

Eleftheria Koutroumani

Curriculum Vitae

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EDUCATION AND PROFESSIONAL EXPERIENCE

06/2025 – Present

PhD Candidate, School of Applied Arts and Sustainable Design

Hellenic Open University – Laboratory of Technology and Policy of Energy and Environment

11/2025 – 05/2026

Research project participation

Hellenic Open University, Patras

Project: "Detection of components and metabolites in new tobacco products (IMENOT)"

Scientific Supervisor: Efthimios Zervas

- Chemical characterization of refill liquids and electronic cigarette aerosol emissions, and toxicological characterization of aerosol using models.
- Support for clinical monitoring of electronic cigarette users within the project framework.
- Support for the application of artificial intelligence and machine-learning methods within the project framework.

10/2022 – 03/2025

MSc in Medical Chemistry and Chemical Biology

School of Medicine – Department of Chemistry, University of Patras

Grade: 9.25/10.00, Excellent

MSc research thesis: "Synthesis of candidate inhibitors for diseases of the Central Nervous System"

Supervisor: Gerasimos Rassias, Associate Professor of Organic Chemistry

10/2017 – 10/2022

BSc in Chemistry

Department of Chemistry, University of Patras, Greece

Grade: 7.41/10.00, Very Good

Undergraduate experimental thesis: "Synthesis of inhibitors as candidate antiviral drugs for Dengue and Zika viruses"

Supervisor: Gerasimos Rassias, Associate Professor of Organic Chemistry

LABORATORY EXPERIENCE

05/2025 – Present

Hellenic Open University

Refill liquids (e-liquids):

- Preparation of e-liquid samples, including dilutions, handling of the PG/VG matrix, homogenization, and basic quality control (QC) where required.
- Support for the chemical characterization of e-liquid components and organization/documentation of analytical results within the research project.
- Aerosol/emission sampling using a smoking machine, including application/adjustment of puffing protocols and sample collection on appropriate media/collectors where applicable.
- Handling and preparation of samples from collectors/traps for subsequent chemical analysis, and recording/organization of sampling parameters.

10/2023 – 10/2024

University of Patras, Department of Chemistry

- Assistant laboratory staff for undergraduate laboratory courses: Experimental Organic Chemistry I / II.
- Co-supervision of one undergraduate student and two newly admitted MSc students in the research group of Dr. Gerasimos Rassias. Responsibilities included training in basic laboratory techniques, laboratory notebook writing, and support in thesis writing.

SKILLS AND LABORATORY COMPETENCES

- Experience in modern organic chemistry and analytical techniques: GC-MS/MS, GC-MS, HPLC, LC/MS, NMR.
- Ability to manage laboratory spaces and support maintenance of high-technology equipment.

- Specialization in risk assessment and ensuring safety in chemical processes.
- Software and tools: ChemDraw Ultra 12.0, MestReNova, Grapher 8.
- Computer certificate, Hellenic Institute of Certifications: Word Processing (Microsoft Office Word 2019/365), Spreadsheets (Microsoft Office Excel 2019/365), Internet applications and communications (Microsoft Internet Explorer 11, Microsoft Outlook 2019/365).
- Languages: Greek (native), English (C2), German (B1 overall, B2 level in speaking and writing).
- Driving licence: Category B.

PROFESSIONAL QUALIFICATIONS AND PERSONAL ATTRIBUTES

Reliability, diligence, organizational skills, adaptability, teamwork, problem-solving, integrity, and responsibility.

SEMINARS AND CONFERENCES

- Hybrid Workshop of the Hellenic Association for Aerosol Research (HAAR), NCSR “Demokritos”, Agia Paraskevi, Attica, Greece, 22 May 2026.
- 6th International Conference on Environmental Design and Health (ICED2025), Heraklion, Crete, Greece / Online, 1–2 November 2025.
- 23rd Panhellenic Conference of Chemistry, Athens, 25–28 September 2024.
- 9th Panhellenic Conference of Pharmaceutical Chemistry, Patras, 9–11 March 2023.
- Seminar on “Teaching and Pedagogical Competence” for fourth-year undergraduate students, University of Patras, 2022.
- Health and Safety Seminar, University of Patras, 2021.

MEMBERSHIPS

Association of Greek Chemists