MILTON VINDAS RODRÍGUEZ
1-1309-0402

San Pablo, Heredia, Costa Rica
m.vindasrod@gmail.com
C. (+506) 8923-6727

ACADEMIC PROFILE

2020-Present	**Universidad Cenfotec** (www.ucenfotec.ac.cr) Software Engineer	**San José, Costa Rica**
2010-2019	**Universidad de Costa Rica** (www.ucr.ac.cr) Master's in Microbiology	**San José, Costa Rica**
2006-2009	**Instituto Tecnológico de Costa Rica** (www.tec.ac.cr) Biotechnology Engineer	**Cartago, Costa Rica**

WORK EXPERIENCE

Feb 2016-May 2018   **Microbiological Compliance Laboratories LLC/SRL**   **Alajuela, Costa Rica**
Laboratory Technician (Katherine Fernández, 8838-0443)

- Responsible for maintenance of the microbiology laboratory and quality system (management of non-conforming results, CAPAs resolution, documentation system supervision, equipment maintenance, acceptance of materials).
- Preparation of test reports, validation of equipment and test methods, analysis of data and trends.
- Execution of test methods for medical devices: bioburden, microbiological sampling of surfaces, air and particles, bacterial endotoxin test.
- Validation of clean rooms and laundry processes in the pharmaceutical and medical device industry.

Mar 2010-Nov 2013   **Laboratorio de Polímeros, Escuela de Química, Universidad Nacional** (www.poliuna.una.ac.cr)   **Heredia, Costa Rica**
Professor/Researcher

- Conditioning and equipment of the new Biotechnology laboratory.
- Sampling techniques protocols and preservation of samples of biological origin, preparation of bacterial culture media. Implementation of biological waste disposal practices and sterilization protocols, development of sterile areas methodology for handling reagents and bacterial strains.
- Operation of bacterial propagation and fermentation equipment, such as incubators, agitators, bioreactors.
- Analytical chemistry and molecular biology techniques such as DNA extraction, polymerase chain reaction, electrophoresis.
- Use of chemical precipitation and lyophilization techniques.
- Implementation of statistical analysis methodologies.
- Use of agroindustrial wastes: extraction of fructans from yam wastes, economic bioprocess analysis by SuperPro Designer simulator, bioproduction of dextrans from pineapple sucrose with *L. mesenteroides,* production of nutraceuticals from fungal-derived chitin using bioprocesses.
- Purchase and handling of chemical reagents.
- Preparation of technical reports and scientific papers.

PROFESSIONAL INFORMATION

Professional extract and soft skills	I am passionate about Biotechnology and Informatics. I am 100% involved in everything I do, creative, resilient and love teamwork. I would like to be part of an enthusiastic team, with strong professional ethics and diverse skills, whose goal is to develop creative and innovative solutions to improve the quality of life of society in a sustainable way. I have developed my professional career in institutions that promote scientific research, as well as in the medical industry sector, fulfilling the established goals. I am excited about a project in which I can add value with my two knowledge areas allowing me to grow professionally and personally, facing new challenges and technologies.
Research & publications	• Papers in review: "A new multidrug-resistance, conjugative plasmid from the MOBH2 subfamily isolated from a pig farm" & "Comparative genomics of conjugative plasmids from sediments differentially exposed to oxytetracycline: widespread occurrence of IncP-1β elements and farm release of *tet* genes". 2020. • Evaluation of three Chloroplastic Markers for Barcoding and for Phylogenetic Reconstruction purposes in native plants of Costa Rica. Milton Vindas-Rodríguez, Keilor Rojas-Jiménez, Giselle Tamayo-Castillo. Revista Ciencia y Tecnología. Volume 27. 2012.
Technical skills	Java, C++, C# HTML, CSS, JavaScript, MERN, SQL SPSS, Photoshop Microsoft Package (Excel, Word and PowerPoint)
Languages	Spanish (Native) English (Advanced)
Courses	• CCNA: Introduction to Networks (ITN). NetAcademy Cisco. 2021. • Scrum Master Professional Certificate (SMPC). Universidad Cenfotec. 2020. • Bacterial Endotoxin Analysis Techniques (LAL) and new emerging technologies. Universidad de Ciencias Médicas. 2017. • LAL (*Limulus* amebocyte lysate) methods and their different applications. Universidad de Ciencias Médicas. 2016. • Design and Statistical Analysis of Experiments. Universidad de Costa Rica-Universidad Nacional. 2012.
Seminars	• Central American Congress of Nanotechnology. 2012. UNA-CENAT-POLIUNA-LANOTEC. November 26-28, 2012. • National Congress of Nanotechnology. 2012. UNA-CENAT-POLIUNA-LANOTEC. November 26-28, 2012. • X Seminar: Use of Marine and Agricultural Waste. 2012. UNA-CENAT-POLIUNA-LANOTEC. November 26-28, 2012. • II National Polymers Congress. 2012. UNA-CENAT-POLIUNA-LANOTEC. November 26-28, 2012. • XII Latin American Polymer Symposium (SLAP 2010). Organized by Universidad Nacional. July 13-16, 2010. • Symposium of Infectious Diseases. 2010. Universidad de Costa Rica.
Distinctions	• Three invitations to ExpoCenfo held on Universidad Cenfotec due to remarkable software projects: TicoPARK, Reinos Cenfotecos, NexSpace. 2020-2021. • Graduate of honor in Master's in Microbiology, Parasitology and Clinical Chemistry. Universidad de Costa Rica. 2019. • Honorable mention to the graduation thesis entitled "Spectrum of resistance, genetic structure and evolutionary relations of conjugative plasmids with tetracycline resistance isolated from Costa Rican agricultural ecosystems. 2019. • Graduate of honor as a Biotechnology Engineer on February 26, 2009. Instituto Tecnológico de Costa Rica. • Honorable mention by the Qualifying Jury in thesis entitled "Evaluation of three regions of the chloroplast as genetic barcodes in different groups of plants in Costa Rica." Instituto Tecnológico de Costa Rica. School of Biology, 2009.