

CURRICULUM VITAE



Dr. BOURAGHDA Yehya

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Profile Summary

- Assistant Professor (equivalent to Maître de Conférences – Class B) in Process Engineering specializing in waste valorization and mushroom biotechnology. Focused on developing sustainable bioprocesses and biofertilizers that support the circular bioeconomy. Experienced in laboratory research, academic supervision, and practical implementation of environmental bioprocesses.

Current Position

- Lecturer – Assistant Professor (MCB)
University of 8 May 1945 – Guelma, Algeria
Dec 2024 – Present
- Deputy Head of Process Engineering Department

Research Interests

- Bioprocess Engineering
- Waste Valorization & Circular Bioeconomy
- Mushroom Biotechnology
- Vermicomposting & Biofertilizers

Education

- PhD in Process Engineering, 2017–2022, University of Badji Mokhtar – Annaba
Specialization: Chemical & Biotechnological Process Engineering
- Master in Process Engineering – Materials Engineering, 2013–2015
University of 8 May 1945 – Guelma /Ranked 3rd
- Bachelor in Process Engineering, 2012–2013
University of 8 May 1945 – Guelma

Publications

- Chitin–glucan complex from *Pleurotus ostreatus* mushroom: physicochemical characterization and comparison of extraction methods. *Waste and Biomass Valorization* (2021), 12(11): 6139–6153. <https://doi.org/10.1007/s12649-021-01449-3>
- The Value of Organic Waste: Making Nutrient-Rich Vermicompost for Sustainable Agriculture (Book Chapter).

Conference Presentations

- Comparative polysaccharide analysis in desert truffles – 5th ICBMC, Tunisia (2019)
- Infrared study of chitin isolation methods – 1st MEE Conference, Algeria (2020)
- Feasibility of fungal chitin extraction – Sustainable Development Symposium, Algeria (2020)
- Polysaccharides from *Pleurotus ostreatus* – 3rd MPM Symposium, Algeria (2020)
- Bio-vinegar From Dates: Experimental And Techno-Economic Study, Algeria (2025)
- Enhancing Radish Seed Germination And Growth Using Low-Voltage Electroculture: A Sustainable Agricultural Approach, Algeria (2025)
- Biological Treatment of Wastewater using *Agaricus bisporus* mushroom, Algeria (2025)
- Natural Products Recovery of Tomato Industrial Residues using Eco-friendly Methods, Algeria (2025)
- Biosynthesis and Characterisation of Iron Nanoparticles, Algeria (2025)
- Biosynthesised Iron Nanoparticles as Efficient Agents for Water Purification , Algeria (2025)
- Effect Of Grape Seed Type On The Catalytic Activity Of Synthesized Iron Or Iron Oxide Nanoparticles, Algeria (2025)
- Iron Oxide Nanoparticles Synthesized Using Grape Seed Extract As A Green Reducing And Stabilizing Agent, Algeria (2025)

Academic Service & Committees

- Organizing Committee Member - International Congress on Global Practice of Multidisciplinary Scientific Studies - XII (Jan 24–31, 2026-Havana, Cuba | Online & In-person Participation)

Supervision

- Main Supervisor of 2 Master students (2024–2025):
 - 1) Valorization of organic waste: compost and biogas production (Micro-enterprise Project/1275).
 - 2) Analysis and simulation of hydrogen production processes.

Teaching Experience

- Structure of Matter – L1 – 2 years
- General Chemistry Laboratory (TP Chimie 1) – L1 – 2 years

Scientific Works in Progress

- Organic Waste Valorization in Algeria and Turkey: Comparative Analysis with Germany (Review, with editor)
- From Campus Waste to Market-Ready Biofertilizer: Experiment and Socio-Economic Evaluation of Vermicomposting in an Algerian University (with editor)
- Circular Bioeconomy Approach for Producing Safe and Low-Cost Sheep Feed from University Food-Preparation Residues (Conference work)
- Organizing Committee Member: International Congress on Global Practice of Multidisciplinary Scientific Studies - XII January 24-31, 2026-Havana, Cuba Online & In-person Participation.

Laboratory + Software Skills

- SEM, FTIR, EDX, DRX, ATG, DTG, DSC.
- Biofertilizer & Vermicompost production.
- Mushroom production (*Pleurotus* and *Agaricus*).
- Extractions techniques.

Languages

- Arabic (Native)
- French (Intermediate)
- English (Intermediate)