CURRICULUM VITAE

PERSONAL INFORMATION

Name and Surname:	Marko Paunović
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EDUCATION

Nov. 2026 –	**PhD in Genetics, Molecular and Cellular Biology (42nd cycle):** *Institute of Molecular Genetics "Luigi Luca Cavalli-Sforza" of National Research Council (IGM-CNR),* Pavia, Italy. With supervision of Dr. Emmanuele Crespan and co-supervision of prof. Dr. Claudia Binda I will be conducting my research on "Alternative pathways for RNA-DNA hybrids tolerance: DDX RNA helicases, DNA pols and RNase H1/2 in genome (in)stability", a project of the AIRC Foundation.
Oct. 2024 – July 2026	**Master of Science**: *University of Pavia,* Department of Biology and Biotechnology "L. Spallanzani", Pavia, Italy. Graduation grade of 110.
Oct. 2019 – Nov. 2023	**Bachelors**: *Aristotle University of Thessaloniki*, Department of Biology, Thessaloniki, Greece. Graduation grade of 8, 12.
Sep. 2015 – May 2019	**Secondary Education**: *High School*: "*Svetozar Marković*," Department of Natural Sciences and Mathematics, Jagodina, Serbia.
Sep. 2007 – June 2015	**Primary Education**: *Primary School:* "*17. oktobar*," Jagodina, Serbia. Graduated with honours.

WORK EXPERIENCE

26 – 30 May 2026	**BiP Erasmus + in Redox Biology in Health and Disease:** Department of Biology, University of Barcelona, Spain.

The theoretical classes of this Program introduced me to practical applications of Redox reactions in therapeutic contexts and deepened my knowledge on this topic. During my visit to Barcelona, I biochemically characterized the redox marker 3 – nitro tyrosine (3 – NT) in tumor cell models using immunoprecipitation and Western blotting. In parallel, I performed microscopy – based analyses of tissues from aged mice and monitoring redo biosensor responses to oxidative stress – inducing agents.

May 2025 – July 2026

Master's Internship: *"Bio crystallography laboratory",* Department of Biology and Biotechnology "L. Spallanzani", University of Pavia, Italy.
Under the supervision of prof. Dr. Andrea Mattevi, I screened libraries of compounds in order to characterize potential inhibitors of mitochondrial respiratory chain proteins: COQ8 and COQ10, including both isoforms.

July 2023 – Aug. 2023

Internship: *Microbiological laboratory: "Παπακωνσταντίνου Αθανάσιος",* Kassandria, Chalkidiki, Greece.
The laboratory in which I was employed was of a diagnostic variety, where a multitude of diagnostic methods were conducted, from the most basic to the more specialized biochemical tests. Specifically, due to the lack of work experience and the limitations it imposes, I managed routine blood exams, while also being taught the fundamentals of specialized exams.

Oct. 2022 – May 2024

Bachelor's Internship: *Plant morphology laboratory,* Department of Botany, Department of Biology, University of Thessaloniki, Greece.
Under the tutelage of prof. Dr. Georgios Komis and prof. Dr. Emmanuel Panteris I studied the dynamics and organization of cytoskeletal components, mainly actin microfilaments and microtubules, under hyperosmotic conditions.

LANGUAGES

First Language:	Serbian
Greek:	B 2
English:	C 1
German:	B 1+

*Note: please note that my proficiency in Greek is considerably higher, owing to the four years I spent living and studying in Greece.

SOCIAL SKILLS AND ABILITIES

I have a profound passion for voluntary work. During my voluntary service for the Red Cross of Jagodina a great deal of humanitarian actions of aid, ranging from gatherings of monetary or nutritional support for people in need, extending to providing help to cultural and sport organizations were organized by me and the other members. Additionally, I've participated in a few post-natural catastrophes actions undertaken by the Red Cross, which were arranged to help the affected people, including taking part in some seminars and conferences regarding first aid. I relish helping my fellow citizens should they find themselves in less opportune times. Being a member of an organization represents my willingness to be a good collaborator, diligence, meticulousness and systematicity.

TECHNICAL AND PRACTICAL SKILLS AND ABILITIES

Image acquisition and analysis: Zen lite; Image processing: ImageJ; Techniques: protein expression (*E. coli*), purification (AKTA systems), analysis (SDS-PAGE, Western blotting, staining), stability (Prometheus Panta), binding affinity (Microscale Thermophoresis), kinetics (stopped- and quenched-flow), activity assays (CLARIOstar), immunofluorescence, (co) crystallization, Mass spectrometry (basic); Microscopy: Laser scanning confocal.

ACCOMPLISHMENTS

Candidate for the AIRC4Youth program, which is a part of the AIRC Foundation for Cancer research in Italy.

Presentation of the Bachelor's thesis at a scientific conference of the Hellenic Society of Biological Sciences.

During my Bachelor's program, I was rewarded with a scholarship funded by the Greek Ministry of Foreign Affairs.