

PERSONAL INFORMATION

Giada Cernicchi

WORK EXPERIENCE

- 25/03/2024-31/07/2024 **Collaborative activities as tutor for students in the laboratories of Pharmaceutical Sciences**
Department of Pharmaceutical Sciences, Perugia (Italy)
Prof. Stefano Sabatini
- 09/01/2023-30/06/2023 **Internship abroad: "Design and synthesis of anti-infective compounds for *Mycobacterium tuberculosis* (Mtb) and *Plasmodium falciparum* (Fp)".** Helmholtz Institute for Pharmaceutical Research Saarland (HIPS), Saarbrücken (Germany)
Supervisor: Prof. Anna K. H. Hirsch
- 07/03/2022-01/06/2022 **Collaborative activities as tutor for students in the laboratories of Pharmaceutical Sciences**
Department of Pharmaceutical Sciences, Perugia (Italy)
Prof. Stefano Sabatini and Ornelio Rosati
- 1/05/2021-01/11/2021 **Fellow within the project "Tackling cellular prion protein as novel target in multiple sclerosis"**
Department of Medicine and Surgery, Perugia (Italy)
Tutor: Prof. Francesca Fallarino
- 1/12/2020-01/04/2021 **Fellow within the project "Design and synthesis of compounds with antinflavivirus and anti-coronavirus activity"**
Department of Pharmaceutical Sciences, Perugia (Italy)
Tutor: Prof. Giuseppe Manfroni
- 03/11/2019-15/10/2020 **Experimental Thesis on Medicinal Chemistry**
Optimization of pyridobenzothiazolones synthesis through multicomponent and sustainable approaches to obtain antinflavivirus compounds
Tutors: Prof. Giuseppe Manfroni and Dr. Tommaso Felicetti, University of Perugia (Italy)
- 17/06/2019-17/12/2019 **Professional Pharmacy Training**
Farmacia Luconi Dott. Mario SNC – Dott. Mario Luconi
Via Perugina, 151/b, 06024, Gubbio (PG, Italy)

EDUCATION AND TRAINING

- 01/11/2021-31/10/2024 **PhD student in PHARMACEUTICAL SCIENCES – XXXVII CYCLE**
University of Perugia, Department of Pharmaceutical Sciences (Italy)
Third year of the PhD program
Tutors: Prof. Violetta Cecchetti and Prof. Stefano Sabatini
- 21/06/2021 **License as Pharmacist**
Department of Pharmaceutical Sciences-University of Perugia (Italy)
Final mark: 60/60
- 15/10/2020 **Pharmacy Degree**
Department of Pharmaceutical Sciences-University of Perugia (Italy)
Final mark: 110/110 L
Title: "Optimization of pyridobenzothiazolones synthesis through multicomponent and sustainable approaches to obtain antinflavivirus compounds"
Supervisors: Prof. Giuseppe Manfroni and Dr. Tommaso Felicetti

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills with people from different countries gained through my experience in the laboratory

Organisational / managerial skills -Good organizational skills gained through the five years course of pharmacy degree and especially during the experimental thesis period: I'm able to independently organize an organic synthesis project, starting from the research of the starting products, through the determination of single reaction step until getting the final product.
 -Good team-leading skills: as a PhD student I'm able to manage my work in the laboratory, as well as, the work of the present students, respecting the set goals and the deadlines.

Job-related skills -Planning and optimization skills of small molecules (quinolones, quinolines, pyridobenzothiazole, quinazolines, benzothiazine) multistep synthetic route and one pot reactions, including the use of microwave and parallel synthesis for the preparation of new chemical entities.
 - Chemical characterization of synthesized compounds using different instrumental techniques such as NMR, IR, UV and purification of compounds using different separation methods (TLC, column chromatography, Reveleris Buchi, Combi Flash, HPLC/HRMS, distillation, crystallization).

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Basic user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

European Computer Driving Licence (ECDL)

- good command of office suite (presentation software, word processor, spread sheet)
 - excellent command of SciFinder, Chemdraw, ACDLabs and Mestre Nova.

Driving licence B

ADDITIONAL INFORMATION

Publications

- Cedraro Nicholas, Cannalire Rolando, Astolfi Andrea, Mangiaterra Gianmarco, Felicetti Tommaso, Vaiasicca Salvatore, Cernicchi Giada, Massari Serena, Manfroni Giuseppe, Tabarrini Oriana, Cecchetti Violetta, Barreca Maria Letizia, Biavasco Francesca, Sabatini Stefano "From Quinoline to Quinazoline-Based *S. aureus* NorA Efflux Pump Inhibitors by Coupling a Focused Scaffold Hopping Approach and a Pharmacophore Search", *ChemMedChem*, **2021**, 16, 1-17.
- Cernicchi Giada, Felicetti Tommaso, Sabatini Stefano "Microbial Efflux Pump Inhibitors: A Journey around Quinoline and Indole Derivatives" *Molecules* **2021**, 26(22), 6996.
- Maria Giulia Nizi, Leentje Persoons, Angela Corona, Tommaso Felicetti, Giada Cernicchi, Serena Massari, Giuseppe Manfroni, Laura Vangeel, Maria Letizia Barreca, Francesca Esposito, Dirk Jochmans, Jessica Milia, Violetta Cecchetti, Dominique Schols, Johan Neyts, Enzo Tramontano, Stefano Sabatini,* Steven De Jonghe, and Oriana Tabarrini "Discovery of 2-Phenylquinolines with Broad-Spectrum Anti- coronavirus Activity", *ACS Med. Chem. Lett.* **2022**, 13, 855–864.
- Tommaso Felicetti, Nicholas Cedraro, Andrea Astolfi, Giada Cernicchi, Gianmarco Mangiaterra, Salvatore Vaiasicca, Serena Massari, Giuseppe Manfroni, Maria Letizia Barreca, Oriana Tabarrini, Carla Vignaroli, Violetta Cecchetti, Francesca Biavasco, Stefano Sabatini "New C-6 functionalized quinoline NorA inhibitors strongly synergize with ciprofloxacin against planktonic and biofilm growing resistant *Staphylococcus aureus* strains" *European Journal of Medicinal Chemistry*, 241, (**2022**), 114656.
- Elisa Rampacci, Tommaso Felicetti, Giada Cernicchi, Valentina Stefanetti, Stefano Sabatini and Fabrizio Passamonti "Inhibition of *Staphylococcus pseudintermedius* efflux pumps by using *Staphylococcus aureus* NorA efflux pump inhibitors" *Antibiotics* **2023**, 12, 806;
- Giada Cernicchi, Elisa Rampacci, Serena Massari, Giuseppe Manfroni, Maria Letizia Barreca, Oriana Tabarrini, Violetta Cecchetti, Tommaso Felicetti, Mariagrazia Di Luca, Noemi Violeta Poma, Arianna Tavanti, Fabrizio Passamonti, Laura Rindi, Stefano Sabatini "Discovery of 2-phenylquinazolines as potent *Mycobacterium avium* efflux pump inhibitors able to synergize with clarithromycin against clinical isolate" *Arch. Pharm.* **2024**, e2400296;

Conferences

- Cernicchi G., Felicetti T., Cecchetti V., Rampacci, E., Rindi, L., Sabatini S. - P. Ehrlich Med.Chem.2024 Euro-PhD Network & COST action OneHealthdrugs, Rome, June 17th - 19th, 2024
- Cernicchi G., Felicetti T., Franzblau S. G., Sabatini S. - P. Ehrlich Med.Chem.2023, Thessaloniki, July 16th -18th, 2023.
- Cernicchi G., Felicetti T., Franzblau S. G., Sabatini S. - International Helmholtz Drug Discovery Conference, Braunschweig, May 15th-16th 2023.
- Cernicchi G., Felicetti T., Astolfi A., Vignaroli C., Cecchetti V., Sabatini S. - HIPS Symposium 2023, Saarbrücken, May 4th, 2023.
- Giada Cernicchi, Maria Giulia Nizi, Erika Primavera Leentje Persoons, Angela Corona, Enzo Tramontano, Steven De Jonghe, Violetta Cecchetti Stefano Sabatini, Oriana Tabarrini. - P. Ehrlich Med.Chem.2022, Barcelona July 14th -16th, 2022.
- Felicetti T.; Cernicchi G.; Astolfi A. Vignaroli C.; Cecchetti V.; Sabatini S. – TUMA, Perugia, September 1st – 2nd, 2022.
- Cernicchi Giada, Cedraro, Nicholas, Astolfi Andrea, Felicetti Tommaso, Barreca Maria Letizia, Cecchetti Violetta, Biavasco Francesca, and Sabatini Stefano. - HIPS Symposium, May 20th, 2021.
- Cernicchi Giada, Mangiaterra Gianmarco, Cedraro Nicholas, Felicetti Tommaso, Astolfi Andrea, Barreca Maria Letizia, Cecchetti Violetta, Biavasco Francesca, and Sabatini Stefano. - NPCF13, April 26th – 29th, 2021.

Poster and Oral Communication

- Cernicchi G., Felicetti T., Cecchetti V., Rampacci, E., Rindi, L., Sabatini S. "Potent 2-Phenyl-7-chloroquinazoline as new *Mycobacterium avium* Efflux Pump Inhibitors". P. Ehrlich Med.Chem.2024 Euro-PhD Network & COST action OneHealthdrugs, Rome, June 17th - 19th, 2024 (**ORAL COMMUNICATION**).
- Cernicchi G., Felicetti T., Franzblau S. G., Sabatini S. "3-Phenylquinolones as new antitubercular agents against drug resistant *Mtb* strains". P. Ehrlich Med.Chem.2023, Thessaloniki, July 16th -18th, 2023 (**ORAL COMMUNICATION**).
- Cernicchi G., Felicetti T., Franzblau S. G., Sabatini S. "3-phenylquinolone (3-PhQ) derivatives as new antitubercular agents endowed of activity against drug resistant *Mtb* strains". International Helmholtz Drug Discovery Conference, Braunschweig, May 15th-16th 2023 (**ORAL COMMUNICATION**).
- Cernicchi G., Felicetti T., Astolfi A., Vignaroli C., Cecchetti V., Sabatini S. "New quinoline NorA inhibitors potentiate the antibacterial and biofilm activities of ciprofloxacin against resistant *S. aureus* strains". HIPS Symposium 2023, Saarbrücken, May 4th, 2023 (**POSTER**).
- Nizi M.G., Persoons L., Corona A., Felicetti T., Cernicchi G., Massari S., Manfroni G., Vangeel L., Barreca M.L., Esposito F., Jochmans D., Milia J., Cecchetti V., Schols D., Neyts J., Tramontano E., Sabatini S., De Jonghe S., Tabarrini O. "From an in-house library of 2-Phenylquinolines to broad spectrum anti-coronavirus agents" XXVII National Meeting in Medicinal Chemistry, Bari, Palazzo Del Prete, September 11st-14th, 2022 (**POSTER**).
- Giada Cernicchi, Maria Giulia Nizi, Erika Primavera Leentje Persoons, Angela Corona, Enzo Tramontano, Steven De Jonghe, Violetta Cecchetti Stefano Sabatini, Oriana Tabarrini "2-Phenylquinolines as promising broad-spectrum anti-Coronaviruses agents" P. Ehrlich Med.Chem.2022, Barcelona July 14th -16th, 2022 (**FLASH POSTER PRESENTATION**).
- Felicetti T.; Cernicchi G.; Astolfi A. Vignaroli C.; Cecchetti V.; Sabatini S. "Enhancing the antibacterial and biofilm activities of ciprofloxacin against resistant *S. aureus* strains through functionalized quinolines inhibiting NorA", TUMA, Perugia, September 1st – 2nd, 2022 (**ORAL COMMUNICATION**).
- Cernicchi Giada, Cedrarò, Nicholas, Astolfi Andrea, Felicetti Tommaso, Barreca Maria Letizia, Cecchetti Violetta, Biavasco Francesca, and Sabatini Stefano "Identification of new and potent 2-arylquinazoline *S. aureus* NorA efflux pump inhibitors by a scaffold hopping approach" HIPS Symposium, Saarbrücken, May 20th, 2021 (**POSTER**).
- Cernicchi Giada, Mangiaterra Gianmarco, Cedrarò Nicholas, Felicetti Tommaso, Astolfi Andrea, Barreca Maria Letizia, Cecchetti Violetta, Biavasco Francesca, and Sabatini Stefano "Scaffold hopping approach to obtain new and potent *S. aureus* NorA efflux pump inhibitors" NPCF13, April 26th – 29th, 2021 (**POSTER**).

Thesis co-supervisor

- Student Marta Casciari, master degree in Pharmacy, A.A 2021-2022, experimental thesis title "STRUCTURE-ACTIVITY RELATIONSHIP INVESTIGATION ON ANTITUBERCULAR 3-PHENYLQUINOLONES" - Department of Pharmaceutical Sciences, University of Perugia
- Student Pasquale Donnantuoni, master degree in Pharmacy, A.A 2022-2023, experimental thesis title "3-FENILCHINOLONI ANTITUBERCOLARI: INDAGINE SULLA RELAZIONE STRUTTURA-ATTIVITÀ NELLA POSIZIONE N-1" - Department of Pharmaceutical Sciences, University of Perugia

Honours and awards

- Winner of degree award in memory of "Prof Massimo Allegrucci" – **2020**.
- Winner of "Best poster award" presented at HIPS symposium **2023**.

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003.

Luogo e Data

Firma
