

LORENZO SOLA
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PERSONAL INFORMATION:

Sola Lorenzo
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EDUCATION:

Phd student, laboratory of Molecular and Cellular Biology Department of Biology and Biotechnology “Lazzaro Spallanzani”	Pavia, Italy
University of Pavia MSc, 110/110 cum laude, Molecular Biology and Genetics 2020	Pavia, Italy
University of Piemonte Orientale “Amedeo Avogadro” BSc, 110/110, Biological Science 2018	Alessandria, Italy

DISSERTATIONS:

“Telomerase RNA retrotranscription at DNA double-strand breaks throughout vertebrate genome evolution”
Supervisor: Professor Elena Giulotto; Co-supervisor Professor Solomon Nergadze (University of Pavia)

“Antibiotic resistance in Enterobacteria, especially the colistin resistance, was thought to be impossible: comparison of diagnostic methods to detect antibiotic resistance in uropathogenic Escherichia coli”
Supervisor: Professor Elisa Gamalero (University of Piemonte Orientale “Amedeo Avogadro”)

RESEARCH EXPERIENCES:

University of Pavia Department of Biology and Biotechnology “Lazzaro Spallanzani”	Pavia, Italy October 2020 – Present
PhD student Supervisor: Professor Elena Giulotto Co-supervisor: Professor Solomon Nergadze Project: The role of repetitive sequences in gene expression control	
University of Pavia	Pavia, Italy September 2018 – July 2020
Graduate student Supervisor: Professor Elena Giulotto Co-supervisor: Professor Solomon Nergadze Project: Telomere and its transcription -Telomerase action in DNA DSBs repair and Interstitial telomeric sequences (ITs) insertion	

University of Piemonte Orientale “Amedeo Avogadro”

Alessandria, Italy
March 2018- June 2018

Undergraduate student

Supervisor: doctor Andrea Rocchetti

Project: Training in basic molecular biology and microbiology techniques in Alessandria's hospital

SKILLS AND TECHNIQUES:

- Basic molecular biology techniques: manipulation of cellular cultures, PCR, gel electrophoresis, molecular cloning, restriction enzyme digestion, DNA ligation, bacterial transformation, DNA extraction, plasmid purification, ChiP-Seq, Immunofluorescence and FISH.

- Bioinformatic skills: usage of basic bioinformatics systems (NCBI, UCSC Genome Browser, Multalin, RepeatMasker, Uniprot, Gene Ontology, ENSEMBL). Usage of different programs for NGS analysis (Galaxy, MACS2 Bowtie, Hisat2, Stringtie, IGV) on Ubuntu and Windows operating systems. Good computer programming knowledge (development of scripts in Bash and Python for data analysis) and good usage of R.

- Informatic skills: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Linux

MEETING ABSTRACTS:

- Cappelletti E, Piras FM, Annalisa Roberti, Calleda FR, Marchi G, **Sola L**, Raimondi E, Nergadze SG, Giulotto E. Dynamics and evolution of mammalian centromeres. 3rd Joint Annual Symposium of the Departments of Biology Biotechnology, Molecular Medicine and CNR-Institute of Molecular Genetics – Pavia, Italy, 19-21 February 2020.

OTHER EXPERIENCES:

- Master's degree tutor of Molecular biology and Genetics (MBG), University of Pavia (Supervisor: Prof. Elena Giulotto)

LANGUAGES:

Italian: mother tongue

English: fluent

French: basic

REFERENCES:

Doctor Andrea Rocchetti
Laboratory of Microbiology and Molecular Biology
Ospedale civile di Alessandria Ss. Antonio e Biagio e Cesare Arrigo
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Professor Elisa Gamalero
Department of Science and Technology Innovation
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