

PERSONAL INFORMATION

MILENA LILLINA SORRENTI



📍 University of Pavia
Department of Drug Sciences
Viale Taramelli 12
27100 Pavia, Italy

☎ +39 382 987054

✉ milena.sorrenti@unipv.it

🌐 <https://unipv.unifind.cineca.it/resource/person/657651>

Sex Female | Date of birth 11/12/1967 | Nationality Italian
Associate professor

WORK EXPERIENCE

2021 – current	Associate Professor, academic discipline: CHIM/09 Applied Pharmaceutical Chemistry and Technology, Department of Drug Sciences, University of Pavia
2005-2021	Assistant professor, CHIM/09 Applied Pharmaceutical Chemistry and Technology, Department of Drug Sciences, University of Pavia
1998-2004	Technical Assistant, Department of Drug Sciences, University of Pavia Member of the committee of the Ph.D. course in Chemistry and Pharmaceutical Technology, Department of Drug Sciences, University of Pavia
2021 – current	Member of Joint student-teacher Committee, Department of Drug Sciences, University of Pavia
2021	Member of Joint student-teacher Committee, Department of Drug Sciences, University of Pavia
2020-2021	Member of Academic Senate, University of Pavia
2015-2018	Member of Academic Senate, University of Pavia
2010 – current	Member of the committee of Master course Preformulation, pharmaceutical development and drug control, University of Pavia, Level EQF: 8
2017 - current	Member of the committee of Master course cGMP compliance and validation in the pharmaceutical industry, Level EQF: 8

EDUCATION AND TRAINING

1999	Ph.D. degree in Biopharmaceutics and Pharmacokinetics at the University of Parma, Italy
1995	Postgraduate specialization degree in Industrial Pharmacy at the University of Pavia, Italy
1992	Qualified Pharmacist
1992	Degree in Pharmaceutical Chemistry and Technology at the University of Pavia, Italy

Skills acquired

Preformulation studies, solid-state characterization, cyclodextrins complexation, drug delivery, pharmaceutical technology

WORK ACTIVITIES**Organizational and management activities**

- 2019 - current** Member of ADRITELF (Associazione Docenti e Ricercatori Italiani di Tecnologia e Legislazione Farmaceutiche)
- 2018 – current** Member of Controlled Release Society Italian Chapter
- 2021 - current** Member of AFI Scientifica (Associazione Farmaceutici Industria)

Editorial activity

- Current** Member of Editorial Board as Review Editor for journal Frontiers in “Medical Technology - Nano-Based Drug Delivery”, open access (Electronic ISSN:2673-3129)
<https://www.frontiersin.org/journals/medical-technology/sections/nano-based-drug-delivery#editorial-board>
- Current** Member of Editorial Board as Topic Editor for journal Nanomanufacturing, open access MDPI (ISSN 2673-687X). First year published 2021.
https://www.mdpi.com/journal/Nanomanufacturing/topic_editors
- Current** Guest Editor of Special Issue "Co-Crystals as a Pharmaceutical Strategy for Altering API Physicochemical Properties" for journal Molecules, open access MDPI (ISSN 1420-3049).
https://www.mdpi.com/journal/molecules/special_issues/Co-crystals#editors
- Current** Guest Editor of Special Issue "New Frontiers in Cyclodextrin Technologies" for journal Pharmaceuticals, open access MDPI (ISSN 1424-8247).
https://www.mdpi.com/journal/pharmaceuticals/special_issues/Cyclodextrin_Tech
- Current** Reviewer for Pharmaceutics, Journal of Thermal Analysis and Calorimetry, Journal of Pharmaceutical and Biomedical Analysis, Journal of Pharmaceutical Sciences, Acta Crystallographica Section B, Journal of Inclusion Phenomena and Macrocyclic Chemistry, Molecules, Pharmaceutics, Pharmaceuticals, International Journal of Molecular Science

Invited presentations

- Chair of session 8 at the V Symposium of Young Researchers on Pharmaceutical Technology, Biotechnology and Regulatory Science, University of Szeged, Hungary, January 18-20 2023
- Invited Speaker to the V International Summer School on Cyclodextrins, Ascea, Italy, September 4-7 2022
- Chair of session “Cyclodextrins in Pharmaceutics” at the 1st International Electronic Conference on Pharmaceutics, <https://sciforum.net/conference/IECP2020>, December 1-15 2020
- Invited Speaker to the IV International Summer School on Cyclodextrins, Milano, Italy, June 10-12 2019
- Invited Speaker to the III International Summer School on Cyclodextrins, Asti, Italy, June 20–1 July 2016
- Invited Speaker to the First International Summer School on Cyclodextrins, Porto Conte, Italy, June 6-8 2010

PERSONAL SKILLS

- Mother tongue(s) Italian
- Other language(s) English
- Job-related skills Team working ability, team coordination ability
Use digital devices, communication applications, and networks to access and manage information

ADDITIONAL INFORMATION

Statement of Research Interests

Milena Lillina Sorrenti carries out her research activity in the field of applied pharmaceutical chemistry with particular interest in the chemical-physical characterization of the solid-state of pharmaceutical compounds, especially in the study of polymorphism, pseudopolymorphism, amorphism, isostructurality, crystalline structure of drugs and excipients. She has gained extensive experience in the design and characterization of binary drug systems with natural and derived cyclodextrins, as excipients for the complexation and solubility increase of poorly soluble and hydrophobic active ingredients. The activity is mainly related to a preformulative investigation of the chemical-physical characterization of drug-excipient compatibility and is aimed at supporting subsequent pharmaceutical formulation studies. In the early works, the interest focused on modified release formulations and mucosal or transmucosal delivery systems. More recently, the research in the preformulation field has focused on characterization studies of different nanostructured systems based on lipids or on natural, protein, and polysaccharide polymers. Several studies have been concerned with the characterization of vesicular systems (exosomes and microvesicles from mesenchymal stem cells). The research activity is mainly based on the use of thermoanalytical and spectroscopical techniques of pharmaceutical application (Differential Scanning Calorimetry, Thermogravimetric Analysis, Thermooptical Analysis, Fourier-transform Infrared spectroscopy).

Publications

total number of publications in peer-review journals: 77
total Impact Factor (IF) (average IF/paper): 234,8 (3,05)
total number of citations: 2137
H index (Scopus): 24

ORCID: <https://orcid.org/0000-0001-8249-5761>

Catenacci L., Sorrenti M., Milanese C., Valentino C., Vicatos A.I., Caira M.R., Bonferoni M.C.
An update on solid-state characterization of the polyphenol pterostilbene.
Journal of Drug Delivery Science and Technology, 2022, 71, 103331.
doi.10.1016/j.jddst.2022.103331

Catenacci L., Vicatos A.I., Sorrenti M., Bonferoni M.C., Caira M.R.
Native cyclodextrins as complexation agents for pterostilbene: Complex preparation and characterization in solution and in the solid state
Pharmaceutics, 2022, 14, 8 14, 8.
doi.org/10.3390/pharmaceutics14010008

Catenacci L., Sorrenti M., Perteghella S., Mandracchia D., Torre M.L., Trapani A., Milanese C., Tripodo G.
Combination of inulin and β -cyclodextrin properties for colon delivery of hydrophobic drugs.
International Journal of Pharmaceutics, 2020, 589, 119861.
doi.org/10.1016/j.ijpharm.2020.119861

Catenacci L., Sorrenti M., Bonferoni M.C., Hunt L., Caira M.R.
Inclusion of the phytoalexin trans-resveratrol in native cyclodextrins: A thermal, spectroscopic, and X-ray structural study.
Molecules, 2020, 25, 998.
doi.10.3390/molecules25040998

Pavia, January 19 2023

