Chiara Cabrelle

PhD Student

* July 22, 1993

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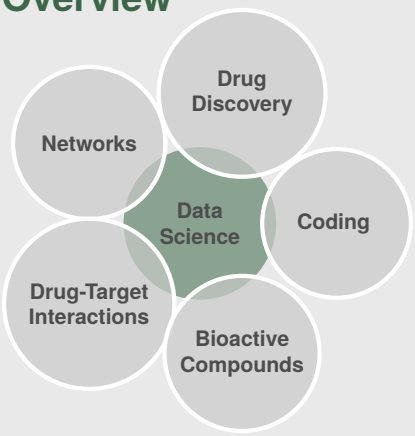
chiara-cabrelle

Overview



Technical Skills

Coding

R ●●●●○

Python ●●○○○

LaTeX ●○○○○

Software

Cytoscape•Schrödinger - Maestro, Canvas •MOE •VMD •Apache HTTP Server Project

Soft Skills

Adaptability

Self-management•Curiosity

Problem Solving

Persistence•Lateral Thinking

Interpersonal Skills

Empathy

Keywords

Chemical and Biological DBs

dplyr | tidyr | ggplot2 | igraph

Bioconductor | RDKit

Professional Interests

Cheminformatics•Bioinformatics •Network Science•Machine Learning•Coding

Languages

Italian ●●●●●

English ●●●○○

Publications

Menestrina, L., Cabrelle, C. and Recanatini, M., "COVIDrugNet: a network-based web tool to investigate the drugs currently in clinical trial to contrast COVID-19", *Sci Rep*, 11, 19426 (2021). https://doi.org/10.1038/s41598-021-98812-0

Recanatini, M. and Cabrelle, C., "Drug Research Meets Network Science: Where Are We?", *J. Med. Chem.*,63 (16), pp. 8653-8666 (2020). 10.1021/acs.jmedchem.9b01989

EDUCATION

2018, now — **Ph.D. in Biotechnological, Biocomputational, Pharmaceutical and Pharmacological Sciences | University of Bologna**

Thesis project: "Application of network-based approaches on drug discovery."

- Network-based approaches to explore chemical spaces of bioactive compounds.
- Predicting potential targets of bioactive compounds using a network-based prediction method.
- Exploring the landscape of the drugs currently in clinical trial to contrast COVID-19 through network analysis.

2012 - 2017 — **Single Cycle Master's Degree in Pharmaceutical Chemistry and Technology | equivalent to M.Sc. University of Padova**

Main topics: Medicinal and toxicological chemistry, Pharmaceutical technology, Pharmacology and pharmacotherapy, Drug design and development, Pre-clinical and clinical studies of new drugs, Technology of targeting and controlled release of drugs.

Thesis project | Molecular Modeling Section, University of Padova

"Investigation of cyclosporin A - cyclophilin A recognition pathway using a supervised molecular dynamics approach optimized for peptide - protein systems (pepSuMD)".

Curricular Internships:

- Farmacia Tombolato, Santa Giustina in Colle (PD)
- Hospital Pharmacy, Camposampiero (PD)

EXPERIENCE

2018 - 2019 — **Teaching Assistant | University of Bologna**

Course: 85297 - Bioinformatics, Module 2, Laboratory - B.Sc. in Genomics

Feb - May 2018 — **Internship | Farmacia Schiavetto, Vedelago (TV)**

Pharmacist

AWARDS

2021 — **Italfarmaco fellowship**

Scholarship for the participation to the 40th edition of the European School of Medicinal Chemistry ESMEC, Jun 28 - Jul 1 2021

Dec 6 2019 — **Best poster award**

released by Società Chimica Italiana, Sezione Emilia Romagna at the *XIX Giornata della Chimica dell'Emilia Romagna, Modena*

Poster title: "Network-based approaches to map structure activity relationship (SAR) into bioactive chemical spaces"