

Marzieh Rahmani Samani

PH.D. IN PHARMACEUTICAL
SCIENCES

Details

marzieh.rahmani@fmach.it

SKILLS

Analytical chemistry

Phytochemistry

Natural compounds

Metabolomics

Biological activity

Extraction methods

Links

[LinkedIn](#)

[ORCID](#)

EDUCATION AND WORK EXPERIENCE

Ph.D. in Pharmaceutical Sciences, University of Salerno, Italy

2020 — 2024

Post Doc Fellow at Biotechnology of Natural Products lab, Edmund Mach Foundation

SEPTEMBER 2024 — PRESENT

Post Doc at Biological Pharmaceutical, University of Salerno

JUNE 2024 — AUGUST 2024

Sabbatical position at Biological Pharmaceutical, University of Salerno

2019 — 2020

Technical Skills

Analytical Instruments

HPLC-HRMS/MS, UPLC/QqQ-MS/MS, GC/MS, NMR Spectroscopy, HPLC.

Phytochemical investigation of medicinal and aromatic plants

Compound Isolation, Purification, Structure Elucidation of Natural Compound.

Metabolomics, targeted and untargeted

Phenolic Compounds, Polyphenols, Flavonoids, Terpenoids.

Method Development and Optimization.

Novel Extraction Methods

Biological activity

Conferences and Presentations

Phytochemistry for a Sustainable Future: Bridging Nature, Innovation, and Health. PSE Meeting 2026, Caserta, Italy

SEPTEMBER 2026

73rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Naples, Italy

SEPTEMBER 2025

Austrian Summit on Natural Products, Seefeld, Austria

MARCH 2025

4th MS-NatMedDay, Salerno, Italy

FEBRUARY 2024

1° Congresso intersocietà sui prodotti vegetali per la salute: Il ruolo delle piante medicinali nella medicina moderna, Padova, Italy

JUNE 2023

1° Internatinal school on Mass Spectrometry, Erice, Italy

SEPTEMBER 2022

MASSA 2022 conference, Catania. Italy

MAY 2021

MASSA 2020-VIP, Italy

JUNE 2021

Publications

Di Micco, S., Masullo, M., Marigliano, N., Colarusso, E., Samani, M. R., Schettino, A., Saviano, A., Maione, F., Piacente, S., & Bifulco, G. Anti-inflammatory activity of monoterpene phenol dimers from *Satureja bachtiarica*.

2026

ACS Omega, 11(37), 55272–55285. <https://doi.org/10.1021/acsomega.6c03194>

Samani, M. R., Cerulli, A., Serreli, G., Melis, M. P., Deiana, M., Masullo, M., Piacente, S. *Perovskia atriplicifolia* Benth (Russian Sage), a Source of Diterpenes Exerting Antioxidant Activity in Caco-2 Cells.

2025

Plants, 14(17), 2795. DOI: 10.3390/plants14172795

Polcaro, L. M., Samani, M. R., Piacente, S., Masullo, M. Development of a New Extraction Method for Pomegranate and Metabolite Profiling by a LC-MS and ¹H NMR Combined Approach.

2024

Foods, 13(10), 1429. DOI: 10.3390/foods13101429

Samani, M. R., Cerulli, A., Fratianni, F., Nazzaro, F., Piacente, S., Masullo, M. Validation of the traditional antimicrobial use of the Iranian medicinal plant *Thymus daenensis* Celak through phytochemical characterization of its bioactive constituents.

2024

Fitoterapia, 176, 106042. DOI: 10.1016/j.fitote.2024.106042

Samani, M. R., D'Urso, G., Nazzaro, F., Fratianni, F., Masullo, M., Piacente, S. Phytochemical Investigation and Biofilm-Inhibitory Activity of Bachtiari Savory (*Satureja bachtiarica* Bunge) Aerial Parts.

2023

Plants, 13(1), 67. DOI: 10.3390/plants13010067

Samani, M. R., D'Urso, G., Montoro, P., Pirbalouti, A. G., Piacente, S. Effects of bio-fertilizers on the production of specialized metabolites in *Salvia officinalis* L. leaves: An analytical approach based on LC-ESI/LTQ-Orbitrap/MS and multivariate data analysis.

2021

Journal of Pharmaceutical and Biomedical Analysis, 197, 113951. DOI: 10.1016/j.jpba.2021.113951

Samani, M. R., Pirbalouti, A. G., Moattar, F., Golparvar, A. R. L-Phenylalanine and bio-fertilizers interaction effects on growth, yield and chemical compositions and content of essential oil from the sage (*Salvia officinalis* L.) leaves.,

2019

Industrial crops and Products, 137, 1-8. DOI: 10.1016/j.indcrop.2019.05.019

Ghasemi Pirbalouti, A., Samani, M. R., Hashemi, M., Zeinali, H. Salicylic acid affects growth, essential oil and chemical compositions of thyme (*Thymus daenensis* Celak.) under reduced irrigation.

2014

Plant growth regulation, 72(3), 289-301. DOI 10.1007/s10725-013-9860-1

Professional Training

Conference on Medicinal Plants, Bolzano, Laimburg Research Center, Italy

OCTOBER 2025

**Seminar on Natural Compounds Using Advanced Omics Technologies,
Bolzano, NOI Tech Park, Italy**

JULY 2025

Workshop on Weed Management in MAPs Cultivation, Koplik, Albania

MAY 2025

First National School of NMR, University of Naples, Italy

FEBRUARY 2024 — FEBRUARY 2024

Metabolomics in Natural Product Research, Catania, Italy

SEPTEMBER 2023 — SEPTEMBER 2023

NMR GIDRM School – Basic Course, University of Turin, Italy

JULY 2023 — JULY 2023

MSomics 2022, University of Bologna, Italy

DECEMBER 2022

2nd HR-MS School, University of Salerno, Italy

DECEMBER 2023