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 Research 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

Teaching Assistant

Environmental Microbiology (MOL.963UF)

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 • Institute of Biomedicine – University of Aveiro [♠] MSc., Molecular Biomedicine • Supervision: Prof. Dr. Gabriela Moura 	2014 - 2016 Aveiro, Portugal
 Dept. of Infectious Diseases and Microbiology – Univ. of Veterinary Internship - LLLP-Erasmus Supervision: Prof. MVDr. Vladimír Celer, Ph.D. 	Sciences Brno [May - Sep 2013 Brno, Czechia
• Higher School of Agriculture – Polytechnic University of Coimbra [2009 - 2013 Coimbra, Portugal
TEACHING EXPERIENCE	
• Environmental Microbiology (MOL.963UF) Guest Lecture on The Seed Microbiome	2023-2024 Institute of Environmental Biotechnology
• Laboratory Course Microbiome Analysis (MOL.972UF) Teaching Assistant	2023-2024 Institute of Environmental Biotechnology
• Laboratory Course Environmental Biotechnology (MOL.935UF) Teaching Assistant	2023-2024 Institute of Environmental Biotechnology
• Biodiversity and Applied Microbiology (MOL.731UF) Teaching Assistant	2021-2024 Institute of Environmental Biotechnology
• Biodiversity and Applied Microbiology (PLA.221UF) Teaching Assistant	2021-2024 Institute of Environmental Biotechnology
• Laboratory Course Biotechnology (CHE.177UF) Teaching Assistant	2021-2024 Institute of Environmental Biotechnology

2021-2022

Institute of Environmental Biotechnology

• 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

 TU Graz Lange Nacht der Forschung 2024 May 2024 Organization of the UBT stand at the Long Night of Research 2024 • 10th Theodor Escherich Symposium on Microbiome Research Jan 2024 Session chair • TU Graz Science Day 2023: New Worlds in Production Sep 2023 Science communication seminar: Healthy seed microbiome - healthy Cannabis plants • 9th Theodor Escherich Symposium on Microbiome Research Nov 2022 Session chair

 Seed Microbiome Working Group (SMWG) Co-founder and organizing member

2022 - ongoing **[**

 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 2014

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 (Experienced), Bash - Unix Shell (Experienced), Python (Beginner) Driver's license: B1 Hobbies: Scientific illustration, Basketball