours. 80/100 passed.*

03/2022 **Biosafety in the laboratory**, *Assistant. Fundación Global Disease Research Colombia. Duration: 24 hours.*

References

- **Carlos Mario Meléndez Gómez, Qco, *PhD*.** carlosmelendez@mail.uniatlantico.edu.co.
- **Dency José Pacheco Lopéz, Qco, *PhD*.** dencypacheco@mail.uniatlantico.edu.co.