

RAYSON SANTIAGO

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Authorized to work in the U.S.

EXPERIENCE

Immunology & Molecular Biology Laboratory

BARRANQUILLA, COLOMBIA

Laboratory Assistant

January 2017 - March 2020

Laboratory Management and Organization

- Opened and closed the laboratory independently every day; ensured that the facilities and equipment were in proper working condition.
- Reported equipment malfunctions; recognized problems as they occurred; coordinated the required preventive maintenance and repairs, in a timely and effective manner.
- Maintained laboratory environment and assisted with the ordering, tracking, and reception of new laboratory supplies; Prepared stock reagents and assisted in the upkeep of inventory.

Research Support

- Participated in conducting routine experiments using standardized protocols.
- Performed assays to support research studies.
- Provided hands-on assistance to other laboratory members.
- Assisted in interpreting laboratory results.
- Prepared and maintained detailed records of all procedures and results.
- Maintained the confidentiality of all the research information.
- Performed other related duties.

Class Assistance

- Supported the head professor with the molecular biology laboratory classes; provided mentorship to students.
- Assisted in preparing the protocols and instructing the students in the correct use of all the lab equipment, biosafety, DNA extraction, electrophoresis, PCR, and analysis of DNA via nanodrop spectrophotometer.

Instituto de Investigaciones Biológicas del Trópico (Tropical Biological Research Institute)

MONTERÍA, COLOMBIA

Intern

October 2018 - November 2018

- Carried out tick sampling techniques.
- Assisted in the collection, analysis, and review of experimental data.
- Taxonomically identified ixodid ticks and extracted DNA from ticks' samples.
- Detected *Rickettsia* sp. using PCR technique.

EDUCATION

Universidad del Atlántico (University of Atlántico) BARRANQUILLA, COLOMBIA

Bachelor of Science in Biology

Thesis: Rickettsiales (alpha-proteobacteria: rickettsiales) associated with hard ticks (acari: ixodidae) in the Colombian Caribbean: a systematic review.

Participation in congresses: XVI Departmental Meeting of Research Seedbeds RedCOLSI.

SKILLS & INTERESTS

- Pipetting
- Sterilization of lab equipment
- PCR
- DNA/RNA extraction
- Agarose gel electrophoresis
- Bilingual (English / Spanish)
- Adobe Photoshop/ Lightroom
- Bass guitar
- Photography
- Coin-collecting