

# Curriculum Vitae

## Personal Details

**Name:** Ermioni Arvanitaki

**Date of Birth:** 02.12.1996

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## Education

▪ **September 2019 – present:** Postgraduate Studies at the Department of Biology, University of Crete, Greece

*Title:* Molecular Biology – Biomedicine

▪ **September 2014 – March 2019:** Undergraduate Studies at the Department of Biology, University of Crete, Greece (Grade: 7.64/10)

*Specialization:* Molecular Biology and Biotechnology

▪ **September 2011 – June 2014:** 1st General Lyceum of Drama, Greece (Grade: 19.1/20)

## Research Experience

▪ **October 2020 – present:** Master's thesis in "Genome (In)stability and Mammalian Physiology" lab, in Institute of Molecular Biology and Biotechnology (IMBB) Foundation of Research and Technology Hellas (FoRTH)

*Supervisor:* Prof. George A. Garinis

*Subject:* Investigation of the mechanisms governing immunosenescence in aging

▪ **August 2020 – September 2020:** Traineeship in "Genome (In)stability and Mammalian Physiology" lab, in IMBB-FoRTH

*Supervisor:* Prof. George A. Garinis

*Subject:* The role of DNA damage-induced inflammatory response in neurodegeneration

▪ **June 2020 – July 2020:** Traineeship in "Clinical Chemistry - Biochemistry" lab, in University of Crete (UoC)

*Supervisor:* Prof. Christos Tsatsanis

*Subject:* Epigenetic regulation of macrophage activation

▪ **March 2020 – May 2020:** Traineeship in "Gene Regulation & Epigenetics" lab, in IMBB-FoRTH

*Supervisor:* Dr. Iannis Talianidis

*Subject:* Generation of stable cell lines expressing dCas9-conjugated proteins and guide RNA design

▪ **March 2019 – June 2019:** Traineeship in "DNA Replication and Genome Integrity" lab, in Max Planck Institute of Biochemistry (MPIB), Munich

*Supervisor:* Dr. Boris Pfander

*Subject:* Characterization of a predicted SAM-like domain of nucleosome remodeller Fun30 in *Saccharomyces cerevisiae*

▪ **March 2018 – January 2019:** Bachelor's thesis in "Plant Molecular Biology" lab, in University of Crete (UoC)

*Supervisor:* Prof. Kriton Kalantidis

*Subject:* Exploitation of diatom resources for biotechnological applications

▪ **October 2017 – December 2017:** Quarterly Laboratorial Course in "Genome (In)stability and Mammalian Physiology" lab, IMBB-FoRTH

*Supervisor:* Prof. George A. Garinis

## Key Skills

### ▪ Technical skills:

#### **Imaging techniques:**

-Light microscopy

#### **Cellular Biology techniques:**

-Cultivation of *E. coli*, *S. cerevisiae* and diatoms

- Microglia isolation (Microbeads – MACS)

- Extracellular vesicle (exosome) isolation and staining

- Immunofluorescence

#### **Molecular Biology techniques:**

- Cloning in *E.coli* and *S. cerevisiae* (Ligation and restriction digest, Cell transformation, Plasmid DNA extraction, Preparation of competent cells, Generation of yeast strains)

-Yeast-two-hybrid screening with yeast genome library (Spotting, Shuttle plasmid preparation)

-Nucleic acid extraction (High molecular mass DNA, RNA)

-Polymerase Chain Reaction (PCR), Colony PCR, qRT-PCR

- Protein extraction, Protein quantification from polyacrylamide gel and with Bradford Assay

- SDS-PAGE and native-PAGE, Western blotting, Coomassie staining, Silver staining

- GST-tagged protein overexpression in bacteria and purification (Pull-down with glutathione sepharose beads)

-Salt Gradient Dialysis for *in vitro* nucleosome reconstitution

### ▪ Computer skills:

ImageJ for protein quantification, Perseus Software for analysis of Mass Spectrometry data,

Knowledge of Microsoft Windows operating system, Microsoft Office

## Seminars – Conferences

**July 2019:** Onassis Lectures in Biology and Chemistry: Genome Editing

## Scholarships

▪ **October 2010:** Reward for excellent student performance from National Bank of Greece

▪ **March 2019 – June 2019:** Erasmus+ Traineeship Grant

## Languages

▪ **Greek:** Native Language

▪ **English:** C2 level certificates (ECPE Michigan and City & Guilds C2)

▪ **German:** C1 level certificate (Goethe-Zertifikat C1)

## References

### **Prof. George Garinis**

IMBB/FoRTH Group Leader (Professor, University of Crete, Biology Department)

Nikolaou Plastira 100, 70013, Heraklion, Crete, Greece

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### **Dr. Boris Pfander**

Max Planck Institute of Biochemistry Group Leader

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### **Prof. Kriton Kalantidis**

UoC Group Leader and IMBB/FoRTH Affiliated Researcher (Professor, University of Crete, Biology Department)

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