

José DD Cediél-Becerra

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🎓 Education

University of Florida

Doctor of Philosophy (PhD) Candidate – Microbiology & Cell Science

Gainesville, FL

08/2022–Expected 2026

Master of Science (MSc) – Microbiology & Cell Science

05/2024

- **Advisors:** Marc G. Chevrette, PhD, Raquel Dias, PhD
- **Thesis:** Targeted Genome Mining for Natural Product-Based Drug Discovery.
- **Committee Members:** Dr. Valérie de Crécy-Lagard, Dr. Yousong Ding, and Dr. Daniel Czyz

NIAMRRE – University of Florida

Gainesville, FL

Certificate – NIAMRRE One Health Antimicrobial Resistance (AMR) Interprofessional Education Program

12/2024

John Innes Centre (JIC) – Rudjer Bošković Institute

Dubrovnik, Croatia

Certificate – Microbial Specialised Metabolites: From Genomes to Biological Functions

09/2024

Industrial University of Santander – UIS

Bucaramanga, Colombia

Bachelor of Science – Biology, Computational Biology

12/2021

- **Advisor:** Jorge L. Fuentes, PhD
- **Thesis:** Prodigiosin Production and Photoprotective/Antigenotoxic Properties in *Serratia marcescens* Indigenous Strains from Eastern Cordillera of Colombia.

🏆 Honors & Awards

Recipient of the Boehringer Ingelheim Foundation and John Innes Centre Scholarship Summer School in

2024

Applied Molecular Microbiology (Dubrovnik, Croatia)

Latin American-Caribbean Scholarship Recipient University of Florida

2023–present

Diversity Travel Award Society for Industrial Microbiology and Biotechnology (SIMB)

2023

UF/IFAS CALS Graduate Student Travel Grant University of Florida

2023

UF Graduate Student Council Travel Grants University of Florida

2023

ASP Lynn Brady Travel Award American Society of Pharmacognosy (ASP)

2023

Grinter Fellowship Recipient University of Florida

2022–2023

Opportunity Fund Program Education USA

2022

Summa Cum Laude Award Industrial University of Santander

2021

Laureate Research Thesis Award Industrial University of Santander

2021

UNG Scholarship Recipient The Una Nueva Generacion Project in Colombia

2019–2021

Lumni GEN 50 Scholarship Recipient Zigma-Bancolombia Foundation

2019–2021

Dean's Academic Achievement Award Industrial University of Santander

2019–2021

Best GPA in College of Science Pedagogical and Technological University of Colombia

2017

GPA Honors Award Pedagogical and Technological University of Colombia

2015–2017

⚙️ Service & Leadership

Ad hoc Reviewer Nature Chemistry, PeerJ, BMC Microbiology, Functional and Integrative Genomics, Bioinformatics

2025

Interest Group Coordinator MIBiG - Supervision of Genomic Annotations for Natural Products, International

2024

Executive Board – Treasurer GATOR Chapter of the American Society of Pharmacognosy (ASP)

2024

Gator Guide Organizer and Volunteer for Microbiology and Cell Science Doctoral Student Recruitment Events, University of Florida

2024

Mentee Society for Industrial Microbiology and Biotechnology (SIMB)

2024

Mentor Científico Latino – Project Students for Higher-Ed Opportunities and Representation in Training (SHORT) Team, International	2023–present
Organizer/Instructor Annual Bioinformatics Summer Workshop	2023–present
Volunteer Education USA, Opportunity Funds Program	2023
Mentor Industrial University of Santander	2021
Mentee Científico Latino – Project Students for Higher-Ed Opportunities and Representation in Training (SHORT) Team, International	2021
Volunteer Student program in Bucaramanga's poorest neighborhoods	2021
Mentee The Una Nueva Generación (UNG) Project, Colombia	2020–2021
Volunteer Natural History Museum, Pedagogical and Technological University of Colombia	2015–2016

Publications [Google Scholar](#): 16 citations, H-index 2

Peer-reviewed Publications – Original Research

- 1 MM Zdouc, et al. [398 authors including **JDD Cediél-Becerra**]. "MIBiG 4.0: advancing biosynthetic gene cluster curation through global collaboration." 2024. *Nucleic Acids Research*. [10.1093/nar/gkae1115](#)
- 2 Vd Crecy-Lagard, G Hutinet, **JDD Cediél-Becerra**, Y Yuan, R Zallot, MG Chevrette, RMMN Ratnayake, M Jaroch, S Quaiyum, S Bruner. "Biosynthesis and function of 7-deazaguanine derivatives in bacteria and phages." 2024. *Microbiology and Molecular Biology Reviews*. [10.1128/mmb.00199-23](#)
- 3 **JDD Cediél-Becerra**, JA Suescun Sepulveda, JL Fuentes. "Prodigiosin Production and Photoprotective/Antigenotoxic Properties in *Serratia marcescens* Indigenous Strains from Eastern Cordillera of Colombia." 2022. *Photochemistry and Photobiology*. [10.1111/php.13507](#)

Abstracts

Abstracts

- 1 **JDD Cediél-Becerra**, MG Chevrette. "GATOR-GC Identifies a Rich Landscape of Overlooked Biosynthetic Gene Clusters (BGCs)." Presented at: 10th in the series of John Innes – Rudjer Bošković Summer Schools on Applied Molecular Microbiology. ; Dubrovnik, Croatia; Sep 12, 2024.
- 2 M Saldanha, **JDD Cediél-Becerra**, S Manning, F Barona-Gomez, MG Chevrette. "A global analysis of Bacterial Genomes Links Secondary Metabolism and Antibiotic Resistance." Presented at: Society for Industrial Microbiology and Biotechnology (SIMB) Annual Meeting; Minneapolis, MN; Aug 02, 2024.
- 3 **JDD Cediél-Becerra**, A Cumsille, Vd Crecy-Lagard, MG Chevrette. "Targeted Genomic Searches to Mine Gene Cluster Evolution in Host-Associated Microbes." Presented at: 9th Conference on Beneficial Microbes; Madison, WI; July 21, 2024.
- 4 **JDD Cediél-Becerra**, Vd Crecy-Lagard, MG Chevrette. "GATOR-GC: Genomic Assessment Tool for Orthologous Regions and Gene Clusters." Presented at: UF Drug Discovery Symposium; Gainesville, FL; April 15, 2024.
- 5 M Saldanha, **JDD Cediél-Becerra**, S Manning, MG Chevrette. "A global analysis of Bacterial Genomes Links Secondary Metabolism and Antibiotic Resistance." Presented at: EPI Research Day; Gainesville, FL; Feb 26, 2024
- 6 **JDD Cediél-Becerra**, Vd Crecy-Lagard, MG Chevrette. "7-Deazapurine-derived natural products: An Incredible Potential Source for Drug Discovery." Presented at: Genetics and Genomics Annual Symposium; Gainesville, FL; Nov 16, 2023.
- 7 **JDD Cediél-Becerra**, Vd Crecy-Lagard, MG Chevrette. "Genome Mining Strategies for Non-Canonical Biosynthetic Gene Clusters." Presented at: Microbiology and Cell Science Annual Symposium; Gainesville, FL; Aug 16, 2023.
- 8 MA Gatmaitan, **JDD Cediél-Becerra**, Julia Charske, Mark Ou, Marc G. Chevrette. "Cockroach-associated Bacteria and Their Antimicrobial Activity." Presented at: American Society of Pharmacognosy (ASP) Annual Meeting; Rockville, MD; Jul 26, 2023
- 9 **JDD Cediél-Becerra**, Vd Crecy-Lagard, MG Chevrette. "Deazaguanine Gene Clusters in *Streptomyces* Reveal Putative Nucleoside-Like Natural Products." Presented at: Society for Industrial Microbiology and Biotechnology (SIMB) Annual Meeting; Minneapolis, MN; Aug 02, 2023.
- 10 **JDD Cediél-Becerra**, Vd Crecy-Lagard, MG Chevrette. "PreQ0 Gene Clusters in *Streptomyces* Reveal an Unexplored Biosynthetic Reservoir." Presented at: American Society of Pharmacognosy (ASP) Annual Meeting; Rockville, MD; Jul 26, 2023.
- 11 **JDD Cediél-Becerra**, JA Suescun Sepulveda, JL Fuentes. "Photoprotective and Antigenotoxic Properties of *Serratia marcescens* Indigenous Strains from Eastern Cordillera of Colombia." Presented at: 19th Congress of the European Society for Photobiology (ESP); WWW and Salzburg, Austria; Aug 30, 2021.

Professional Societies & Groups ---

National Institute of Antimicrobial Resistance Research and Education (NIAMRRE)	2024–present
Society for Industrial Microbiology and Biotechnology (SIMB)	2023–present
American Society of Pharmacognosy (ASP)	2022–present

Coursera Education Online ---

Introduction to Molecular Spectroscopy (4 weeks) University of Manchester	2021
Drug commercialization (4 weeks) University of California San Diego	2021
Drug development (3 weeks) University of California San Diego	2021
Drug discovery (3 weeks) University of California San Diego	2021
Writing in the sciences (8 weeks) Stanford University	2020
Introduction to genetics and evolution (11 weeks) Duke University	2020
Whole-genome sequencing of bacterial genomes (4 weeks) Technical University of Denmark	2020