

# Despoina Kaffe

## Personal information

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**Date of birth:** 15/06/1999

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## Education

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**September 2021 – present:** **MSc** in Molecular Biology and Biomedicine, Department of Biology, University of Crete

**September 2017 – November 2021:** **BSc** in Biology, Department of Biology, University of Crete  
Specialization: Biomolecular Sciences and Biotechnology  
Grade: 9,3/10

## Laboratory experience

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**September 2022 – present** **MSc thesis** in the Laboratory of Basic Neuroscience, Department of Medicine, University of Crete and IMBB, FORTH  
Investigation of the protective role of caloric restriction mimetics in myelin disruption: *in vivo* and *in vitro* approaches.  
Supervisor: Professor Domna Karagogeos

**July 2022 – August 2022:** **Lab rotation** in the Laboratory of Basic Neuroscience, Department of Medicine, University of Crete and IMBB, FORTH  
The role of nicotinamide, a caloric restriction mimetic compound that induces autophagy, on the proliferation and the differentiation of Oligodendrocytes  
Supervisor: Professor Domna Karagogeos

**May 2022 – June 2022:** **Lab rotation** in the Laboratory of Regenerative Medicine, Department of Medicine, University of Crete and IMBB, FORTH

Study of neurotrophin analogs in oligodendrocytes  
Supervisor: Associate professor Ioannis Charalampopoulos

**March 2022 – April 2022:**

**Lab rotation** in the Laboratory of Pest and Disease control, IMBB, FORTH  
Bacterial expression of different parts of ORP2-HFD of Plasmodium berghei  
Supervisor: Principal Researcher Inga Siden-Kiamos

**September 2020 – September 2021:**

**BSc thesis** in the Laboratory of Immunology, Department of Biology, University of Crete  
Development of myenteritis prior to the development of encephalomyelitis: involvement of soluble MHC class II molecules.  
Supervisor: Professor Irene Athanassakis

## **Laboratory techniques**

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- ✓ **Molecular techniques:** DNA isolation, PCR, gel electrophoresis, bacterial transformation, SDS-PAGE, Western blotting, ELISA, Flow cytometry, Immunohistochemistry, Immunocytochemistry, Immunoprecipitation (IP)
- ✓ **Cell culture techniques:** Primary glial cells, bacterial cells
- ✓ Cryosections, intracardiac perfusion, IP injections, isolation of myenteric plexus cells from mouse intestine, H&E staining, Fluorescence microscopy, Confocal microscopy

## **Honors and awards**

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| <b>October 2022 – October 2023:</b> | Onassis Foundation postgraduate fellowship |
| <b>October 2021 –October 2022:</b>  | Postgraduate fellowship from IMBB, FORTH   |
| <b>November 2021:</b>               | Award of excellence from IKY               |

## **Additional skills**

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**Languages:** Greek (native) / English (C2) / French (B1)

**Computer skills:** Microsoft Office (Word, Excel, PowerPoint), GraphPad Prism, FCS Express (Flow Cytometry Software), Adobe Photoshop, FIJI (imageJ), ImageLab

## **Conferences/ Seminars**

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- ✓ Annual Seminar of Immunology, Adaptive immunity: Novel approach to cellular and molecular mechanisms (2021).
- ✓ 1st LAS Core Modules Course (Webinar), BCRC "Alexander Fleming" (9 - 10 July 2020)
- ✓ HELLENIC BIOINFORMATICS12/2019, Precision Medicine, Biodiversity & Genome Biology, FORTH (11-13 October 2019)

## **Interests/ Activities**

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Swimming, tennis, greek traditional dances