Alessandro Semeraro

- Born in Rome 28/01/1997
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Education:

❖ Collaborator SCITEC "Giulio Natta" CNR – Istituti Biologici – University of Rome La Cattolica   November 2022/Present

❖ PhD Student 38°cycle - University of Rome La Sapienza, Italy   November 2022/Present

❖ Qualification to the Profession of Pharmacist, State Examination, University of Pisa, Italy   July 2022

❖ MD Single Cycle, Pharmaceutical Chemistry and Technologies, University of Pisa, Italy   September 2016/January 2022

▪ 109/110

▪ Subjects: Organic and General Chemistry, Pharmaceutical and Toxicological Chemistry, Pharmacology and Toxicology, Quantitative and Qualitative Drugs Analysis, Biochemistry

▪ Thesis Title: "Analisi computazionale del sito recettoriale della proteina GPR55"

❖ High Scientific School, Ulisse Dini, Pisa, Italy   September 2011/July 2016

▪ 84/100

▪ Subjects: Math, Physics, Science, German

▪ Activities: English language course, preparations of the laboratories for scientific week

Experience:

❖ Thesis worker "Analisi computazionale del sito recettoriale della proteina GPR55" June 2022/January 2022

Experimental Thesis - Description: Thesis in the field of computational chemistry. Using the Linux operating system e programs for molecular docking and molecular dynamics simulations for the research of pharmacophoric points of the GPR55 protein through a "fragment-based" approach.

❖ Trainee in Hospital Pharmacy of A.O.U.P., Pisa   March 2021/June 2021

❖ Trainee in Pharmacy "Farmacia Raimo SNC", Pisa   October 2020/January 2021

Certifications:

❖ Corso di Formazione Teorico – Pratico di Statistica, University of Rome La Sapienza   April 2023

❖ Introduction to AI & ML Techniques in Drug Discovery, Udemy   March 2023

❖ Fundamentals of Enzyme Kinetics, University of Rome La Sapienza   February 2023

❖ La Scrittura Tecnico-Scientifica, University of Rome La Sapienza   February 2023

❖ Introduction to ML/DL and to Pytorch, University of Rome La Sapienza   November 2022

❖ Open Access delle pubblicazioni e dei dati della ricerca - Settori Bibliometrici, University of Rome La Sapienza   November 2022

❖ Summer School, Computer-Aided Drug Design, University of Pisa   20th/25th July 2020

▪ Description: Theoretical and practical lessons of all the main computational techniques used in drug

discovery, supplying a basic level of knowledge of this research field

❖ Training Course, PF 24 CFU, University of Pisa   January 2020/July 2020

▪ Description: Discipline anthropo-psycho-pedagogical and didactic methodologies and technologies for teaching

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Skills:

❖ Software Skills

▪ Programs: UCSF Chimera, Maestro Schrödinger, Amber 20, AutoDock, AutoGrid, AutoDockTools, ChemDraw, JSME, Avogadro, Maestro Schrödinger , Biovia Discovery Studio

▪ Algorithms: Alphafold

▪ Programming languages: Python (beginner)

▪ IDEs: VS Code, JupyterNotebook

▪ Database: ZINC20, ProteinDataBank, GPCRdb

❖ Operating Systems

▪ Microsoft

▪ Linux (shell)

❖ Generals

▪ Team Working

▪ Problem Solving

▪ Kind and respectful personality

▪ Responsible at work

❖ IT Skills

▪ MS Office 365 (Word, Excel, PowerPoint)

▪ Zoom, Teams

▪ Overleaf, Editor Latex

❖ Driving License

▪ BS

Languages:

❖ Italian: Native Language

❖ Spanish: Native Language

❖ English: B2 level

❖ German: Basic Level

Date: 11/04/2023   Signature: *Alessandro Semeraro*