# CAROLINA LOBATO

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Graz, Steiermark, Austria

#### EXPERIENCE

• Institute of Environmental Biotechnology – Graz University of Technology [ ) Jan 2021 - Dec 2024 University Assistant Graz, Austria • **Supervision:** Univ.-Prof. Dipl.-Biol. Dr.rer.nat. Gabriele Berg Institute of Environmental Biotechnology – Graz University of Technology [ ) Apr - Dec 2020 Project Assistant - HydroBioBis Graz, Austria • Supervision: Univ.-Prof. Dipl.-Biol. Dr.rer.nat. Gabriele Berg & Dr. Tomislav Cernava • Plant Science and Crop Production Group – ISA, University of Lisbon [ ) Apr 2018 - Nov 2019 Research Fellow – **HybridOak** Lisboa, Portugal • Supervision: Prof. Dr. Leonor Morais-Cecílio Forest Ecology Group – ISA, University of Lisbon [ ] May 2017 - Mar 2018 Research Fellow - BIOTECH II Lisboa, Portugal Supervision: Prof. Dr. José Carlos Rodrigues CERNAS – Polytechnic University of Coimbra [ ) Sep 2013 - Jun 2014 Graduate Research Intern Coimbra, Portugal • Supervision: Dr. Sandra Gamboa **EDUCATION**  Institute of Environmental Biotechnology – Graz University of Technology [ ) 2021 - ongoing PhD. candidate, Molecular Biosciences and Biotechnology Graz, Austria • Supervision: Dipl.-Biol. Dr.rer.nat. Gabriele Berg • Institute of Biomedicine – University of Aveiro [ 2014 - 2016 MSc., Molecular Biomedicine Aveiro, Portugal • Supervision: Prof. Dr. Gabriela Moura

 Dept. of Infectious Diseases and Microbiology – Univ. of Veterinary Sciences Brno [ ) May - Sep 2013 Internship - LLLP-Erasmus Brno, Czechia

• Supervision: Prof. MVDr. Vladimír Celer, Ph.D.

• Environmental Microbiology (MOL.963UF)

 Higher School of Agriculture – Polytechnic University of Coimbra [ ) 2009 - 2013 BSc., Biotechnology Coimbra, Portugal

# TEACHING EXPERIENCE

Guest Lecture on The Seed Microbiome

• Laboratory Course Microbiome Analysis (MOL.972UF)	2023-2024
Teaching Assistant	Institute of Environmental Biotechnology
• Laboratory Course Environmental Biotechnology (MOL.935UF)	2023-2024
Teaching Assistant	Institute of Environmental Biotechnology
• Biodiversity and Applied Microbiology (MOL.731UF)	2021-2024
Teaching Assistant	Institute of Environmental Biotechnology
• Biodiversity and Applied Microbiology (PLA.221UF)	2021-2024

Teaching Assistant

 Laboratory Course Biotechnology (CHE.177UF) Teaching Assistant

 Environmental Microbiology (MOL.963UF) Teaching Assistant

Institute of Environmental Biotechnology 2021-2022 Institute of Environmental Biotechnology

Institute of Environmental Biotechnology

Institute of Environmental Biotechnology

2023-2024

2021-2024

• Laboratory Course Microbiology (MOL.209UF)  Teaching Assistant	2022 Institute of Environmental Biotechnology
• Laboratory Course Bioinformatics (MOL.923UF)  Teaching Assistant	2021 Institute of Environmental Biotechnology
Genetic Engeneering     Undergraduate Preceptor	2013 Higher School of Agriculture
RESEARCH MENTORSHIP	
• Daniel Shelegy Bachelor Student – Institute of Environmental Biotechnology	2024
• Matevž Zlatnar Project Lab Student – Institute of Environmental Biotechnology	2022
Daniel Habich     Master Student – Institute of Environmental Biotechnology	2021 - 2023
Daniela Dreisiebner  Master Student – Institute of Environmental Biotechnology	2021 - 2023
• Anna Mitterrutzner Project Lab Student – Institute of Environmental Biotechnology	2021
Magdalena Egger  Master Student – Institute of Environmental Biotechnology	2021
• Zahra Azizi Bachelor Student – Institute of Environmental Biotechnology	2021
• Bettina Semler Master Student – Institute of Environmental Biotechnology	2020

## RESEARCH OUTPUT

J=Peer-reviewed Publication, S=In Submission, O=Oral presentation, P=Poster presentation, T=Thesis

- [S] Chen X., Olimi E., Lobato C., Berg G. & Cernava T., "The Tomato Seed Microbiome is Mainly Shaped by Host Genotype and the Production Site" New Phytologist, 2025
- [S] Olimi E., Wuggenig R., **Lobato C.**, Bickel S., Kusstatscher P., Wicaksono W. A., Battisti A., Coyne D., Adriko J., Cernava T. & Berg G., "East Africa's Magical Plant: The Microbiome, Metabolome, and Antimicrobial Potential of *Mondia whitei*, an Herbal Medicinal Plant" ISME Communications, 2025
- [S] Lobato C., Abdelfattah A., Berg G. & Cernava T., "Defining the Cultured and Uncultured Bacterial Fractions in *Cannabis* Seeds" Environmental Microbiome, 2025
- [J] Lobato C., Freitas J.M., Habich D., Kögl B., Berg G. & Cernava T., "Wild Again: Recovery of a Beneficial *Cannabis* Seed Endophyte from Low Domestication Genotypes" Microbiome, 2024
- [O] Lobato C., Freitas J.M., Habich D., Kögl B., Berg G. & Cernava T., "Symbiotic Futures: Leveraging Seed Microbiomes for Sustainable *Cannabis* Cultivation", LANDSCAPE Berlin, 2024
- [P] Lobato C., Freitas J.M., Habich D., Kögl B., Berg G. & Cernava T., "Symbiotic Futures: Leveraging Seed Microbiomes for Sustainable *Cannabis* Cultivation", 5th Plant Microbiome Symposium Amsterdam (PMS), 2024
- [O] Lobato C., Freitas J.M., Habich D., Berg G. & Cernava T., "Healthy *Cannabis* Seeds Harness a Geno- and Chemotype Specific Microbial Signature" Slovenian Microbiome Network Symposium (SMNS) 2023
- [O] Lobato C., Freitas J.M., Habich D., Berg G. & Cernava T., "Exploring the microbiome of *Cannabis* Seeds Through Domestication and Breeding Stages" 2nd Young AMICI Symposium, 2023
- [P] Lobato C., Freitas J.M., Habich D., Berg G. & Cernava T., "Uncovering *Cannabis* Seed Endophytic Diversity and Composition Across Varieties" 16th Symposium on Bacterial Genetics and Ecology (BAGECO), 2023
- [J] Abdelfattah A., Tack A., Lobato C., Wassermann B. & Berg G., "From Seed to Seed: The Role of Microbial Inheritance in the Assembly of the Plant Microbiome" TIM, 2022
- [P] Lobato C., Cernava T. & Berg G., "Exploring the *Cannabis* Seed Microbiome" 10th ISS Congress & 3rd International Conference on Holobionts, 2022
- [P] Lobato C., Cernava T. & Berg G., "Exploring the *Cannabis* Seed Microbiome" miCROPe International Symposium 2022

- [P] Lobato C., Cuadros-Patiño K., Cernava T. & Berg G., "Characterization of the *Cannabis* Seed Microbiome for the Development of Improved Cultivation Strategies" 8th Theodor Escherich Symposium on Medical Microbiome Research (TES) & 4th AMICI Symposium, 2021
- [O] Lobato C., Cuadros-Patiño K., Cernava T. & Berg G., "Characterization of the *Cannabis* Seed Microbiome for the Development of Improved Cultivation Strategies" Virtual Cannabis Research Conference, 2021
- [J] Inácio V., Lobato C., Graça J. & Morais-Cecílio L., "Cork Cells in Cork Oak Periderms Undergo Programmed Cell Death and Proanthocyanidin Deposition" Tree Physiology, 2021
- [P] Inácio V., Lobato C., Graça J. & Morais-Cecílio L., "How cork cells differentiate: The Role of Programmed Cell Death and Proanthocyanidin Deposition in Cork Oak Periderm" PADiBa, 2019
- [T] Lobato C., "A Study of Alternative Initiation Codons in Candida cylindracea" RIA, 2016
- [P] Gamboa S., Lobato C., Oliveira H., Oom M.M. & Bahcevandziev K., "Flow Cytometry for the Assessment of Equine Sperm Chromatin" GTIE, 2015

### **SCIENCE OUTREACH**

Co-founder and organizing member

• PEC 282 - Growth, Cellular Renovation, and Reproduction: From Theory to Practice

[**(**)]

Engaging high school students through lectures and practical activities on recombinant DNA in bacteria, and in animal fertilization

## PROFESSIONAL DEVELOPMENT & SERVICE

Peer reviewer: Environmental Microbiome Journal	Sep - Dec 2024
• Teaching Academy: University Didactics 1 & 2 (Basic Module)	Jul - Sep 2022
Bacterial Metagenomics: from experimental design to data analysis	<i>May</i> 2021
Code Academy: Learn the Command Line Course	Feb 2021
Metagenomics applied to surveillance of pathogens and antimicrobial resistance	Feb 2020
Programming Initiation Course for Biologists	Jan 2019
• Theoretical-practical course in Cytogenetics and Genomics in Diagnosis and Research	Sep 2018

# **ADDITIONAL INFORMATION**

**Languages:** Portuguese (Native), English (Proficient), Spanish (Intermediate), German (A2) **Programming Languages:** R, Python (beginner) **Driver's license:** B1 **Hobbies:** Scientific illustration, Basketball