Curriculum Vitae

Simona Collina

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WORK EXPERIENCE

2019 – ongoing	**Full Professor in Medicinal Chemistry** (SSD CHIM/08) Department of drug Sciences, University of Pavia Lecturing, research, project preparation and management.
2021-ongoing	**Local Coordinator of Paul Ehrlich MedChem Euro-PhD Network** Guide and organisation of the PhD Network@UniPV
2019 – ongoing	**Dean of five-year master's degree courses in Pharmacy and Industrial Pharmacy (LM13)** Coordination and Management of the Courses
2013 – ongoing	**Member of Teaching Staff of the PhD Course** in Chemical and Pharmaceutical Sciences and Industrial Innovation (ex PhD Course in Chemical and Pharmaceutical Sciences)
2013 – 2019	**Vice-dean of two-year master's degree course in Medical and Pharmaceutical Biotechnologies** Coordination of the Pharmaceutical curriculum
2006 – ongoing	Tutoring of PhD Students
2009 – ongoing	**Head of the MedChemLab**, Dept of Drug Sciences, University of Pavia Group coordination, and management
2009 – ongoing	**Coordinator of post-graduated Master Course in Drug Design and Development** Coordination and Management of the Courses- Networking activities.
2001 – 2019	**Associate Professor in Medicinal Chemistry** (SSD CHIM/08) Department of Drug Sciences, University of Pavia Lecturing, research, project preparation and management
1992 – 2001	**Assistant Professor in Medicinal Chemistry** (SSD CHIM/08), Faculty of Pharmacy, University of Pavia Lecturing, research
1989 – 1992	Researcher at the laboratory "Drug analysis development" of SPA (Società Prodotti Antibiotici) Milan

EDUCATION AND TRAINING

1989	graduation cum laude in Medicinal Chemistry and Pharmaceutical Technology, University of Pavia, Italy.

WORK ACTIVITIES

Editorial activity	Associate Editor of Chirality (Wiley), Member of the Editorial Board of Molecules (MDPI), Section of Medicinal Chemistry Guest Editor of Special Issues, Collections and Topics in MDPI journals (Special Issues in Pharmaceuticals, Separations, and Molecules)
Project Reviewer	External reviewer for University of Padova projects External reviewer for University of Trieste projects Member of "Virtual Panel review of the Science Foundation Ireland Career Development Award (CDA) Programme Call 2015 (SFI panel)." Science Foundation Ireland Member of Panel Reviewer of government agency of National Science Centre (Narodowe Centrum Nauki), Poland, Call 2018 Evaluation of "Vinci 2021" projects (Italo-French University/French-Italian University)

Cooperations

In the last twenty years, Collina has started several co-operation with international research groups, believing that the success of drug discovery process depends on the cross-connection between various areas of knowledge, to generate **active interdisciplinarity**. In such a way, specific knowledge to resolve the problem have been produced, as evidenced by her scientific production.

Moreover, Collina has gained research contracts with important Pharmaceutical Industries for the identification of biologically active compounds.

Patents

1) **Collina S.**, Rossi D., Marra A., Peviani M., Curti D. (2015). Use of arylalkanolamines as sigma-1 receptor antagonists. WO2015132733 A1; EP3113768A1; US20170015640
2) **Collina S.**, Rossi D., Linciano P., Rossino G., Listro R., Peviani M., Rossi S., Vigani B. (2021). Substituted vinyl piperazine-piperidine urea derivatives as anticancer agents. EP21201359

Both patents testify the ability to obtain protection for compounds useful to the treatment or prevention of a particular disease or condition.

Publications

total number of publications in peer-review journals: 170 (115 as corresponding Authors)
total number of citations: 2911
H index (Scopus): 29
ORCID: 0000-0002-2954-7558

PERSONAL SKILLS

Job-related skills

Coordination skills (time management, organization, teamwork, communication). Planning and organization of the MedChemLab team activities.
Skills in planning and writing scientific papers and proposals
Drug discovery, adopting different strategies (ligand-based, target-based or rational design) focused on biologically relevant, often underexplored targets. More in details, Collina research group possess
-skills in drug discovery process: design and synthesis of small molecules, peptides, and peptidomimetics and focus of their therapeutic application
-skills in preparation and analysis of chiral compounds and in studying the relationship between absolute configuration and biological activity. Efficient production of single enantiomers from small to large scale, throughout Drug Discovery (DD) programs, as well as efficient analytical methods for evaluating the enantiomeric excess and for determining the absolute configuration of homochiral compounds have become of great interest and a fundamental challenge for medicinal chemists.
-skills in Nature Aided Drug Discovery

Statement of Research Interests

Medicinal chemistry to
1) design, synthesize and identify high-quality hits and hit series
2) select the most promising series through focused structure–activity relationship studies.

Proven expertise in identifying and advancing small molecule drug candidates into preclinical studies. Modulators of targets involved in several pathologies (infectious diseases, cancer, neurodegeneration) have been identified. The inter-disciplinary approach is the driving force of the research activity, ensuring project advances through the stages of drug discovery. Over the years, more than 1500 molecules with drug-like properties have been prepared. Biological investigations are carried out with national and international collaborations.

Il sottoscritto, consapevole che – ai sensi dell'art. 76 del D.P.R. 445/2000 – le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali, dichiara che le informazioni rispondono a verità.

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Pavia, 2024, June 3rdt F.irmato da Simona Collina