



Stefano Russo

Date of birth: 28/01/1996 | **Nationality:** Italian | **Gender:** Male |

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Via Trieste 28 (ready to relocate), 98066, Patti, Italy

About me:

Omnia venenum sunt: nec sine veneno quicquam existit.

Dosis sola facit, ut venenum non fit.

WORK EXPERIENCE

23/03/2022 – CURRENT – Catania, Italy

RESEARCH FELLOW – UNIVERSITY OF CATANIA

Encapsulation of antimicrobial peptides in drug delivery systems, especially liposomes, and evaluation of their *in vitro* activity

12/2021 – 02/2022 – Catania, Italy

R&D TRAINEE – UNIVERSITY OF CATANIA

Innovative Drug Delivery

Designing, Formulation, Characterization and Drug Loading / Release Assessment of:

- Liposomes, PEGylated Liposomes and Nanoliposomes
- Solid Lipid Nanoparticles, Nanostructured Lipid Carriers, Stealth-SLN and Stealth-NLC

09/2021 – 11/2021 – Catania, Italy

PHARMACIST – FARMACIA GIUFFRIDA DR. MICHELE

10/2020 – 04/2021 – Catania, Italy

MASTER EXPERIMENTAL THESIS STUDENT

Cell Culture & Experimental Planning

- Treatments' Design
- Cell Culture and Passaging
- RNA Extraction and Purification
- qRT-PCR, MTT & ICC Assays
- SOP Writing

09/2019 – 01/2020 – Catania, Italy

R&D TRAINEE – UNIVERSITY OF CATANIA

Biotechnology & Organic Synthesis

- Computational Drug Design
- Multi-Step and One-Step Organic Synthesis
- FCC & HPLC Purification
- ^1H & ^{13}C NMR

EDUCATION AND TRAINING

06/2021 – Viale Andrea Doria 6, Catania, Italy

PROFESSIONAL QUALIFICATION AS PHARMACIST – University of Catania

Thesis: Toxicological evaluation of nicotine in human microglial cells (EQF 7)

Final Grade: 108/110 (GPA 4.0)

Specific Theoretical Skills Acquired in:

- Biology with Molecular Biology
- Organic Chemistry with Advanced Organic Chemistry
- Biochemistry with Applied Biochemistry Methods
- Spectroscopic Methods of Analysis
- Structure-Activity Relationship with Computational Chemistry
- Medicinal Chemistry
- Toxicology
- Pharmacology
- Biotechnology

Professional Skills Acquired in:

- Laboratory of Qualitative Analysis of Inorganic Ions

Anions and Cations Recognition and Isolation

- Glassware and basic tools
- pH measurement with litmus paper
- Bunsen Burner
- Filtration with filter paper
- Thin Layer Chromatography

- Laboratory of Quantitative Analysis

Extraction and quantitative analysis of substances

- Calibrated flask
- Gilson Micropipette
- Burette
- Centrifuge

- Galenic Laboratory

Execution of a galenic preparation following doctor's recipe, with previous validation of the latter

- Preparation of gels and creams with spatulas and glass plate
- Capsules preparation with hand operated capsule filler
- Preparation of powders mixed using mortar

- Computational Chemistry Personal Research

Interpretation and organization of chemocomputational predictive models for a first, rapid screening during the starting phase of Drug Discovery

- ChemSketch, Marvin and other programs for drawing chemical structures
- OpenBabel, open-source converter of .mol files
- LeDock, open-source software for molecular docking
- PyMol, 3D viewer of chemical structures, can display the results of molecular docking too
- Chimera, software for retrieving and displaying 2D/3D chemical structures
- SwissADME, AdmetLab and AdmetSar, sites for the evaluation of different ADMET properties of single molecules or molecular libraries
- DataWarrior, open-source software for organizing, displaying, filtering and comparing molecular libraries' data

- Laboratory of Recognition of Pharmacologically Active Molecules *Recognition, through chemical and physical properties analysis, of different pharmacologically active substances*

- Polarimeter
- Melting point determination
- Sand Bath Lead Acetate paper

- Laboratory of Biotechnology

Transformation of Escherichia Coli with plasmid araA-GFP/AmpR and subsequent expression by selected bacteria of Green Fluorescent Protein

- Preparation of bacterial culture plates with different agarose-based mediums
- Eppendorf and Loop technique
- Affinity chromatography on silica-based columns

- Laboratory of Retrosynthetic Analysis

Preparation of Phe-Phe dipeptide

- Vacuum Pump
- N2 pump for Inert atmosphere
- Rotavapor and equipment for simple distillation
- Liquid/Liquid Shake-Flask method with separating funnel

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	C1	C1	C1
SPANISH	A2	A2	A2	A2	A2

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

● DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Zotero | Computational Chemistry | Data Analysis | SOP Creation | Problem Solving | Advanced PC User | Logistics | Media Editing & Creation

● CERTIFICATES

12/2012

Certificate of Advanced English

CEFR C1 Level
N. 0038008390

05/2021 – CURRENT

ECDL Basic

Computer & Online Essentials, Word Processing
Skill Card N. IT 2503646

● DRIVING LICENSES

AM, A1, A2, B - Car and motorcycle owner

● ORGANISATIONAL SKILLS

Leadership

- The ability to visualize the general picture of the assignment and to recognize personal and other people's strengths and limits, as well as a peculiar attention to the smallest detail, targeted procedural and progressive application of the workflow and an intelligent and efficient sorting of the tasks, all make me a firm and charismatic leader.
- I headed two bibliographic research projects (one on CAR-T / CAR-NK cells and one that led to the study and development of an algorithm, through the open-source BioPPSY program, which had to predict if an input molecule could pass through the Blood Brain Barrier).
- I frequently had positions of responsibility in several laboratory experiences offered by the University.

Communication & Teamwork

- Excellent communicative skills with customers and people unaware of scientific subjects, supported by a vast, multidisciplinary and logical knowledge of the subject and an innate empathy.
- Rapidity in assimilating new concepts, understanding a command and communicating synthetically but effectively needs or alerts; this skill was acquired during the experiences in the laboratories and during the professional traineeship, but already fed by a pre-existing mental elasticity.
- Curiosity, culturally relevant extradisciplinary knowledge and talkability make me prone to speech, to confrontation and to problem-solving even outside of work: because of this I am an excellent teammate in both formal and informal situations.
- The strong sensitivity often leads me to help and support coworkers and friends who are living a bad moment or are crippled by anxiety; I am a natural point of reference indeed, and a trusted figure to confer with while in emotionally stressful situations.

● OTHER SKILLS

Other Skills

- Experience as a private teacher of pharmacology and pharmaceutical chemistry for university students.
- Fair manual skills with work tools, capable of performing minor repairs or replacements, makeshift solutions and modest restorations of furniture, pipes, locks, electric cables and electronic equipment.
- Experience as a secretary, as a proofreader for a local publishing house and as a private english, science and grammar teacher for middle and high school students.
- Predominantly self-taught multi-instrumentalist, with an album and several tracks published (with the group Happy Face Factory) - I am mainly an e-bass and seaboard player; moreover I have complete control over audio editing programs (Ableton Live, Izotope Suite) as much as to consider myself an expert in production, mixing, mastering and editing of audio tracks.
- Former agonistic tennis player, 4th italian category.
- Writer of poems: I participated in three national competitions, reaching the top 50 on third attempt.
- Passionate gamer, particularly interested in FPS, Action RPG and MetroidVania games.

I authorize the processing of personal data on the basis of art. 13 GDPR 679/16
