

Curriculum vitae – Prof. Fabio Sciubba

Current position: Associate Professor – Competition Sector 05/A1 (Botany), Scientific-Disciplinary Sector BIOS/01-D (Pharmaceutical Biology)

Affiliation: Department of Environmental Biology, University of Rome “La Sapienza”

Period: October 2024 – ongoing

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Scientific profile

The scientific activity of Prof. Fabio Sciubba falls within the field of Pharmaceutical Biology and Applied Botany, with particular attention to the use of advanced spectroscopic techniques of Nuclear Magnetic Resonance (HR-NMR) for the metabolomic characterization of complex biological systems and plant matrices of food, nutraceutical and pharmaceutical interest.

The integrated approach between the chemistry of secondary metabolites, plant biotechnology and NMR metabolomics allows the identification and quantification of bioactive molecules of interest for human and animal health, contributing to the development of sustainable strategies for the valorization of agri-food products and by-products according to the principles of the circular economy.

Educational and training activities

Since 2021 he has taught courses in degree courses in Pharmacy, Applied Pharmaceutical Sciences and Management of Gastronomic Sciences for Wellbeing, including:

- Pharmaceutical Biology
- Production, Transformation and Type of Herbal Products
- Animal and Plant Biology

He has also held lectures and seminars on advanced NMR techniques as part of level II Masters and Research Doctorates.

Since 2019 he has participated in training of doctoral students and post-docs in Chemistry and Medicinal Chemistry at the NMLab laboratory (La Sapienza), where he takes care of training in the use of high-field NMR spectrometers and the scientific supervision of experimental research.

Further academic activities

- Member of the Teaching Quality Commission of the Applied Pharmaceutical Sciences course (from 2025).
- Sapienza contact person for the University Startup ViVita (from November 2024).
- Member of the Teaching Commission of the Applied Pharmaceutical Sciences course (from 2024).
- Member of the scientific committee of conferences and study days on sustainability in the agri-food sector.

Main lines of research

The lines of research developed and coordinated by Dr. Sciubba are divided into three main directions:

1. NMR Metabolomics for the characterization of natural substances

Study and identification of metabolites of pharmacological, phytopharmaceutical and nutraceutical interest in plant extracts and food matrices. NMR analyses, integrated with multivariate statistical methods, allow the identification of biomarkers of quality and biological activity.

2. Valorization of agri-food products and by-products

Research activities aimed at the redevelopment of residues from vegetable and agro-industrial chains as sources of biomolecules with high added value, with potential applications in the phytosanitary, nutraceutical and cosmetic fields.

3. Development and optimization of advanced NMR methods

Implementation of multidimensional and multinuclear experimental approaches for the structural and quantitative analysis of complex systems, including foods, biological fluids and natural matrices.

Projects and collaborations

He has participated in numerous national and international projects, including:

- SAFE EAT (2018–2019) – Development of new plant foods functional to health well-being.
- INNOPAQ (2018–2020) – Sustainable innovation for quality agri-food production.
- ABASA (2018–2021) – “Green” technologies for the protection and fertilization of agri-food crops using biomolecules from oil waste.
- BIONUTRA (2020–2023) – Development of nutraceuticals from natural sources (PON “Research and Innovation”).
- B.I.C.Y. (2020–2023) – Biostimulants Increase Crops Yield.
- SEED PNR Project (2022–2024) – Improvement of the content of bioactive molecules in food plant matrices.

In 2025 he is Principal Investigator of the “Medie Attrezzature” 2024 project entitled “Liquid Nitrogen Condenser: efficiency improvement for NMR-Based Metabolomics laboratory (NMLab) Infrastructure” (amount: €54,000).

He is also Head of Unit in three BRIC 2022 projects (ID08, ID09, ID15), focused on issues of environmental toxicology, exposure to plant protection products and biomarkers of pollen allergenicity.

Scientific contribution and bibliometrics

The scientific production of the last ten years includes 136 articles in international journals indexed by Scopus, for a total of 2,384 citations and an H index = 22 (Scopus access: 4 September 2025).

Rome 19/01/2026

Lebo Sciubba