EUROPEAN CURRICULUM VITAE FORMAT

PERSONAL INFORMATION

Name	**ELEUTERI MICHELA**
Address	
Telephone	
E-mail	
Nation	
Date of Birth	1995
ORCID	

RESEARCH EXPERIENCE

• Dates (from - to)	**12/01/2024 – 31/07/2024**
• Name ad address of the employer	University of Montpellier, France, Italy
• Type of business or sector	Institute Charles Gerhardt, Montpellier
• Occupation or position held	Time abroad during the PhD
• Main activities and responsibilities	Research Project: mechanochemical approaches for the synthesis of proteolysis targeting chimeras (PROTACs) and their linker moieties.
• Dates (from - to)	**01/06/2020 – 31/10/2021**
• Name ad address of the employer	University of Perugia, Perugia, Italy
• Type of business or sector	Department of Chemistry, Biology and Biotechnology
• Occupation or position held	*Post-lauream* fellowship in Organic Chemistry
• Main activities and responsibilities	Research Project: design, synthesis and physicochemical optimization of Proteolysis Targeting Chimeras endowed of antiviral activity.

EDUCATION AND TRAINING

• Dates (from - to)	**01/11/2021-present**
• Name and type of organisation providing education and training	PhD in Chemical Sciences Department of Chemistry, Biology and Biotechnology, University of Perugia
• Principal subjects/occupational skills covered	Research Project: "Design, synthesis and structural optimization of potential Proteolysis Targeting Chimeras endowed with *anti-SARS-CoV-2* activity."
• *Tutors*	Tutors: Prof. Gabriele Cruciani, Dr. Jenny Desantis
• Dates (from - to)	**09/2014 – 10/2019**
• Qualification achieved	Master's Degree in Pharmacy (110/110 with honours)
• Name and type of organisation providing education and training	Department of Pharmaceutical Sciences, University of Perugia
• Principal subjects/occupational skills covered	Experimental thesis in Medicinal Chemistry (from October 2018 to October 2019) title: "2,1-benzothiazine 2,2-dioxides and indole derivatives as anti-Flavivirus agents". Supervisor: Prof. Violetta Cecchetti, Prof. Giuseppe Manfroni Main Subjects: Medicinal Chemistry, Organic Chemistry, Pharmacology, Pharmacotherapy, Pharmaceutical technology
• Dates (from – to)	**07/2018 - 03/2019**
• Name and type of organisation providing education and training	Pharmacy Dott.ssa Mariella Farchioni S.N.C, Giano dell'Umbria (PG)

• Occupational skills covered	Practical Training in Pharmacy (900 hours)
• Dates (from – to)	**09/2009 - 06/2014**
• Name and type of organisation providing education and training	Classical Lyceum, "Sansi – Leonardi - Volta", Spoleto (PG)
• Qualification achieved	Diploma of Maturity (95/100) awarded by classical lyceum "Sansi-Leonardi-Volta", Spoleto (PG)

PROFESSIONAL QUALIFICATION

• Dates	**November 2019**
• Name and type of organisation providing education and training	Department of Pharmaceutical Sciences, University of Perugia, Perugia, Italy
• Qualification achieved	License to practice as pharmacist (244/250)

TUTOR ACTIVITY

• Dates (from – to)	**1/10/2023- 1/03/2024**
• Name and type of organisation providing education and training	Department of Chemistry, Biology and Biotechnology, University of Perugia
• Occupational skills covered	Collaborative activities as tutor for students in the laboratories of Organic Chemistry
• Dates (from – to)	**11/10/2022- 1/03/2023**
• Name and type of organisation providing education and training	Department of Chemistry, Biology and Biotechnology, University of Perugia
• Occupational skills covered	Collaborative activities as tutor for students in the laboratories of Organic Chemistry

PUBLICATIONS

1. Eleuteri M., Desantis J., Cruciani G., Germani R., Goracci L. Use of ionic liquids in amidation reactions for proteolysis targeting chimera synthesis. *Org. Biomol. Chem.* **2024**, doi.org/10.1039/D4OB00304G.
2. Desantis J., Bazzacco A., **Eleuteri M.**, Tuci S., Bianconi E., Macchiarulo A., Mercorelli B., Loregian A., Goracci L. Design, synthesis, and biological evaluation of first-in-class indomethacin-based PROTACs degrading SARS-CoV-2 main protease and with broad-spectrum antiviral activity. *Eur. J. Med. Chem.* **2024**, 268, 116202.
3. Castellani B., **Eleuteri M.**, Di Bona S., Cruciani G., Desantis J., Goracci L. VHL-Modified PROteolysis TArgeting Chimeras (PROTACs) as a Strategy to Evade Metabolic Degradation in In Vitro Applications. *J. Med. Chem.* **2023**, 13148-13171.
4. Desantis J., Mammoli A., **Eleuteri M.**, Coletti A., Croci F., Macchiarulo A., Goracci L. PROTACs bearing piperazine-containing linkers: which effect on their protonation state? *RSC Adv.* **2022**, 12, 21968-21977.
5. Mercorelli B., Desantis J., Celegato M., Bazzacco A., Siragusa L., Benedetti P., **Eleuteri M.**, Croci F., Cruciani G., Goracci L., Loregian A. Discovery of novel SARS-CoV-2 inhibitors targeting the main protease M^{pro} by virtual screenings and hit optimization. *Antiviral Res.* **2022**, 204, 105350.
6. Goracci L., Desantis J., Valeri A., Castellani B., **Eleuteri M.**, Cruciani G. Understanding the metabolism of Proteolysis Targeting Chimeras (PROTACs): the next step towards pharmaceutical applications. *J. Med. Chem.* **2020**, *63*, 11615-11638.

PATENTS

1. Desantis J., Roy J., **Eleuteri M.** US20230134817. Bi-functional compounds and methods for targeted ubiquitination of androgen receptor. May 4, **2023.**
2. Desantis J., Roy J., **Eleuteri M.** WO2023039604. Preparation of bi-functional compounds and methods for targeted ubiquitination of androgen receptor and androgen receptor splice variant-7. March 16, **2023.**
3. Desantis J., Roy J., **Eleuteri M.** WO2023039603. Preparation of bi-functional compounds and methods for targeted ubiquitination of androgen receptor and androgen receptor splice variant-7. March 16, **2023.**

4. Desantis J., Roy J., **Eleuteri M.** WO2023039602. Preparation of bi-functional compounds and methods for targeted ubiquitination of androgen receptor and androgen receptor splice variant-7. March 16, **2023**.
5. Desantis J., Roy J., **Eleuteri M.** WO2023039601. Preparation of bi-functional compounds and methods for targeted ubiquitination of androgen receptor and androgen receptor splice variant-7. March 16, **2023**.
6. Desantis J., Roy J., **Eleuteri M.** WO2021236695. Preparation of bi-functional compounds and methods for targeted ubiquitination of androgen receptor and androgen receptor splice variant-7. November 25, **2021**.

CONFERENCE AND CONGRESS CONTRIBUTIONS

1. **Eleuteri M.**, Castellani B., Cruciani G., Desantis J., Goracci L. DESIGN AND SYNTHESIS OF VHL-MODIFIED PROTACs AS A STRATEGY TO ELUDE METABOLIC DEGRADATION. XXVIII EFMC International Symposium on Medicinal Chemistry. Rome, Italy, September 1-5, **2024**.
2. **Eleuteri M.**, Desantis J., Cruciani G., Germani R., Goracci L. Use of ionic liquids in amidation reactions for PROTACs' synthesis. XXVIII Congresso Nazionale della Società Chimica Italiana. MILANO, Italy, 26th - 30th of August **2024**.
3. Desantis J., **Eleuteri M.**, Bazzacco A., Tuci S., Bianconi E., Macchiarulo A., Mercorelli B., Loregian A., Goracci L. IDENTIFICATION OF SARS-CoV-2 MAIN PROTEASE DEGRADERS ENDOWED WITH BROAD-SPECTRUM ANTI-CORONAVIRUS ACTIVITY. 58th International conference on medicinal chemistry, RICT 2024. Bordeaux, France, July 3-5, **2024**.
4. **Eleuteri M.**, Castellani B., Cruciani G., Desantis J., Goracci L. VHL-MODIFIED PROTEOLYSIS TARGETING CHIMERAS (PROTACs) AS A STRATEGY TO ELUDE METABOLIC DEGRADATION. 58th International conference on medicinal chemistry, RICT 2024. Bordeaux, France, July 3-5, **2024**.
5. Goracci L., Desantis J., **Eleuteri M.**, Di Bona S., Venturi A. Exploring the physicochemical properties of PROTACs for optimization. XLI CDCO, Roma, Settembre 10-14, **2023**.
6. Desantis J., Mercorelli B., **Eleuteri M.**, Celegato M., Tuci S., D'Angeli T., Cruciani G., Loregian A., Goracci L. Synthesis and structural investigation of 2,3-dihydro[1,3] thiazolo[2,3-*a*] isoindole-based peptidomimetics as novel anti-SARS-CoV-2 agents. XLI CDCO, Roma, Settembre 10-14, **2023**.
7. **Eleuteri M.**, Desantis J., Mercorelli B., Celegato M., Bazzacco A., Tuci S., Loregian A., Goracci L., Cruciani G. Design, synthesis, and in vitro investigation of indomethacin-based PROTACs as antiviral agents to target SARS-CoV-2. European School of Medicinal Chemistry (ESMEC), Urbino, July 2-6, **2023**. (Poster presentation).
8. **Eleuteri M.**, Desantis J., Mercorelli B., Celegato M., Bazzacco A., Tuci S., Loregian A., Goracci L., Cruciani G. Design and synthesis of indomethacin-based PROTACs as antiviral agents against SARS-CoV-2. Interregional Meeting of the Italian Chemical Society – Section Toscana, Umbria, Marche and Abruzzo (TUMA), Francavilla al Mare (CH), June 22-23, **2023.** (Oral communication).
9. Bazzacco A., Mercorelli B., Desantis J., Tuci S., Siragusa L., Benedetti P., **Eleuteri M.**, Croci F., Cruciani G., Goracci L., Loregian A. Identification and characterization of Main protease M^{pro} inhibitors and indomethacin-based PROTACs as anti- SARS-CoV-2 antiviral strategies. 7th National Congress of the Italian Society for Virology, Brescia, June 25-27, **2023**. (Poster presentation).
10. Bazzacco A., Mercorelli B., Desantis J., Celegato M., Siragusa L., Benedetti P., **Eleuteri M.**, Croci F., Cruciani G., Goracci L., Loregian A. Identification and characterization of novel SARS-CoV-2 inhibitors acting by different mechanisms. 8th European Congress of Virology, Gdansk Poland, May 4-7, **2023**. (Poster presentation).
11. Goracci L., **Desantis J.**, Mercorelli B., Celegato M., Bazzacco A., Siragusa L., Benedetti P., Eleuteri M., CrociF., Loregian A. Virtual screening and hit optimization strategies for discovery of novel SARS-CoV-2 inhibitors targeting the main protease. XL Convegno Nazionale della Divisione di Chimica Organica, (CDCO) OC-61, Palermo, Italy, September 11-15, **2022.** (Oral communication).
12. Desantis J., Mercorelli B., **Eleuteri M.**, Celegato M., Bazzacco A., Loregian A., Goracci L. Design, synthesis, and in vitro evaluation of anti-SARS-CoV-2 indomethacin derivatives exploiting PROTAC technology. XL Convegno Nazionale

della Divisione di Chimica Organica, (CDCO) OC-61, Palermo, Italy, September 11-15, **2022.** (Oral communication).

13. Desantis J., Mercorelli B., **Eleuteri M.**, Celegato M., Bazzacco A., Venturi A., Di Bona S., Loregian A., Goracci L. Design and synthesis of proteolysis targeting chimeras with antiviral activity against SARS-CoV-2. Interregional Meeting of the Italian Chemical Society – Section Toscana, Umbria, Marche and Abruzzo (TUMA), Perugia, September 1-2, **2022**. (Oral communication).
14. **Eleuteri M.**, Desantis J., Mercorelli B., Bazzacco A., Loregian A., Goracci L. Rational optimization and synthesis of potent SARS-CoV-2 main protease inhibitors. Interregional Meeting of the Italian Chemical Society – Section Toscana, Umbria, Marche and Abruzzo (TUMA), Perugia, September 1-2, **2022**. (Poster presentation).
15. **Eleuteri M.**, Desantis J., Mercorelli B., Bazzacco A., Loregian A., Goracci L. Identification of potent SARS-CoV-2 main protease inhibitors by exploiting fast-track rational design and hit optimization. VII SEQT Summer Scholl, Barcellona, July 19-21, **2022.** (Flash communication and poster presentation).
16. Desantis J., **Eleuteri M.**, Valeri A., Kim I.Y., Cruciani G. Design and synthesis of novel androgen receptor splice variant-7 PROTACs for the treatment of castration-resistant prostate cancer. 8th EFMC Young Medicinal Chemists' Symposium (EFMC-YMCS 2021), September 9-10, **2021**. (Poster presentation).
17. **Eleuteri M.**, Ortega-Carrasco E., Morettoni L., Zamora I., Fontaine F., Goracci L., Desantis J. Exploiting MassChemSite Reaction Tracking workflow for the detection and identification of by-products in Proteolysis Targeting Chimeras (PROTACs) synthesis. European Symposium on Organic Chemistry (ESOC 2021), OC22, July 5-6, **2021.** (Poster presentation).
18. Desantis J., **Eleuteri M.**, Valeri A., Kim I.Y., Cruciani G. Design and synthesis of novel androgen receptor Proteolysis Targeting Chimeras (PROTACs) for the treatment of lethal prostate cancer. European Symposium on Organic Chemistry (ESOC 2021), OC22, July 5-6, **2021.** (Oral communication).
19. Desantis J., **Eleuteri M.**, Valeri A., Kim I.Y., Cruciani G. Design, synthesis, and evaluation of small molecules Proteolysis Targeting Chimeras (PROTACs) to induce androgen receptor degradation. XVII Congresso Nazionale della Società Chimica Italiana (SCI2021). September 14-23, **2021.** (Oral communication).
20. Goracci L., Desantis J., Valeri A., Castellani B., **Eleuteri M.**, Cruciani G. Exploring PROTACs metabolism: a structure-activity relationship study. XVII Congresso Nazionale della Società Chimica Italiana (SCI2021). September 14-23, **2021.** (Oral communication).

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Listening — B2 LEVEL
- Reading — B2 LEVEL
- Writing — B2 LEVEL
- Spiking — B2 LEVEL

SOCIAL SKILLS AND COMPETENCES

Ability to adapt to workplaces, attitude to teamwork and good communication skills. Good expertise in the field of medicinal chemistry and drug discovery. Research focused on the design, synthesis, and optimization of small molecules and more complex molecules such as PROTACs with biological relevance as anticancers and antivirals.

Optimization of synthetic routes for the preparation and scale-up of compounds. Experience in flash chromatography also performed with high-performance automated flash systems (Biotage Selekt System). Experience in HPLC and GC-MS (reactions progress monitoring). Experience in NMR for the structural elucidation and characterization of the synthesized compounds. Good ability to carry out scientific searches by using the main interface databases (Scifinder, SciFinder^n, PubMed, PubChem). Good ability to use software: ChemBio Draw, ACD/LAB, MestReNova, Metasite (Molecular Discovery), MassChemSite (Molecular Discovery).

COMPUTER SKILLS	Very good knowledge of Microsoft Office (Word, Excel, PowerPoint) and OpenOffice tools along with different browsers (Internet Explorer, Mozilla Firefox, Google Chrome).
DRIVER'S LICENSE	B
AWARDS	
• Year	**2024**
• Description	Best poster prize. XXVIII EFMC International Symposium on Medicinal Chemistry. Rome, Italy, September 1-5, 2024.
• Year	**2021**
• Description	Award as student with excellent performance during studies in Pharmacy at the Department of Pharmaceutical Sciences, University of Perugia, Perugia, Italy.

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003 and art. 13 GDPR (Regulation (EU) 2016/679), I hereby authorize you to use and process my personal details contained in this document.

Perugia, 06/09/2024

Signature