



# BSc. SAMUEL D. ESCUDERO-SANJUR

**e-Mail: samuel.escu18@gmail.com | +507 6398-1111**

Enthusiast in scientific research oriented to Molecular Biology, Genetics and Bioinformatics. Experience as a laboratory assistant focusing on research with strong organizational skills and attention to detail for accurate data collection and laboratory maintenance. Great adaptability and dedication to perform different assays efficiently, safe working conditions, provide quality service and willingness to learn new techniques.

## EDUCATION

Bachelor of Biology with Orientation on Genetics and Molecular Biology

University of Panama  
2015-2021

Postgraduate Degree in Higher Education

University of Panama  
2022-2023

## TECHNICAL SKILLS

- Data analysis.
- Sample management.
- Laboratory maintenance.
- Report writing.
- Project management.
- Effective communication.
- Biosafety and organization in the laboratory.

## LANGUAGES

- Spanish: Native (Fluent)
- English (Intermediate: IELTS-B2)

## ADDITIONAL INFORMATION

- Nationality: Panamanian
- Suitability of Biological Sciences: N°:CTCB-1527-2022
- Other e-Mail: samuel.escudero@up.ac.pa
- linkedin.com/in/samuel-d-escudero-s-97b959136

## PROFESSIONAL EXPERIENCE

Research Project Assistant: "Scorpionism-Molecular Biology" at the Center for Drug and Toxic Information Research (CIIMET). **January 2021- June 2023**

## WORK EXPERIENCE

- Received, recorded, transported and processed samples, according to established protocols.
- Supported laboratory activities, inventory and technical reporting of in-process and completed activities.
- Performed field activities with supervision of the project managers.
- Developed experimental protocols in molecular biology and bioinformatics, following the instructions of those responsible for the project.
- Contributed with the elaboration of manuscripts for scientific publications with data generated in the laboratory.
- Advised undergraduate students in the execution of assays for their research thesis

## RESEARCH EXPERIENCE

- Research collaboration with the project: Morphological and molecular detection of pathogenic filamentous fungi isolated in water from Panama Bay (CIIMET). **2022**
- Thesis Research in Genetics and Molecular Biology Laboratory (VIP University of Panama) Laboratory experience in Electrophoresis, DNA Extraction, PCR and DNA and Protein Sequence Analysis. **2019-2021**
- Research collaboration with the project: Molecular studies of the genus Porthidium in Panama (CIIMET). **2019**
- Internship at the Center for Research and Information on Drugs and Toxics (CIIMET). In vitro culture of scorpion fungi in captivity. **2018**

## GRANTS

- Funding of a research project by the Vicerealty Office for Research and Postgraduate Studies (VIP) of the University of Panama, entitled: "Molecular phylogeny of the genus Centruroides in Panama based on 16S rRNA and COI genes". With code VIP-CEIP-01-04-06-2019-08. Support: US\$2,500. Area of research: Genetic polymorphism at the molecular and cellular level. **2019-2020**
- Selected to receive a scholarship from the IFARHU-SENACYT Scholarship Program to pursue a Master's degree in Bioinformatics. **2022-2023**

## PUBLICATION

Escudero-Sanjur, S., Castro-Perez, E., De Patiño, H.A., Rastogi, I. & Ramos, C. W. **2022**. Genetic diversity of medically important scorpions of the genus *Centruroides* (Buthidae) from Panama including two endemic species. *J Genet* 101, 32.

## CONFERENCE PRESENTATIONS

- APANAC Congress; presentation of the work: Genetic diversity of the genus *Centruroides* in Panama based on partial sequences of the mitochondrial gene's rDNA 16S and Cytochrome oxidase I. **2021**
- Toxicology of snake and arachnid venoms: fundamental concepts and introduction to experimental methods for scientific research. Group B Experimental part. Molecular Biology studies on scorpions. **2022**

## COURSES AND SEMINARS

- Seminar-Workshop: Scientific and ethical aspects in research with experimental animals (40h). **2020**.
- International Course on Tropical Medicine in Memory of Dr. Alan Gabster. **2020**.
- Course "Bioinformatic Methods I" by Coursera. **2020**
- Digital Competencies. Office automation tools (Microsoft Word, Excel, Power Point) by Coursera. **2020**.
- Course "The Data Scientist's Toolbox" by Coursera. **2020**.
- Basic Molecular Biology Seminar (CIIMET) (40h). **2020**.
- International Bioinformatics Workshop 2021-1 México. Genome and Metagenome Assembly and Annotation (40 hours). **2021**.
- Course of Bioinformatics Tools for Massive Sequencing Data (UNAM) México (70 hours) **2021**.
- Theoretical-Practical Seminar "Toxicology of snake and arachnid venoms: fundamental concepts and introduction to experimental methods for scientific research". (CIIMET) (150h). **2021-2022**.
- Attendance at the First Symposium of Spanish-Speaking Students of Bioinformatics and Computational Biology (8h). **2022**.
- Scientific Research Proposal Writing Course. SENACYT- Sustainable Science Institute. (28h). **2022-2023**.
- Introduction to Programming. INADHE (40 hours). **2023**.
- Fundamentals of HTML. INADHE (40 hours). **2023**.
- Introduction to Genomic Technologies (Genomic Data Science Specialization by Coursera). **Dec-2023**.
- Python for Genomic Data Science (Genomic Data Science Specialization: by Coursera). **Jan-2024**.

## REFERENCES

1- **PhD Carlos W. Ramos** (Full Professor, Department of Genetics and Molecular Biology, Faculty of Biology, University of Panama.). Cel: +507 6779-8283

2- **PhD Edgardo Castro-Pérez** (Professor, Department of Genetics and Molecular Biology, University of Panama.). Cel: +507 6282-9256.