

MATTEO MARI

Personal data:

Place and date of birth: Reggio Emilia (RE), 22.05.1996

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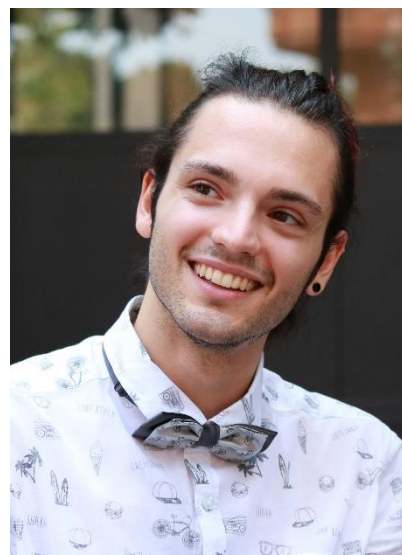
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EDUCATION

PhD 2021-today	Models and Methods for Material and Environmental Sciences Project: "Development of new pet radiotracers based on MCTs (Mono Carboxylate Transporters) inhibitors for cancer theranostics" University of Modena and Reggio Emilia Tutor: Prof. Erika Ferrari
Master of 2nd level 2021-2021	Forensic Analytical Methodologies University of Rome "Sapienza" Date of achievement: 29.10.2021 Thesis: "Fentanyl e derivati: metodologie di analisi e case reports" Supervisor: Prof. Stefano Materazzi Grade: 110/110
Master's Degree 2018-2020	Chemical Sciences (LM-54) University of Modena and Reggio Emilia Date of achievement: 11.12.2020 Thesis: "Pyrimidine derivatives of curcumin as potential targeting vector for theranostic purposes" Supervisor: Prof. Erika Ferrari Grade: 110/110 <i>summa cum laude</i>
Bachelor's Degree 2015-2018	Chemistry (L-27) University of Modena and Reggio Emilia Achievement date: 20.07.2018 Thesis: "Mesoporous bioactive glasses doped with zinc for tissue and bone regeneration" Supervisors: Prof. Gianluca Malavasi, Prof. Sandra Sánchez Salcedo (Universidad Complutense de Madrid) Grade: 110/110
Diploma	Scientific Bilingual Highschool (Italian/German)

2010-2015

Liceo Rinaldo Corso, Correggio (RE)
Grade: 96/100

RESEARCH EXPERIENCE

01.2021-06.2021

University Clinic of Ulm

Department of Nuclear Medicine

Radiopharmacy and research laboratories

Postgraduate internship experience carried out within the *Erasmus Traineeship project* in Ulm (Germany).

Experience in radio-pharmacy in quality control of radio-drugs such as:

[Ga-68]PSMA-11, [Ga-68]HA-DOTATATE, [Ga-68]Pentixafor, [C-11]PIB, [C-11]Metionine, [F-18]FDG, [F-18]PSMA, [Tc-99m]PSMA-I+S, [Lu-177]PSMA-I+T, [Lu-177]HA-DOTATATE.

Research experience at the preclinical research laboratory of the department of nuclear medicine of the university clinic of Ulm.

Pharmacokinetic studies on liposomes used as vectors for therapeutic peptides by radiolabeling with ^{89}Zr for positron emission tomography (PET) and by incorporating "perfluoro-15-crown-5-ether" for magnetic resonance imaging (MRI) on ^{19}F .

06.2020 - 12.2020

University of Modena and Reggio Emilia

Department of Chemical and Geological Sciences

Organic and inorganic synthesis laboratory

Internship in the research laboratory

Experience of curricular internship during the Master's degree course at the research group of Prof. Erika Ferrari.

Research project in the field of organic synthesis and coordination chemistry for pharmaceutical purposes, with the production of the thesis entitled:

"Pyrimidine derivatives of curcumin as potential targeting vector for theranostic purposes"

01.2018 - 06.2018

Universidad Complutense de Madrid

Department of Pharmacy

Biochemistry and bio-inorganic chemistry laboratory

Internship in the research laboratory

Experience of curricular internship during the Bachelor's degree course carried out as part of the *Erasmus + project* in Madrid (Spain) at the research group of Prof. Antonio J. Salinas.

Research project in the biomedical field with the production of the thesis entitled:

"Mesoporous bioactive glasses doped with zinc for tissue and bone regeneration"

CHEMICAL EXPERTISE

Material Characterization

- Nitrogen absorption and desorption isothermal analysis with a surface area and porosity analyser (BET)
- Attenuated Total Reflectance Infrared Spectroscopy (ATM FT-IR)
- X-ray powder diffraction analysis (XRD)

Organic Synthesis

- 1D and 2D $^1\text{H}/^{13}\text{C}$ NMR
- Flash Liquid Chromatography

- High Performance Liquid Chromatography coupled with Mass Spectrometry (HPLC-MS)
- Infrared Spectroscopy (FT-IR)

Complexation studies and thermodynamics

- UV-Vis spectroscopy
- 1D and 2D $^1\text{H}/^{13}\text{C}/^{195}\text{Pt}$ NMR

In vitro pre-clinical assays

- *In Vitro* stability studies through Simulated Plasma
- Cellular Cultures with biomaterials
- Aseptic preparation under Laminar-Flow

TEACHING ACTIVITY

- 2021 University of Modena and Reggio Emilia, Classroom Tutor**
Tutoring in Chemistry for the teaching of *General and Inorganic Chemistry* (30 hours) of the Degree Course in Pharmaceutical Chemistry and Technology
- 2020 University of Modena and Reggio Emilia, Classroom Tutor**
Tutoring in Chemistry for the teaching of *General and Inorganic Chemistry* (20 hours) of the Degree Course in Pharmaceutical Chemistry and Technology

PUBLICATIONS

(*corresponding author; presenting author)

- 2021 "Applications of radiolabelled curcumin and curcumin derivatives in medicinal chemistry "**
Matteo Mari, Debora Carrozza, Erika Ferrari, Mattia Asti *
International Journal of Molecular Sciences.
- 2021 "XXVII Congresso Nazionale della Società Chimica Italiana"**
"Amino-pyrimidine Curcumin derivative: metal ligand for theranostic applications."
Matteo Mari, Debora Carrozza, Michele Iori, Pier Cesare Capponi, Sara Rubagotti, Mattia Asti, Erika Ferrari (accepted as Poster Communication)
- 2021 "International Symposium on Thermodynamics of Metal Complexes ISMEC 2021"**
"Curcumin derivatives as Platinum (II) coordination system for colon-rectal cancer therapy"
Matteo Mari, Debora Carrozza, Michele Iori, Pier Cesare Capponi, Mattia Asti, Erika Ferrari. (accepted as Poster Communication)
- 2021 "XXVII Congresso Nazionale della Società Chimica Italiana"**
"Cerium-containing mesoporous silica systems with enzymatic-like activity for Curcumin delivery"
Debora Carrozza, Matteo Mari, Erika Ferrari, Gigliola Lusvardi, Gianluca Malavasi (accepted as Poster Communication)
- 2021 "International Symposium on Thermodynamics of Metal Complexes ISMEC 2021"**
"Curcumin-based β -diketo ligands for Ga^{3+} : on the way to develop new antineoplastic agents"
Debora Carrozza, Matteo Mari, Michele Iori, Pier Cesare Capponi, Sara Rubagotti, Mattia Asti, Erika Ferrari (accepted as Poster Communication)

ATTENDANCE OF CONGRESSES AND SCHOOLS

- 2021 "Formazione dei Formatori della Sicurezza 24 ore"**
Online course attended through the platform "*Progetto81: sicurezza sul lavoro*"
Test passed on 16.10.2021
- 2021 EXCEL SKILLS FOR BUSINESS: ESSENTIALS (10.2021)**
an online non-credit course authorized by Macquarie University (Sidney) and attended through the online platform Coursera.
- 2021 "XXVII Congresso Nazionale della Società Chimica Italiana" 14-23 September.**
Presentation of Poster with title: "*Amino-pyrimidine Curcumin derivative: metal ligand for theranostic applications*".
- 2021 "International Symposium on Thermodynamics of Metal Complexes ISMEC 2021"**
16-18 June, online conference.
Participation to conferences, *lectures*, and presentation of a poster entitled: "*Curcumin derivatives as Platinum (II) coordination system for colon-rectal cancer therapy*".
- 2020 INTRODUCTION TO FORENSIC SCIENCE (12.2020)**
an online non-credit course authorized by Nanyang Technological University, Singapore and attended through the online platform Coursera.
- 2018 INTRODUCTION TO RADIOCHEMISTRY: from basics to clinics (01.10.18-03.10.18)**
University of Modena and Reggio Emilia
Department of Chemical and Geological Sciences

AWARDS AND HONOURS

- 2021 Awarded with Conference Grant by the Division on Inorganic Chemistry of the Società Chimica Italiana** for the attendance of the XXVII National Congress of the Italian Chemical Society (14-23 September 2021)

LECTURER

- 2021 Literature Seminar:** Leading the discussion about the publication: "*Remote Loading of $^{64}\text{Cu}^{2+}$ into Liposomes without use of Ion Transport Enhancers*", DOI:10.1021/acsami.5b04612
Ulm University Hospital, 25.05.2021.

SEMINARS ATTENDANCE

- 2021 Essential radiochemistry for society (25.06.2021)**
Molecular Imaging and Translational Research: From Molecules to Man
Dr. Antero Abrunhosa (Institute for Nuclear Sciences Applied to Health – University of Coimbra)
Polimi, MOOCs to BRIDGE THE GAPS
- 2021 LUNCH SEMINARS (Every Friday from Jan to Jun 2021)**
Ulm University Hospital
Department of Nuclear Medicine
- 2021 Seminar series: CRC 1279 and beyond (22.02.2021)**
"Peptide-based radiotheranostics in oncology"
Prof. Melpomeni Fani, University Hospital Basel
Ulm University Hospital
Department of Nuclear Medicine

- 2018 Seminars on the preclinical development of drugs by Dr. Gino Villetti (16.11.2018)**
University of Modena and Reggio Emilia
Department of Life Sciences
- 2018 Medicinal Chemistry seminars with Dr. Sheraz Gul (09.11.2018)**
Assay development and High Throughput Screening.
Role of early toxicity studies in drug discovery.
The properties of a Lead and Clinical Candidate compound
University of Modena and Reggio Emilia
Department of Life Sciences

HABILITATION

- 2021** Professional Habilitation in Chemistry obtained at University of Modena and Reggio Emilia with exam on 16.06.2021.

LANGUAGES

Italian: native speaker
English: C1, TOEFL obtained in 2015, score: 96/120
Spanish: B2 DELE certified in 2019
German: B1

SOFTWARE

Microsoft Office: Good knowledge of Word, Excel, PowerPoint, and Outlook packages
Topspin: software for the visualization and analysis of NMR spectra
Matlab: basic knowledge of "PLS Toolbox" for chemometric analysis

TRANSVERSAL SKILLS

- Able to work in a team and share expertise.
- Great ability to plan and schedule work.
- Gladly available for written or oral communications.
- Good skills in leading bachelor or master students during their traineeships.

MEMBERSHIPS

2021- GICR (Gruppo Interdisciplinare di Chimica dei Radiofarmaci)
2021- SCI (Italian Chemical Society)

EXPERIENCES ABROAD

- | | |
|--------------------------|--|
| 01.2021 - 06.2021 | ERASMUS TRAINEESHIP
Postgraduate internship at "Universitätsklinikum Ulm"
Department of Nuclear Medicine
Ulm, Germania |
| 01.2018 - 06.2018 | ERASMUS +
Curricular internship at the Universidad Complutense de Madrid
Department of Pharmacy
Biochemistry and bio-inorganic chemistry laboratory
Madrid, Spain |
| 06.2014 - 07.2014 | LEONARDO MOBILITY PROJECT
Training internship at "Vsmo Tirus GmbH" |

Sales
Frankfurt am Main, Germany

06.2013

SUMMER SCHOOL

Period of summer school abroad at “The Bournemouth School of English”
Bournemouth, United Kingdom

CONTACTS FOR REFERENCES

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Correggio, 21.11.2021


Signature

Il sottoscritto dichiara che quanto indicato nella presente domanda corrisponde al vero ai sensi dell'art.46 e 47 D.P.R. 445/2000 ed esprime il proprio consenso affinché i dati personali forniti possano essere trattati nel rispetto del D.lgs n.196/03, e del Regolamento UE n. 2016/679, per gli adempimenti connessi alla presente procedura.