

Curriculum Vitae



PERSONAL DATA

Name **LEONE FRANCESCO**

Address

Telephone

Mobile Phone

E-mail

LinkedIn

Nationality

Place and date of birth

WORK EXPERIENCE

- **Date: 2021- 2024** **Internship at CNR-IGM of Pavia, institute of Molecular Genetics for Bachelor's and Master's Degree at Prof. Maga laboratory**

Main Tasks Purification and biochemical characterization of DDX5, looking for possible interactors, inhibiting molecules and novel functions and mechanisms in RNA-DNA hybrids resolution.

- **Date: 2022- today** **I work at the Teatro Frascini Foundation in Pavia as front of house staff**

- **Date: 2024-2024** **5 months of traineeship at the Maynooth University, Ireland at Prof. Schröder laboratory (ECTS = 25)**

Main Tasks To continue my thesis' project focusing on DDX3X activity on the mTOR gene translation regulation, with particular attention to cap-independent translation during ER stress and Sendai Virus infection.

● **Date: 2021- 2022** **Private tutoring in Mathematics and Physics for secondary school students (Scientific High School)**

● **Date: 2017-2018** **School-Work Alternation Program**

Promoter Pavia University Sport Center – Fencing Section

Main Tasks To give fencing lessons to children aged 7-9, following the guidelines of the Fencing Master. To accompany the children to sports competitions as a coach

EDUCATION AND TRAINING

● **Date 2022-2024** Master's degree in Molecular Biology and Genetics, curriculum Molecular and Digital Biology with final grade 109/110.
Thesis title: "Functional characterization of DEAD-box RNA helicases DDX5 and DDX3X in different RNA translation processes"

● **Date: 2019-2022** Bachelor's Degree in Biotechnologies with final grade of 108/110.
Thesis title: "Enzymatic characterization of the recombinant human RNA helicase DDX5 and research for inhibitors"

Name and type of institution Università degli Studi di Pavia

● **Date: 2019** High school diploma in Applied Sciences

Name and type of institution "G. Cardano" - Istituto Tecnico Industriale Statale e Liceo Scientifico delle Scienze Applicate - Pavia

● **Foreign languages** English: very good written; very good spoken

● **Computer skills** Good knowledge of the Windows operating system, Microsoft Office, PyMOL, WinCoot, IrfanView 64, Rstudio, Serial Cloner and Image J. Good knowledge of a bioinformatic tool known as *uORF-Tool* which uses *Conda* environment and *snakemake* workflow manager to analyse *BAM* files originated from the alignment of ribosome profiling data.

● **Sports & Hobbies** Gym, fencing, reading, cinema, music and travelling.

- **Others**
- Selected for the Under 17 and Under 20 National Fencing Team (from 2016 to 2019)
 - European Champion in the U17 team category (2017).
 - Selected for the World Team Championships category U17 (2017); Vice Italian Champion in the U17 category. (2017);
 - Participation in various U17 and U20 European Championships and World Cups
 - Participation in the European Under 23 circuit
 - Participation in the Italian Team Championship of A1

TECHNICAL SKILLS	Cloning techniques: PCR, DNA extraction. Electrophoretic techniques: SDS-PAGE, Western Blot (wet and semi-dry). Production of recombinant proteins from bacterial cells (<i>E. coli</i>). Transient transfections of eukaryotic cells (HEK293T). Assays for helicase, nuclease, ATPase activities. <i>In vitro</i> and in cells Pull-Down assays. Immunofluorescence. 5'UTR reporter assays using bicistronic and monocistronic plasmids.
CONFERENCE ACTIVITIES	<ul style="list-style-type: none"> - June, 2024. Biology Research Day, Maynooth University, Ireland. (Poster) Francesco Leone, Martina Schröder. DDX3X as a regulator of mTOR cap-independent translation - June, 2024. All-Ireland RNA Club conference, Trinity College, Dublin, Ireland. (Poster) Francesco Leone, Martina Schröder. DDX3X as a regulator of mTOR cap-independent translation - September, 2024. 7th IAAASS. Cagliari, Italy. (Poster) Maria Michela Pallotta, Laura Bavagnoli, Massimiliano Secchi, Camilla Lodola, Francesco Leone, Claudia Immacolata Trivisani, Fabrizio Manetti, Giovanni Maga. DDX5 an emerging treater for SARS-CoV-2 infection - September, 2024. INF-ACT MEETING 2024. Pavia, Italy. (Poster) Maria Michela Pallotta, Laura Bavagnoli, Massimiliano Secchi, Camilla Lodola, Francesco Leone, Claudia Immacolata Trivisani, Fabrizio Manetti, Giovanni Maga. Involvement of DEAD-Box Helicase 5 in SARS-CoV-2 infection
ADDITIONAL QUALIFICATIONS	<ul style="list-style-type: none"> - Level 2 fire-fighting course at the Pavia fire station

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