

PERSONAL INFORMATION

Daniela De Vita



✉ daniela.devita@uniroma1.it

Sex Female | Date of birth 01/09/1977 | Nationality Italian

ACCADEMIC APPOINTMENTS

From 15/07/2022 to present	Associate professor (Pharmaceutical biology) at the Department of Environmental Biology, Sapienza University of Rome
From 15/07/2019 to 14/07/2022	Type B Fixed-term Researchers (tenure track) (Pharmaceutical biology) at the Department of Environmental Biology, Sapienza University of Rome
From 01/03/2016 to 30/04/2018	Post-Doc Research fellowship at the Department IQSC-USP, Sao Carlos (SP, Brazil) Design and synthesis of inhibitors of cruzain
From 01/06/2014 to 31/05/2015	Research fellowship at the Department of Chemistry and Technologies of the Drug, Sapienza University of Rome Design, synthesis, purification and characterization of new molecules in the field of pharmaceutical
From 02/05/2013 to 01/05/2014	Research fellowship at the Department of Chemistry and Technologies of the Drug, Sapienza University of Rome Design, synthesis, purification and characterization of new molecules in the field of pharmaceutical
From 01/10/2012 to 31/10/2012	Self-employed work assignments at the Department of Chemistry and Technologies of the Drug, Sapienza University of Rome
From 01/11/2011 to 30/11/2011	Self-employed work assignments at the Department of Chemistry and Technologies of the Drug, Sapienza University of Rome
From 01/03/2011 to 31/08/2011	Collaborated contract at the Department of Chemistry and Technologies of the Drug, Sapienza University of Rome
From 01/09/2010 to 28/02/2011	Collaborated contract at the Department of Chemistry and Technologies of the Drug, Sapienza University of Rome
From 02/04/2008 to 02/04/2009	Collaborated contract at the Department of Chemistry and Technologies of the Drug, Sapienza University of Rome

TEACHING EXPERIENCE

A.Y. 2025/2026	Teaching of Biology (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (6 CFU out of 9), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (3 CFU out of 3), Degree Program in Pharmacy, Sapienza University of Rome
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A.Y. 2024/2025	Teaching of Biology (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (6 CFU out of 9), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (3 CFU out of 3), Degree Program in Pharmacy, Sapienza University of Rome
A.Y. 2023/2024	Teaching of Biology (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (6 CFU), Degree Program in Pharmacy, Sapienza University of Rome
A.Y. 2022/2023	Teaching of Biology (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (6 CFU), Degree Program in Pharmacy, Sapienza University of Rome
A.Y. 2021/2022	Teaching of Pharmaceutical Botany (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (6 CFU), Degree Program in Pharmacy, Sapienza University of Rome
A.Y. 2020/2021	Teaching of Pharmaceutical Botany (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome Teaching of Pharmaceutical Botany (6 CFU), Degree Program in Pharmacy, Sapienza University of Rome
A.Y. 2019/2020	Teaching of Pharmaceutical Botany (9 CFU), Degree Program in Applied Pharmaceutical Sciences, Sapienza University of Rome
A.Y. 2012/2013	Teaching of General and Inorganic Chemistry, Dipartimento di Scienze Ecologiche e Biologiche (DEB), Università della Tuscia, Viterbo
A.Y. 2009/2010	Tutoring assignment of General and Inorganic Chemistry, Department of Basic and Applied Sciences for Engineering, Sapienza University of Rome

EDUCATION AND TRAINING

28/10/2008	PhD in Pharmaceutical sciences at the Department of Chemistry and Technologies of the Drug, Sapienza University of Rome ▪ Design, synthesis, purification and characterisation of organic compounds ▪ Assessment of in vitro cholinesterase inhibition by the Ellman method ▪ Evaluation of antioxidant activity by DPPH spectrophotometric method ▪ Chelation studies of pharmaceutical compounds with metal ions by spectrophotometric methods ▪ Molecular docking studies Thesis title: "4-Aminopyridine derivatives as cholinesterase inhibitors"
20/07/2004	Degree in Pharmaceutical Chemistry and Technology at Sapienza University of Rome Thesis title: "D-Cycloserine derivatives as potential nootropic agents" Final grade: 110/110 cum laude

RESEARCH FIELDS

Phytochemistry	Extraction and isolation of natural compounds from plant matrices. Phytochemical characterization of natural matrices by HPLC-PDA-ESI-MS/MS analysis. Qualitative and quantitative analyses by HPLC-PDA-ESI-MS/MS.
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Analysis of plant extract by 1D and 2D NMR.
Elucidation of chemical structures by NMR, IR, MS.
Method validation: calibration curves; limit of detection (LOD) and quantitation (LOQ); recovery test; matrix effect.

Pharmaceutical botany Assessment of *in vitro* enzyme inhibition by the spectrophotometric method of tyrosinase, collagenase and elastase inhibition assays.
Evaluation of antioxidant activity by DPPH spectrophotometric method.
Chelation studies of natural compounds with metal ions by spectrophotometric methods (titration curves, Job's plot).

ADDITIONAL INFORMATION

Publications

Period 2006-2025
98 publications (SCOPUS database)
H index = 25

Selected publication

Frezza, Claudio, Sciubba, Fabio, Serafini, Ilaria, Mastellone, Elisa, Scipione, Luigi, Di Matteo, Paola, Petrucci, Rita, De Vita, Daniela (2025). *A new isolation of vincamajine from Vinca difformis subsp. sardoa Stearn.* NATURAL PRODUCT RESEARCH, p. 1-5, ISSN: 1478-6419, doi: 10.1080/14786419.2025.2477219

Martina Bortolami, Dario La Montagna, Chiara Toniolo, Fabio Sciubba, Adriano Patriarca, Tiziana Moretti, Ilaria Serafini, Francesco Mura, Emma Cocco, Petr Maděra, Kay Van Damme, Stefania Garzoli, Luca Santi, Fabio Attorre, Daniela De Vita (2025). *Preliminary insights into the non-volatile constituents of Commiphora omifolia (Balf.f.) J.B. Gillett Oleogum resin from Socotra Island.* PLANTS, vol. 14, p. 1-14, ISSN: 2223-7747, doi: 10.3390/plants14192999

Lachowicz-Wiśniewska, Sabina, Ochmian, Ireneusz, Oszmiański, Jan, Wiśniewski, Rafał, Bernatek, Małgorzata, Rubiński, Paweł, De Vita, Daniela (2025). *Polyphenolic composition, mineral profile, and biological activities in different organs of alpine woundwort. Insights into antioxidant and enzyme inhibitory potential.* PHARMACEUTICALS, vol. 18, ISSN: 1424-8247, doi: 10.3390/ph18050674

Frezza, Claudio, Conti, Francesca, Bosi, Adele, Scipione, Luigi, Oszmiański, Jan, Lachowicz-Wiśniewska, Sabina, De Vita, Daniela (2025). *Phytochemical analysis on Stachys alpina L. different organs collected in Poland.* BIOCHEMICAL SYSTEMATICS AND ECOLOGY, vol. 122, ISSN: 0305-1978, doi: 10.1016/j.bse.2025.105049

La Montagna D., De Vita D., Frezza C., Garzoli S., Attorre F. (2025). *HS-SPME-GC/MS analysis of the volatile components of the resins of different Commiphora Jacq. Species collected in Socotra Island.* BIOCHEMICAL SYSTEMATICS AND ECOLOGY, vol. 120, p. 1-6, ISSN: 0305-1978, doi: 10.1016/j.bse.2025.104965

Majdoub, Olfa, Hamdaoui, Nourhene, Albishri, Saud, Boudaya, Mariem, Kallel, Choumous, Jamoussi, Kamel, Aouadi, Kaiss, De Vita, Daniela, Feki, Abdelfattah El, Kadri, Adel, Saoudi, Mongi (2025). *Evaluation of antioxidant, anti-inflammatory, anti-hemolytic, and enzyme inhibitory activities of polysaccharide derived from Opuntia stricta (Haw.) Haw. pulp and its effects on wound healing in diabetic rats.* WASTE AND BIOMASS VALORIZATION, ISSN: 1877-2641, doi: 10.1007/s12649-025-03006-8

Frezza C., Venditti A., Baldani C., Dal Bosco C., Mura F., Nicolosi R. M., Giampaoli O., Cianfaglione K., Sciubba F., De Vita D. (2024). *Phytochemical analysis and chemophenetic evaluation of Phlomis fruticosa L.* NATURAL PRODUCT RESEARCH, ISSN: 1478-6427, doi: 10.1080/14786419.2024.2335357

Frezza C., Fraioli D. R., Conti F., Nicolosi R. M., Scipione L., Serafini I., Petrucci R., Di Matteo P., Rocco D., Di Giacomo S., Di Sotto A., Bonincontro G., Simonetti G., Garzoli S., De Vita D., Foddai S. (2024). *Evaluation of the antifungal and antiproliferative properties of the lichen Rocella tinctoria DC. Extracts and main components.* PHARMACEUTICS, vol. 16, ISSN: 1999-4923, doi: 10.3390/pharmaceutics16030331

Daniela De Vita, Claudio Frezza, Fabio Sciubba, Chiara Toniolo, Camilla Badiali, Rita Petrucci, Martina Bortolami, Paola Di Matteo, Daniele Rocco, Annarita Stringaro, Marisa Colone, Andrea Maxia, Maria Teresa Petrucci, Mauro Serafini, Sebastiano Foddai (2023). *Phytochemical analysis and In vitro antileukemic activity of alkaloid-enriched extracts from Vinca sardoa (Steud.) Pignatti.* MOLECULES, vol. 28, p. 1-10, ISSN: 1420-3049, doi: 10.3390/molecules28155639

Frezza, Claudio, Sciubba, Fabio, Giampaoli, Ottavia, De Salvador, Flavio Roberto, Lucarini, Massimo, Engel, Petra, Patriarca, Adriano, Spagnoli, Mariangela, Gianferri, Raffaella, Delfini, Maurizio, Di Cocco, Maria Enrica, De Vita, Daniela (2023). *Comparison of the metabolic profile of pecan nuts cultivars [Carya illinoensis (Wangenh.) K. Koch] by NMR spectroscopy.* NATURAL PRODUCT RESEARCH, ISSN: 1478-6427, doi: 10.1080/14786419.2023.2275738

Valentina Noemi Madia, Walter Toscanelli, Daniela De Vita, Marta De Angelis, Antonella Messore, Davide

Ialongo, Luigi Scipione, Valeria Tudino, Felicia Diodata D'Auria, Roberto Di Santo, Stefania Garzoli, Annarita Stringaro, Marisa Colone, Magda Marchetti, Fabiana Superti, Lucia Nencioni, Roberta Costi (2022). *Ultrastructural damages to H1N1 influenza virus caused by vapor essential oils*. MOLECULES, vol. 27, p. 1-14, ISSN: 1420-3049, doi: 10.3390/molecules27123718

Amendola, G., Bocca, B., Picardo, V., Pelosi, P., Battistini, B., Ruggieri, F., Attard Barbini, D., De Vita, D., Madia, V. N., Messore, A., Di Santo, R., Costi, R. (2021). *Toxicological aspects of cannabinoid, pesticide and metal levels detected in light Cannabis inflorescences grown in Italy*. FOOD AND CHEMICAL TOXICOLOGY, vol. 156, ISSN: 0278-6915, doi: 10.1016/j.fct.2021.112447

De Vita, Daniela, Messore, Antonella, Toniolo, Chiara, Frezza, Claudio, Scipione, Luigi, Berte, Cinzia Margherita, Micera, Marco, Di Sarno, Veronica, Madia, Valentina Noemi, Pindinello, Ivano, Roscilli, Patrizia, Botto, Alfonso, Simonetti, Giovanna, Orekhova, Anastasia, Manfredini, Stefano, Costi, Roberta, Di Santo, Roberto (2021). *Towards a new application of amaranth seed oil as an agent against Candida albicans*. NATURAL PRODUCT RESEARCH, vol. 35, p. 4621-4626, ISSN: 1478-6419, doi: 10.1080/14786419.2019.1696335

Madia, Valentina Noemi, De Angelis, Marta, De Vita, Daniela, Messore, Antonella, De Leo, Alessandro, Ialongo, Davide, Tudino, Valeria, Saccoliti, Francesco, De Chiara, Giovanna, Garzoli, Stefania, Scipione, Luigi, Palamara, Anna Teresa, Di Santo, Roberto, Nencioni, Lucia, Costi, Roberta (2021). *Investigation of Commiphora myrrha (Nees) Engl. oil and its main components for antiviral activity*. PHARMACEUTICALS, vol. 14, ISSN: 1424-8247, doi: 10.3390/ph14030243

De Vita D., Madia V. N., Tudino V., Saccoliti F., De Leo A., Messore A., Roscilli P., Botto A., Pindinello I., Santilli G., Scipione L., Costi R., Di Santo R. (2019). *Comparison of different methods for the extraction of cannabinoids from cannabis*. NATURAL PRODUCT RESEARCH, p. 1-7, ISSN: 1478-6419, doi: 10.1080/14786419.2019.1601194

DE VITA, DANIELA, SIMONETTI, Giovanna, PANDOLFI, FABIANA, COSTI, Roberta, DI SANTO, Roberto, D'AURIA, Felicia Diodata, SCIPIONE, Luigi (2016). *Exploring the anti-biofilm activity of cinnamic acid derivatives in Candida albicans*. BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol. 26, p. 5931-5935, ISSN: 0960-894X, doi: 10.1016/j.bmcl.2016.10.091

Conferences Oral communications

- 73rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Naples 31 Aug-3 Sept 2025: *Phytochemical characterization of oleogum resins from Commiphora species of Socotra island*.
- Nanoinnovation2020, Rome 15-18 Sept 2020: *Bioactive Molecules from Plants: Extraction, Nanoencapsulation and Applications*.
- 114th Congress of the Italian Botanical Society (VI International Plant Science Conference) Padova, 4-7 Sept 2019: *Antifungal activity of amaranth seed extract in combination with known antifungal drugs*.
- NPCF8 New Prospective in Pharmaceutical Chemistry, Parma, 9-11 Giugno 2014 *Imidazole derivatives with in vitro antichagas activity*.
- XXII NMMC. Rome, 10-13 Settembre 2013 (session infectious diseases and drug resistance) *Imidazole derivatives with in vitro antichagas activity: synthesis, biological evaluation and docking studies*.
- Drug's day "Antitumoral drugs, orphan drugs and rare disease. Salerno (Italy) April 12 2013 *New imidazole derivatives invitro highly active vs T.cruzi" (Best poster selection)*.

Rome
01/01/2026

Signature



