

PERSONAL INFORMATION

Mattia Mori

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Sex Male | **Date of birth** 26/12/1979 | **Nationality** Italian

SCIENTIFIC QUALIFICATION

4 October 2022 – 4 October 2032

National Qualification (Abilitazione Scientifica Nazionale) as Full Professor in Medicinal Chemistry, sector 03/D1 (CHIMICA E TECNOLOGIE FARMACEUTICHE, TOSSICOLOGICHE E NUTRACEUTICO-ALIMENTARI)

31 March 2017 – 31 March 2023

National Qualification (Abilitazione Scientifica Nazionale) as Associate Professor in Medicinal Chemistry, sector 03/D1 (CHIMICA E TECNOLOGIE FARMACEUTICHE, TOSSICOLOGICHE E NUTRACEUTICO-ALIMENTARI)

2005 (1st session)

Qualified Pharmacist at the University of Florence

WORK EXPERIENCE

August 2021 - present

Associate Professor in Medicinal Chemistry (SSD 03/D1, CHIM08)

University of Siena – Department of Biotechnology, Chemistry and Pharmacy, via Aldo Moro 2, 53100 Siena, Italy

Business or sector Public university

August 2018 – July 2021

Senior Researcher (L. 240/2010 Art. 24 – b)

University of Siena – Department of Biotechnology, Chemistry and Pharmacy, via Aldo Moro 2, 53100 Siena, Italy

▪ Research title: "Design and optimization of small molecule inhibitors of non-canonical targets of HIV-1 and *Mycobacterium tuberculosis*, particularly oriented to overcome drug resistance

Business or sector Public university

November 2017 – July 2018

Researcher

IIT – Istituto Italiano di Tecnologia – Center for Life Nano Science of Rome (CLNS@Sapienza), viale Regina Elena 291, 00161 Roma – Italy.

▪ Research title: "Identification, optimization and development of small molecules as candidate therapeutics against cancers that depend from signaling pathways involved in proliferation and differentiation of cancer stem cells". Scientific Coordinator: professor Giancarlo RUOCCHI

Business or sector Research Institute

November 2012 – October 2017

Post-doc

IIT – Istituto Italiano di Tecnologia – Center for Life Nano Science of Rome (CLNS@Sapienza), viale Regina Elena 291, 00161 Roma – Italy.

- Research title: "Identification of novel drug candidates that target specifically the Hedgehog and Notch signalling pathways to be used in the treatment of brain tumors". Scientific Coordinator: professor Giancarlo RUOCCHI.

Business or sector Research Institute

September 2013 – August 2016

Post-doc

University of Siena – Department of Biotechnology, Chemistry & Pharmacy, viale A. Moro 2, 53019 Siena – Italy

- Research Contract to work at the FP7 project THINPAD (Targeting the HIV-1 Nucleocapsid Protein to fight Antiretroviral Drug Resistance) – Grant Agreement 601969. Previous active participation in writing and negotiation of the project proposal. Scientific coordinator: Prof. Maurizio BOTTA
- Role: Task Leader in WP2 (Hits selection and hits/leads optimization).

Business or sector Public university

November 2011 – October 2012

Post-doc

University of Roma – La Sapienza, Dipartimento di Chimica e Tecnologie del Farmaco, Piazzale Aldo Moro 5, 00185 Roma – Italy

- Research assistant (Assegno di Ricerca) in the group of prof. Bruno BOTTA, Dipartimento di Chimica e Tecnologie del Farmaco. Research title: "Identification of a Second Generation of Hedgehog Inhibitors through Virtual Library Design"

Business or sector Public university

October 2009 – October 2011

Post-doc

University of Roma – La Sapienza, Dipartimento di Chimica e Tecnologie del Farmaco, piazzale Aldo Moro 5, 00185 Roma – Italy

- Post-doctoral fellow in the laboratory of prof. Bruno BOTTA. Research title: "Targeting signaling pathways involved in stem cell self-renewal and differentiation: basic and translational aspects"

Business or sector Public university

January 2005 – December 2005

Junior Scientist

ProtEra Srl, viale delle Idee n.22, Scientific Campus of the University of Florence. Biotech Spin-off focused on Drug Discovery

- Discovery and optimization of matrix metalloproteinases (MMPs) inhibitors using in silico/in vitro approaches.

Business or sector SME

EDUCATION AND TRAINING

January 2006 – January 2009

International Ph.D degree in Structural Biology

CERM – Magnetic Resonance Center of the University of Florence, in collaboration with the University of Frankfurt and the University of Utrecht.

TUTOR: Prof. Ivano BERTINI

- Thesis title: Drug Design Approaches for the Identification of New Protein-Interacting Compounds

September 1998 – December 2004

Five-year degree (Laurea Specialistica a ciclo unico – classe 14S) in Chimica e Tecnologia Farmaceutiche (CTF)

University of Florence, Faculty of Pharmacy.

TUTOR: Prof. Cristina NATIVI; CO-TUTOR: Prof. Stefano MENICHETTI

- Thesis title: Synthesis and Reactivity of α,α' -dioxothione derivatives supported on solid phase
FINAL MARK: 110/110 *cum laude*

COMMITTEES & MEMBERSHIP

2024-present	Member of the American Chemical Society (ACS).
2020-present	Member of the Organizing Committee of the International Summer School on Natural Products (ISSNP).
2020-present	Member of The International Natural Product Sciences Taskforce (INPST).
2019-present	Member of the Organizing Committee of the "Advanced school on carbohydrate chemistry" http://www.chimica-dei-carboidrati.it/scuola-avanzata-di-chimica-dei-carboidrati- xvii-cscc-2020 .html
2019-present	Board member of the PhD School in Chemical and Pharmaceutical Sciences of the University of Siena
2018-present	Member of the Organizing Committee of the European Workshop in Drug Design (EWDD).
2018-2022	Management Committee substitute in COST Action CA18238 – European transdisciplinary networking platform for marine biotechnology.
2017-present	Member of the Italian Chemical Society (SCI), division of medicinal chemistry (chimica farmaceutica).
2016-2020	Management Committee Member in COST Action CA15138 – European Network of Multidisciplinary Research and Translation of Autophagy knowledge (TRANSAUTOPHAGY).
2015-2019	Management Committee Member in COST Action CM1407 – Challenging organic syntheses inspired by nature - from natural products chemistry to drug discovery.

SCIENTIFIC PUBLICATIONS & Editorial Activity

Prof. Mori is author of more than 160 scientific publications in peer-reviewed journals, 4 book chapter, 6 patent applications.
h-index = 33

Co-Editor of Current Pharmaceutical Design
EB member of journal in the medicinal chemistry and drug discovery field.
Guest Editor of 8 Special Issues

GRANTED PROJECTS (in the last 5 years)

Framework and year	HORIZON-MSCA-2022-PF-01
Title	"Druggability of G-quadruplexes, promising modulators for antimicrobial resistance (The G-Quadruplex ESKAPE)"
Role	PI – supervisor
Framework and year	Italian Ministry of Education and Research (MUR) – PRIN-PNRR-2022
Title	Screening and optimization of nature-inspired ligands to target microbial G-quadruplexes – G4MICRONAT, Project code: P2022BWS27_002
Role	Responsible of Research Unit
Framework and year	Italian Cystic Fibrosis Research Foundation FFC2022
Title	"Esculetin-derived peptides as novel therapeutic agents with antimicrobial and CFTR potentiator activities to address cystic fibrosis lung disease"
Role	Partner – responsible of research unit
Framework and year	Italian Ministry of Education and Research (MUR) – PRIN-2022
Title	Structural and functional insights into hCA/Gli1 multitarget inhibitors for efficient targeting of cancer cells and hypoxic niches, Project code: 2022CBRZH3

Role	Responsible of Research Unit
Framework and year	COST Association
Title	CA21145 - European Network for diagnosis and treatment of antibiotic-resistant bacterial infections (EURESTOP)
Role	Chair
Framework and year	Italian Cystic Fibrosis Research Foundation FFC2021
Title	“Pharmacological inhibition of colistin resistance in Gram-negative cystic fibrosis pathogens”
Role	Partner – responsible of research unit

AWARDS

2018 Nvidia GPU Grant

2018 Winner of the young medicinal chemist meeting in Italy and invited talk at the 5th EFMC Young Medicinal Chemistry Symposium (YMCS2018)

2018 Winner of the 2018 Award by the Medicinal Chemistry Division of the Italian Chemical Society

2015 ACS Medicinal Chemistry Letter Editor's choice mark for the paper entitled "*Exploring Oxidovanadium(IV) Complexes as YopH Inhibitors: Mechanism of Action and Modeling Studies*".

2015 ACS Medicinal Chemistry Letters Cover page for the paper entitled "*Exploring Oxidovanadium(IV) Complexes as YopH Inhibitors: Mechanism of Action and Modeling Studies*".

2010 EMBO fellowship to attend the EMBO practical course in Biomolecular Simulations, Pasteur Institute, Paris, France.

