Name: Alejandro Gómez García
Position: PhD student in Chemical Sciences
Institution: National Autonomous University of Mexico (UNAM)
Department: Pharmacy

Research focus:

His research focuses in the Computer-aided drug design (CAAD) for development and application of *in silico* methods to identify and optimize therapeutic compounds. Among the employed techniques are molecular docking, homology modeling and diverse chemoinformatics methodologies implemented through the Python programming language to analyze and characterize the chemical space of large compound chemical databases with a focus on natural product databases.

Academic Background:

Alejandro holds a Bachelor's degree in Chemical Biological Chemistry from UNAM and a Master's degree in Chemical Sciences from the same institution. His master's thesis explored the application of homology modeling and molecular docking techniques to identify inhibitor compounds against the isoforms of the enzyme DNA methyl transferase. During his Master's studies he did a stay in Italy at the University of Turin in the Department of Drug Science and Technology, where he employed different *in silico* methodologies to identify inhibitor compounds against the NLRP3 enzyme. In his PhD studies, he is working on the assemble and chemoinformatics characterization of a unified natural product database of Latin American natural products.

Publications and congresses:

Alejandro has authored and co-authored six peer-reviewed articles. He has also presented his research at international conferences, including the American Chemical Society (ACS) Annual Meeting in 2019 and 2023 and Merck Young Chemists' Sympoium in 2019.