PhD student:

Noemi Cabella

Supervisor:

Prof. Giovanni Maga

Reviewer:

Prof. Simone Sabbioneda

Project title:

"*Development of a virus-free cell assay for the evaluation of viral protease inhibitors"*

NOEMI CABELLA

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EDUCATION

PhD, Genetics, Molecular and Cellular biology| University of Pavia (Italy)

2022 – present

Language of instruction and examination: English.

Project title: "*Development of a virus-free cell assay for the evaluation of viral protease inhibitors*".

MSc, Experimental and Applied Biology, curriculum Biomedical Molecular Sciences| University of Pavia (Italy)

2020 – 2022

Language of instruction and examination: Italian.

Thesis title: "*Development of a virus-free cell assay for the evaluation of M^{pro} protease inhibitors of SARS-CoV-2*".

BSc, Biological Sciences | University of Pavia (Italy)

2017- 2020

Language of instruction and examination: Italian.

Thesis title: "*Evaluation by ADP-Glo luminometric assay of new non-receptor kinase Src, Fyn and Abl inhibitors*".

RESEARCH EXPERIENCE

PhD | Institute of Molecular Genetics – National Research Council, Italy

2022- present

PhD's Research at the Molecular Virology and DNA Enzymology laboratory coordinated by Prof. Giovanni Maga.

Main research topic: Extension of the Master's Internship project in order to use the previously developed system for the evaluation of inhibitors against a wider range of proteases.

Research Intern | Institute of Molecular Genetics – National Research Council, Italy

2020 – 2022

Master's Internship at the Molecular Virology and DNA Enzymology laboratory coordinated by Prof. Giovanni Maga.

Main research topic: Development of a virus-free cell assay for the evaluation of M^{pro} protease inhibitors of SARS-CoV-2 virus based on the use of Nanoluc luciferase.

Research Intern | Institute of Molecular Genetics – National Research Council, Italy

2019 – 2020

Bachelor's internship at the Molecular Virology and DNA Enzymology laboratory coordinated by Prof. Giovanni Maga.

Main research topic: *In vitro* evaluation of a new panel of non-receptor kinases inhibitors by *in vitro* assays.

TECHNICAL SKILLS

Molecular Biology and Biochemistry methodologies: RNA and DNA extraction and purification, PCR, gel electrophoresis, bacterial culture, bacterial transformation and cloning, recombinant protein expression, MTS assays, inhibition assays, western blotting.

Cellular Biology methodologies: Culture of immortalized and tumorigenic mammalian cell lines, lipofectamine-mediated transfection of mammalian cells, pharmacological treatment on mammalian cell lines, evaluation of inhibitory molecules on mammalian cell lines, cellular proliferation and metabolic assays.

Biochemistry techniques: *in vitro* analysis of inhibitory molecules with luminometric and radioactive techniques

Bioinformatic tools: Protein and gene databases, basic knowledge of R and Python, Excel for biological data analysis, GraphPad Prism 7.0.

LANGUAGE SKILLS

Italian, mother tongue.

English, B2 level.

SOFT SKILLS

Optimal time management and organization skills, able to define priorities, goal–oriented work planning, problem-solving, decision-making autonomy, relationship building, teamworking, adaptability and flexibility, fast–learning, dependability, critical thinking, active listening, public speaking, enthusiasm and growth mindset, persistence, integrity.