

Luis G. Ramírez-Pagán

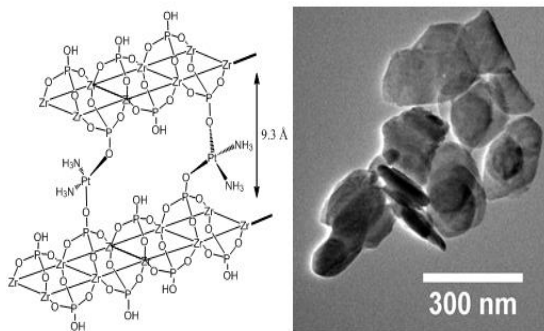
Current Status

B.Sc. Student, Research Assistant
Department of Chemistry, UPR-RP

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Education

2015-present University of Puerto Rico – Río Piedras Campus
2020 B.Sc. Chemistry (expected)



Research Interests:

The delivery of drugs for cancer treatment to the body is often achieved by methods that are non-selective and, therefore, damaging for the human body. Therefore, it is most relevant to investigate alternative ways of delivering these drugs (such as doxorubicin and cisplatin) in a less invasive manner by improving the selectivity of the drug delivery systems. The chemical and physical versatility of zirconium phosphate makes it a good candidate for the design of drug delivery systems through intercalation of the drug. To further enhance the biocompatibility and selectivity of the zirconium phosphate nanoplatelets their surfaces are being modified with poly(ethylene glycol) (PEG) and with folic acid, expecting, then, the synthesis of a more efficient chemotherapy agent.

Research Experience

2017-present University of Puerto Rico – Río Piedras Campus, Intercalation and co-intercalation of cancer treatment drugs in zirconium phosphate nanoplatelets for improved drug delivery, (Jorge L. Colón-Rivera, Ph.D.)

Honors

2018-present Maximizing Access to Research Careers (MARC) – Research Assistant