

DERBAK Larbi

MICROBIAL BIOTECHNOLOGY

Ph.D. in Microbial Biotechnology specialized in bioactive compound discovery and characterization from natural sources. Experienced in phytochemical analysis (HPLC, LC-MS), molecular biology, and biological activity evaluation. Focused on sustainable valorization of resources for agri-food and biotechnological applications.

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EDUCATION

University of Mohamed Boudiaf, Msila, Algeria | 2021-2024

PhD of Microbial Biotechnology

informationNational Higher School of Biotechnology, Constantine, Algeria | 2015-2020

Engineer in Biotechnology/Jijel,

informationNational Higher School of Biotechnology, Constantine, Algeria | 2018-2020

Master of Microbial Biotechnology

RESEARCH EXPERIENCE

Centre de Recherche en Technologies Agro-Alimentaires, Bejaia, Algeria | Dec 2025- Present

Division d'Agro-Ecologie Alimentaire

University of Msila, Algeria | 2021- 2024

Department of science of nature and life

University of Palermo, Italy | Sept 2023- Oct 2023

Department of Chemistry

University of Igdir, Turkey | Dec 2022

Department of Biochemistry

Centre de Recherche en Biotechnologie , Constantine, Algeria | Jun 2022- Aug 2022

Division Biotechnologie et Santé

INTERNSHIP EXPERIENCE

National Sanitation Office, Jijel, Algeria | Jul 2020- Aug 2020

Trainee

Sonatrach, Illizi, Algeria | Mar 2019- Apr 2019

Trainee

Medical Analyses Laboratory. Dr Bekioua, Jijel, Algeria | Jul 2018- Aug 20218

Trainee

Algerian Center for Quality Control and Packaging, Jijel, Algeria | Mar 2018- Apr 20218

Trainee

FORMATION

- **Entrepreneurship Programme Economie Bleue - Expertise France Aug 2025, Tizi Ouzou, Algeria**
- **Entrepreneurship, INDJAZ El Jazair, 2019, Constantine, Algeria**
- **Entrepreneurship, Algeria 2.0, 2020, Constantine, Algeria**
- **StartUp Genius Up Project, April 25-27, 2019, Algeria**

SKILLS

- Microsoft office (Word, PowerPoint, Excel)
- Molecular docking
- Statistical analysis

Publications

- Derbak, L., Vaglica, A., Badalamenti, N., Porrello, A., Ilardi, V., Rebbas, K., ... & Bruno, M. (2025). The chemical composition of the essential oils of two Mediterranean species of Convolvulaceae: *Convolvulus althaeoides* subsp. *tenuissimus* collected in Sicily (Italy) and *Calystegia silvatica* collected in Algeria. *Natural Product Research*, 39(9), 2388-2397.
- Derbak, L., Badalamenti, N., Rebbas, K., Hamdi, B., & Bruno, M. (2025). The chemical composition of the aerial parts' essential oil of *Limonium lobatum* (L.) Chaz. growing wild in Algeria. *Natural Product Research*, 39(15), 4458-4465.
- Derbak, L., Bendif, H., Ayad, R., Rebbas, K., Demirtas, I., Yildiz, I., ... & Garzoli, S. (2025). Extraction Process and Phenolic Profiling of *Glebionis Coronaria*: Insight into Antioxidant and Cytotoxic Activities with ADME-Based Therapeutic Potential. *Food Analytical Methods*, 1-16.
- Badalamenti, N., Ilardi, V., Derbak, L., Rebbas, K., Bendif, H., & Bruno, M. (2025). The chemical investigation of North African *Salvia taraxacifolia* Coss. & Balansa and *Salvia lanigera* Poir. essential oils. *Natural Product Research*, 1-8.
- Roumaissa, L., Cherif, H. S., Derbak, L., Venskutonis, P. R., Demirtas, I., Mohammed M, A., ... & Garzoli, S. (2025). New Insights into Secondary Metabolite Potential in *Hypericum Perforatum*, UPLC-ESI-MS/MS to Novel Phytochemical Discovery with Bioactivity Assessment. *ChemistrySelect*, 10(40), e03590.
- Chahna, R., Bendif, H., Bouzana, A., Derbak, L., Haouame, I., Çam, D., ... & Garzoli, S. (2025). *Salvia lanigera* Poir. Extracts: Study of the Phytochemical Profiling via GC-MS and HPLC-DAD and Bioactivity with ADME Analysis. *Food Analytical Methods*, 18(10), 2258-2276.
- Rabhi, M. L., Derbak, L., Bendif, H., Boufahja, F., Abu-Elsaoud, A. M., & Garzoli, S. (2025). Seaweed-Derived Biostimulants for Sustainable Crop Production: A Review. *Journal of Biotechnology*.
- Roumaissa, L., Saida, C. H., Derbak, L., Raniya, N., Ibrahim, D., & Hamdi, B. (2025). Examination of essential oil composition and fatty acids of *Hypericum perforatum* growing wild in Algeria. *Brazilian Journal of Health Review*, 8(1), e76834-e76834.
- Derbak, L., Bendif, H., Ayad, R., Bensouici, C., Yildiz, İ., Demirtas, I., ... & Boufahja, F. (2024). Optimization of polyphenol extraction, phenolic profile by LC-ESI-MS/MS, antioxidant, anti-enzymatic, and cytotoxic activities of *Physalis acutifolia*. *Open Chemistry*, 22(1), 20240040.
- Ameer, S., Toumi, M., Bendif, H., Derbak, L., Yildiz, İ., Rebbas, K., ... & Garzoli, S. (2024). *Cistus libanotis* from Algeria: Phytochemical Analysis by GC/MS, HS-SPME-GC/MS, LC-MS/MS and its anticancer activity. *Journal of Food Composition and Analysis*, 106747.
- Larit, S., Touina, A., Bendif, H., Daoud, N., Derbak, L., & Smaili, T. (2022). Ethnopharmacological study of medicinal plants used for traditional cancer therapy in M'sila region (northeast of Algeria). *Journal of EcoAgriTourism*, 18(2).
- Bendif H, Touina A, Haoueme I, Derbak L, Benyahia R S, Deghiche B, ... & Khalfa H. (2023). Phytochemical and biological potential of Prickly pear (*Opuntia ficus-indica*) extracts from M'sila (Algeria). *Algerian journal of Biosciences*, 4(2), 071-076.