

## PERSONAL INFORMATION

## MILENA LILLINA SORRENTI

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

☎ +39 382 987779

✉ [milena.sorrenti@unipv.it](mailto:milena.sorrenti@unipv.it)

🌐 <https://unipv.unifind.cineca.it/resource/person/657651>  
<https://www.linkedin.com/in/prof-milena-lillina-sorrenti-b50480303>

## WORK EXPERIENCE

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|----------------|---|
| 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<br>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

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|------|---|
| 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 SITELF (Società Italiana di Tecnologia e Legislazione Farmaceutiche) già ADRITELF (Associazione Docenti e Ricercatori Italiani di Tecnologia e Legislazione Farmaceutiche)
- 2018 - current** Member of CRS (Controlled Release Society) Italian Chapter
- 2021 - current** Member of AFI Scientifica (Associazione Farmaceutici Industria)
- 2022 - current** Member of CDTEC (Associazione Italiana Chimica e Tecnologia delle Ciclodestrine)

**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](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](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](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, Thermo-optical Analysis, Fourier-transform Infrared spectroscopy).

### Publications

total number of publications in peer-review journals: 85  
total number of citations: 2542  
H index (Scopus): 26

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

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