



Michelangelo Cocchioni

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WORK EXPERIENCE

Professional Training in Pharmacy

Farmacia Dr. Alessandro Rossi [01/09/2021 – 04/03/2022]

City: Perugia | Country: Italy

- Knowledge and organization of the various products present in pharmacy (drugs, special food, cosmetics, alternative drugs, medical devices..);
- Knowledge and use of the pharmacy information system;
- Preparation of galenic products ;
- Work at the pharmacy counter with the tutor (dispensation of drugs, shipping of medical prescriptions, book medical appointments..);
- Meetings with pharmaceutical reps.

EDUCATION AND TRAINING

High School Leaving Certificate

Liceo Scientifico Statale Galeazzo Alessi Perugia [09/2012 – 06/2017]

Address: Via R. D'Andreotto, 19, 06124 Perugia (Italy)

Master's Degree in Pharmacy

University of Perugia [06/10/2017 – 04/05/2023]

Address: Via del Liceo 1, 06123 Perugia (Italy) | **Field(s) of study:** Health and welfare: • Pharmacy | **Final grade:** 110 L | **Thesis:** N-Vinylation of azoles through a one-pot addition/elimination process.

Erasmus+ post-degree traineeship

Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences [12/05/2023 – 30/09/2023]

Address: Sienkiewicza 112, 90-363 Łódź, Łódź (Poland) | **Website:** <https://www.cbmm.lodz.pl/> | **Field(s) of study:** Bioorganic chemistry: Reactivity of C5-substituted 2-selenouridines under oxidative stress conditions

- New knowledge on epitranscriptomics and modified nucleosides of tRNA.
- Chemical synthesis of modified nucleosides, including the development and application of strategies to introduce specific functional groups or pre-existing modifying groups into nucleosides.
- New insights into the reactivity of selenouridines under oxidative stress conditions and the properties of oxidized 2-selenouridines in the presence of reducing agents.
- Methods: gel chromatography, HPLC, UV, mass spectrometry (LC-MS), NMR.
- Training in cell cultivation, DNA synthesis, deprotection and purification, protein crystallization and X-ray analysis.

PhD in Biomedical and Neuromotor Sciences

IRCCS-IRST (Meldola, FC), Università di Bologna - Department of Biomedical and Neuromotor Sciences [01/11/2023 – Current]

City: Bologna | Country: Italy | **Field(s) of study:** Cancer Immunotherapy

- Insights on the biology of dendritic cells, mononuclear cells, and T cells, and their interaction with cancer cells.

-Immunology: Knowledge of the immune system, its response to cancer, and the application of immunotherapy in cancer treatment.

-Next Generation Sequencing: Learning of cutting-edge sequencing technologies to analyze genetic information and identify potential targets for therapy.

-Nanotechnology: Expertise in the development and characterization of liposomal nanoparticles for drug delivery and other therapeutic applications.

-Clinical research: Experience in translating preclinical research findings into clinical trials, designing and implementing protocols, and assessing therapeutic efficacy.

-Collaborative networks: Building and maintaining collaborations with national and international partners to promote scientific and technological knowledge exchange.

-Personalized medicine: Understanding the principles and applications of personalized medicine, tailoring treatments to individual patients based on genetic and biological characteristics.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Spanish

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Google Drive / Social Media / Microsoft Word

CONFERENCES AND SEMINARS

[08/09/2022 – 10/09/2022] Łódź - Poland

WSeS-9 - 9th Workshop of the multidisciplinary network SeS Redox and Catalysis

Link: <http://www.chemia.uni.lodz.pl/HalChem-X/>

VOLUNTEERING

[07/2021 – 05/2022] Perugia

LGBTI Community Lab Civil service for an LGBTQIA+ Association.

PUBLICATIONS

[2023]

Vinylation of N-Heteroarenes through Addition/Elimination Reactions of Vinyl Selenones Martina Palomba, Italo Franco Coelho Dias, Michelangelo Cocchioni, Francesca Marini, Claudio Santi, Luana Bagnoli

A new protocol for the synthesis of N-vinyl azoles using vinyl selenones and azoles in the presence of potassium hydroxide was developed. This reaction proceeded under mild and transition metal-free conditions through an addition/elimination cascade process. Both aromatic and aliphatic vinyl selenones and various mono-, bi- and tri-cyclic azoles can be tolerated and give terminal N-vinyl azoles in moderate to high yields. A plausible mechanism is also proposed.

Molecules 2023, 28(16), 6026.

Link: <https://doi.org/10.3390/molecules28166026>

POSTER COMMUNICATIONS

[09/09/2022 – 09/09/2022]

Selenofunctionalization of alkenes and synthesis of N-vinyl azoles

M. Cocchioni, M. Radicchi, I.F. Coelho Dias, F. Marini, G. Perin, E.J. Lenardao, C. Santi, L. Bagnoli, "Selenofunctionalization of alkenes and synthesis of N-vinyl azoles", during the WSeS Redox and Catalysis 9th Workshop, 8-10 September 2022 in Łódź - Poland.

[08/09/2022 – 08/09/2022]

Halogens mediated Se-Se Bond activation and Se-Halogen Umpolung A straightful way to both electrophilic and nucleophilic selenium reagents

C. Santi, G. Pizzoli, F. D'Ottavio, M. Cocchioni, C. Scimmi, I. F. Coelho Dias, F. Mangiavacchi, D. B. Tiz, L. Sancineto, L. Bagnoli, O. Rosati, F. Marini., "Halogens mediated Se-Se Bond activation and Se-Halogen Umpolung A straightful way to both electrophilic and nucleophilic selenium reagents", during the HalChem X - 10th International Meeting on Halogen Chemistry, 5-8 September 2022, in Łódź - Poland

HONOURS AND AWARDS

[12/04/2024] Università degli Studi di Perugia

Premio di Laurea Carlo Pronestì Premio di laurea "Carlo Pronestì"

Dipartimento di Scienze Farmaceutiche, Università degli Studi di Perugia

Premio in memoria dello studente Carlo Pronestì, assegnato al termine del CdLM in Farmacia, a riconoscimento del merito accademico.

Link: https://dsf.unipg.it/files/bandi_e_selezioni/2023/dd_125-2023_bando_pronesti.pdf