

Curriculum Vitae

Professor Anastasia Detsi

Director of the Department of Chemical Sciences
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Dr Anastasia Detsi is a **Professor of Organic Chemistry** (since 2021) at the School of Chemical Engineering of the National Technical University of Athens. She obtained her BSc in Chemistry from the National and Kapodistrian University of Athens (1990) and her PhD in Organic Chemistry from the School of Chemical Engineering, NTUA (1998). During the period 1998-2005 she has worked as a postdoctoral researcher at the Van't Hoff Institute for Molecular Sciences of the University of Amsterdam, at the Institute of Chemical Biology of the National Hellenic Research Foundation and at the Laboratory of Organic Chemistry, School of Chemical Engineering NTUA.

She is currently the **Head of the Department of Chemical Sciences** and the **Director of the Laboratory of Organic Chemistry** at the School of Chemical Engineering, NTUA. Since October 2024 she has been elected as the **Chairman of the Supreme Chemical Council** (General Chemical State Laboratory of Greece).

Prof. Anastasia Detsi teaches the following courses at the School of Chemical Engineering: "Organic Chemistry" (mandatory, 4th semester), "Selected Topics in Bioorganic Chemistry and Chemistry of Natural Products" (elective, 5th semester), "Green Chemistry and Engineering" (elective, 8th semester) and "Pharmaceutical Chemistry and Technology" (elective 9th semester). During 2000-2008 she taught "General Chemistry" at the Hellenic Naval Academy. Since 2001 she is a Visiting Professor at the Mediterranean Agronomic Institute of Chania (MAICh), Department of Food Quality and Chemistry of Natural Products, Chania, Crete, Greece. International Postgraduate Program, where she teaches "Organic Chemistry".

The research group of Prof. A. Detsi consists currently of 2 postdoctoral researchers and 10 graduate students (PhD candidates), of various scientific backgrounds (Chemical Engineering, Chemistry, Pharmacy). The group's work is dedicated to innovative research based on Organic Chemistry and its applications on: **(1) Green Chemistry and Technology:** Synthesis and biodegradability assessment of new Ionic Liquids (ILs) and Deep Eutectic Solvents (DESSs), and their applications in organic synthesis, extraction of bioactive natural products from plants in combination with high-energy techniques (microwave, ultrasound) and preparation of biocompatible and biodegradable films and hydrogels with tailored mechanical properties. **(2) Green Nanotechnology:** application of the Principles of Green Chemistry and Green Engineering towards the development of processes such as encapsulation of bioactive molecules and plant extracts in biocompatible nanosystems using a variety of matrices such as biodegradable polymers (PLA, PLGA, PBS), cyclodextrins, novel lipid formulations, chitosan etc for applications in drug delivery systems, cosmetics and food additives. **(3) Medicinal Chemistry:** Design, synthesis, characterization and biological activity evaluation of novel bioactive compounds and natural product analogues.

Prof. A. Detsi has published 110 research articles in peer reviewed journals (h index 32, scitations 3523-according to SCOPUS, access on 11-2024) and more than 250 conference presentations. She has been the principal investigator or senior scientist in Greek and European research programs and has actively participated in 5 European COST Actions as Management Committee member. She has been a member of the Organizing and/or Scientific Committee of many National and International Conferences.