

# Samuele Pavesi

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**Date of birth** 24/03/2001 | **Nationality** Italian

## PhD PROGRAM

### PhD Student in Genetics, Molecular and Cellular Biology (GMCB)

University of Pavia, Institute of Molecular Genetics “Luigi Luca Cavalli-Sforza” – National Research Council (IGMCNR), DNA damage tolerance group directed by Dr. Simone Sabbioneda  
Oct 2025 – Ongoing

**Project:** Tracking Genome-wide Dynamics of DNA Polymerase  $\eta$

**Supervisors:** Dr. Simone Sabbioneda and Prof. Davide Sassera

**Co-Supervisor:** Prof. Francesco Lescai

## EDUCATION

### MASTER'S DEGREE IN MOLECULAR BIOLOGY AND GENETICS

#### CURRICULUM: MOLECULAR LIFE SCIENCES

University of Pavia, Dipartimento di Biologia e Biotecnologie “L. Spallanzani”, Pavia, Italy

Oct 2023 – Oct 2025

**Internship:** IGM-CNR, DNA damage tolerance group directed by Dr. Simone Sabbioneda

**Thesis:** Tracking Genome-wide Dynamics of DNA Polymerase  $\eta$  in Unchallenged and UV-damaged Cells

**Supervisor:** Prof. Claudia Binda; **Co-supervisors:** Dr. Simone Sabbioneda and Dr. Giulio Ticli

**Final Grade:** 110/110 Cum Laude

### LAUREA TRIENNALE IN BIOTECNOLOGIE

Università degli Studi di Pavia, Dipartimento di Biologia e Biotecnologie “L. Spallanzani”, Pavia, Italy

Oct 2020 – Oct 2023

**Internship:** IGM-CNR, DNA damage tolerance group directed by Dr. Simone Sabbioneda

**Thesis:** Ottimizzazione dell'immunoprecipitazione della cromatina per il tracciamento della DNA Polimerasi  $\eta$

**Supervisor:** Prof. Claudia Binda; **Co-supervisors:** Dr. Simone Sabbioneda and Dr. Giulio Ticli

**Final Grade:** 107/110

### DIPLOMA SCIENTIFICO DI SCUOLA SUPERIORE

Istituto d'Istruzione Superiore “A. Omodeo”, Mortara PV, Italy  
2015-2020

## LABORATORY SKILLS

### TECHNICAL SKILLS

- Mammalian cell cultures
- Protein extraction and quantification, SDS-PAGE and Western Blotting analysis
- Widefield and Confocal Microscopy
- Immunofluorescence staining and analysis
- Proximity Ligation Assay (PLA)

- Flow Cytometry and Cell-Cycle analysis
- DNA extraction and electrophoresis analysis on agarose gel
- PCR and RT-qPCR analysis
- Immunoprecipitation and Chromatin Immunoprecipitation (ChIP) experiments and analysis

### **BIOINFORMATIC SKILLS**

- Complete workflow in:
  - ChIP-seq (FastQC, Bowtie2, picard, SAMtools, BAMTools, BEDTools, deepTools, bedGraphToBigWig, MACS2, HOMER, R+packages)
  - RNA-seq (STAR, featureCounts, R+packages)
  - CRISPR-KO Library Droupout Screen (MAGeCK, CRISPRcleanR, DrugZ, BAGEL)
- Principles of Repli-seq
- Online Bioinformatics Tools (NCBI, UCSC, Galaxy, Ensembl, Uniprot, 4Dnucleome, IGV, g:Profiler, GitHub)
- Principles of Bioinformatics languages (R, Bash, Python)

### **OPERATING SYSTEMS**

- Windows, macOS, Linux (Ubuntu)

### **SOFTWARE PROFICIENCY**

- Microsoft Office Suite (Word, Excel, PowerPoint)
- Google Workspace (Docs, Sheets, Slides, Drive, Gmail)

### **MOTHER TONGUE**

Italian

### **OTHER LANGUAGE**

English: B2 QCER

**REFERENCES** | Dr. **SIMONE SABBIONEDA**  
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Dr. **SILVIA BIONE**  
silvia.bione@igm.cnr.it