

PERSONAL INFORMATION



First Name: Maria

Last Name: Shira

e-mail: shira@fleming.gr

EDUCATION

2017-2022: **Bachelor's degree**, Applied Mathematics, University of Crete

2022-current: **Master's degree**, Molecular Biomedicine, National and Kapodistrian University of Athens

RESEARCH ACTIVITIES

2021: **Visiting scientist** at the Laboratory of Pest and Vector Biology, Foundation of Research and Technology, Institute of Molecular Biology and Biotechnology (Prof. John Vontas FORTH, IMBB).

Trained on: Basic molecular techniques.

2022: **Internship** at the Laboratory of RNA biology and gene regulation, Foundation of Research and Technology, Institute of Molecular Biology and Biotechnology (Dr. Evgenia Ntini, FORTH, IMBB)

Worked on: Characterization of the differential RNA-binding protein interactions formed specifically by lncRNAs.

2023: **Visiting scientist** at the Laboratory of Immunology, Biomedical Sciences Research Center "Alexander Fleming" (Prof. George Kollias, B.S.R.C.)

Worked on: Assessing miR-124 levels in neural stem cells during neuroinflammation.

2023-current: **Master thesis** at the Laboratory of Immunology, Biomedical Sciences Research Center “Alexander Fleming” (Dr. Vassilis Aidinis, B.S.R.C.)

Working on: Investigating the role of SFRP2 in the pathogenesis of Idiopathic Pulmonary Fibrosis.

LABORATORY SKILLS

DNA & RNA: Isolation, Reverse Transcription, PCR, Q-RT-PCR

Protein: Isolation, Quantification, Western blot analysis

Cell Culture: Primary cells (lung fibroblasts, endothelial cells, neural stem cells, co-cultures)

Assays (MTT, Crystal Violet, JC-10, Invasion, Migration)

Staining: Immunofluorescent staining of cells and tissue, H&E

Molecular Cloning: Competent cell preparation, Bacteria transformation, Restriction enzyme digestion, Alkali lysis miniprep plasmid isolation

CONFERENCES

- Bridging the gap between the lab and industry, 5th annual conference of the MSc Molecular Biomedicine
- 73 Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology. “Investigating the role of SFRP2 in Idiopathic Pulmonary Fibrosis”

COMPUTER SKILLS

Office: Word, Excel, Power Point

GraphPad: Graphical and Statistical Software

Programming language: Python

LANGUAGE SKILLS

English: Excellent (C2 level), Certificate of English Language Proficiency, Michigan State University

IELTS (band score :7)

Greek: Native