

Dr. Olga Tsiftoglou

Short Biography

Researcher with a strong background in **Pharmacognosy** and **Natural Products Chemistry**, experienced in the **isolation, identification, and analysis** of bioactive secondary metabolites from plants. Skilled in the use of advanced analytical techniques (HPLC, GC-MS, NMR) and particularly interested in **plant biochemistry** and the **chemical ecology of natural products**.

Education

PhD in Pharmacognosy and Natural Products Chemistry

Aristotle University of Thessaloniki

Dissertation: “*Pharmacognostic study of plants belonging to the family Ranunculaceae*”

<https://www.didaktorika.gr/eadd/handle/10442/41192>

MSc in Natural Products Chemistry

Aristotle University of Thessaloniki

Thesis: “*Study of the plant Alyssum alyssoides (Brassicaceae, Cruciferae)*”

<http://ikee.lib.auth.gr/record/133849?ln=el>

BSc in Pharmacy

Aristotle University of Thessaloniki

BSc in Chemistry

University of Crete

Research Experience

Erasmus Internship – Department of Industrial and Biochemical Engineering

Technical University of Denmark (DTU)

Project: “*Metabolomic analysis of the fungus Aspergillus tubingensis (IBT 23488)*”

Supervisor: Prof. Ling Ding

Participation in Research Projects

- *Utilization of natural products from Greek biodiversity.*
- *Model breeding of chickens for high-quality meat production using aromatic and medicinal plants native to Epirus, without anticoccidial drugs.* Co-financed by the

European Union (European Regional Development Fund) and National Resources under the **Operational Program “Epirus 2014–2020.”*

- *“Effect of a novel dietary product on trout performance and fillet characteristics”* (funded by **PHYTOBIOTICS**).

My research focus involved **chemical analysis of aromatic plant samples** and their **phenolic constituents** used in fish feed, as well as **quantification in trout fillets**.

Analytical Techniques and Skills

- **Chromatography:** VLC, CC, TLC, pTLC, HPLC
 - **Spectrometry & Spectroscopy:** ESI-MS, GC-MS, NMR, UV-Vis
 - **Bioassays:** Antioxidant and anti-inflammatory activity
 - **Other skills:** Plant material extraction, isolation and identification of natural products, metabolomic analysis
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Research Interests

- Plant chemical ecology and plant–nematode interactions
 - Biosynthesis and function of secondary metabolites
 - Natural products chemistry and bioactivity
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Languages

- **Greek:** Native
- **English:** Excellent command
- **Italian:** Good knowledge