



Ilaria Leoni

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Work: CRBA, Pad. 20, St. Orsola-Malpighi University Hospital Via Massarenti 9, 40138 Bologna (Italy)

WORK EXPERIENCE

PhD Student

Department of Life Quality Studies, University of Bologna [01/11/2022 – Current]

City: Bologna

Country: Italy

Identification of microRNA-based therapeutic targets for hepatocellular carcinoma treatment: study of molecular mechanisms involved in hypoxia and treatment response

Academic Tutor

Department of Life Quality Studies, University of Bologna [01/05/2023 – 31/05/2023]

City: Rimini

Country: Italy

Supervision of students during their laboratory experience in Applied Clinical Biochemistry course (Nutrition, Wellness, and Health Master's Programme)

Research Fellow

Department of Life Quality Studies, University of Bologna [01/06/2021 – 31/10/2022]

City: Bologna

Country: Italy

Study of microRNAs molecular mechanisms regulating hypoxia and treatment response in hepatocellular carcinoma

Graduate Laboratory Visitor

Department of Life Quality Studies, University of Bologna [12/04/2021 – 31/05/2021]

City: Bologna

Country: Italy

Insight into the main cellular and molecular biology techniques

Internship in Molecular and Cellular Pharmacology

Department of Pharmacy and Biotechnology, University of Bologna [01/02/2020 – 01/03/2021]

City: Bologna

Country: Italy

Study of ω -3 polyunsaturated fatty acids (EPA, DHA) as potential anticancer agents in a medulloblastoma cell line

Internship in Molecular and Cellular Biology

Department of Pharmacy and Biotechnology, University of Bologna [07/05/2018 – 15/06/2018]

City: Bologna

Country: Italy

Study of pyridostatin effects on non-B DNA structures G-Quadruplexes

EDUCATION AND TRAINING

Master's Degree in Pharmaceutical Biotechnology

University of Bologna [15/10/2018 – 19/03/2021]

City: Bologna

Country: Italy

Field(s) of study: Molecular and Cellular Pharmacology

Final grade: 110/110 cum laude

Thesis: Signaling pathways mediating apoptotic and mitogen effects of ω -3 PUFAs: role of PPAR γ activation

Bachelor Degree in Biotechnology

University of Bologna [15/10/2015 – 20/07/2018]

City: Bologna

Country: Italy

Field(s) of study: Molecular and Cellular Biology

Final grade: 110/110

Thesis: Study of pyridostatin effect in MCF-7 cell line

High School Diploma

Scientific High School "A. Orsini" [09/2010 – 06/2015]

City: Ascoli Piceno

Country: Italy

Final grade: 96/100

COURSES AND CERTIFICATES

Specific Safety and Health Training, Low Risk (Module 2)

[12/2022]

General Safety and Health Training (Module 1)

[12/2022]

Workshop: Experimental design for animal experiments

[07/2022]

FELASA, Experimental design working group

Learning Course: Basic elements for experimental animals use

[04/2022]

IRCSS Neuromed

Workshop: Refinement of surgical procedures in animal models

[11/2021]

CERC, St. Lucia Foundation

Webinar: Digital Ventilated Cages

[09/2021]

Tecniplast

Summer School: Chemical and genomic-based strategies for the discovery of novel drug targets

[06/2019]

Department of Pharmacy and Biotechnology, University of Bologna

PUBLICATIONS

[MiR-494 induces metabolic changes through G6pc targeting and modulates sorafenib response in hepatocellular carcinoma](#)

[2023]

Bergamini C, Leoni I, Rizzardi N, et al. J Exp Clin Cancer Res. 2023;42(1):145. 2023 Jun 10.

doi:10.1186/s13046-023-02718-w

[Hepatic Cancer Stem Cells: Molecular Mechanisms, Therapeutic Implications, and Circulating Biomarkers](#)

[2021]

Gramantieri, L et al. Cancers vol. 13,18 4550. 10 Sep. 2021, doi:10.3390/cancers13184550

CONFERENCES AND SEMINARS

EASL Liver Cancer Summit 2023

[Estoril, Portugal, 20/04/2023 – 22/04/2023]

Poster presentation entitled: "MiR-494 induces metabolic reprogramming through G6pc targeting and modulates sorafenib response in hepatocellular carcinoma"

62nd annual Meeting of the Italian Cancer Society: The exciting path from preclinical research to clinical application

[Venice, Italy, 16/11/2022 – 18/11/2022]

Poster presentation entitled: "MiR-30e-3p plays a dual role in hepatocellular carcinoma and predicts tumor escape to sorafenib treatment"

EASL Liver Cancer Summit 2022

[Online, 03/02/2022 – 04/02/2022]

Poster presentation entitled: "MiR-30e-3p plays a dual role in hepatocellular carcinoma and predicts sorafenib resistance"

NETWORKS AND MEMBERSHIPS

Member of European Association for the Study of the Liver (EASL)

[02/2022 – Current]

Member of Italian Cancer Society (SIC)

[11/2022 – Current]

TECHNICAL SKILLS

Laboratory techniques acquired after Master's Degree

Protein and nucleic acids extraction, real time PCR, western blot, cell culture, stable and transient transfection, cloning, reporter gene assays, plasmid mutagenesis, proliferation assay, viability and apoptosis assays, Incucyte use, PAS staining, flow cytometer basics, experimental animals manipulation (mice, rats), establishment of HCC patient-derived organoid cultures

Laboratory techniques acquired during Molecular and Cellular Pharmacology Internship

Cell culture, protein and nucleic acids extraction, western blot, wound healing migration assay, reporter gene assay, real time PCR, immunofluorescence

Laboratory techniques acquired during Molecular and Cellular Biology Internship

Cell culture, MTT viability assay, immunofluorescence

DIGITAL SKILLS

Microsoft Office (Ms Word, Excel, Access, Powerpoint, Project and Outlook) / GraphPad Prism, GraphPad Software Inc. / TScratch / AIDA Image Analyzer / ImageLab

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

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

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV and application for recruiting purposes.

Bologna, 12/06/2023



Ilaria Leoni