

PERSONAL INFORMATION

SURNAME: NENEDAKI

NAME: ELECTRA

DATE OF BIRTH: 21.01.1994

PLACE OF RESIDENCE: HERAKLEION CRETE

e-mail: hlektranenedaki1994@hotmail.com

TEL.: 6948008099

EDUCATION

-
- | | |
|------------------------|---|
| 10.2017-11.2019 | Postgraduate student at the Graduate program “Molecular Biology and Biomedicine” (MBB), faculty of Biology and Medicine, University of Crete and IMBB-FORTH, Greece. Master thesis title: “DNA damage induced brain inflammation in age-related neurodegeneration”. Grade: 9.54 out of 10 “Excellent” |
| 09.2013-11.2017 | Undergraduate student at the Department of Biology, University of Crete, Greece. Bachelor thesis : “Study of the molecular mechanism of Ets2-repressor factor (ERF)”. Grade: 8.69 out of 10 “Excellent” |

RESEARCH/WORKING EXPERIENCE

-
- | | |
|------------------------|---|
| 07.2020-now | PhD student
Phd thesis on “Dissecting evolutionarily conserved mechanisms of iron regulation in macrophages during fungal infection, utilizing Drosophila Melanogaster as a genetic model” at the Department of Clinical Microbiology and Microbial Pathogenesis, University of Crete, Greece, under the Supervision of Professor Doctor George Chamilos |
| 01.2020-03.2020 | Erasmus + student
Erasmus + internship at the Institute for Clinical Chemistry and Laboratory Medicine (MTZ Medizinisch-Theoretisches Zentrum-IKL), Dresden, Germany, under the Supervision of senior Post-Doctoral Researcher Vasileia-Ismini Alexaki and Professor Doctor Triantafyllos Chavakis |
| 10.2018-11.2019 | Master student
M.Sc. Thesis on “ DNA damage induced brain inflammation in age-related neurodegeneration”, at the laboratory of Genome (In)stability and Mammalian Physiology (Institute of Molecular Biology and Biotechnology, IMBB-FORTH), Greece, under the Supervision of Post-Doctoral Researcher Katerina Gkirtzimanaki and Professor George Garinis |
| 07.2018-09.2018 | Master student- Rotator
2 month traineeship (rotation) on “The role of DNA damage in neurodegeneration” at the laboratory of Genome (In)stability and Mammalian Physiology (Institute of Molecular Biology and Biotechnology, IMBB-FORTH), Greece, under the Supervision of Post-Doctoral Researcher Katerina Gkirtzimanaki and Professor George Garinis |

- 07.2018-09.2018** **Master student- Rotator**
 2 month traineeship (rotation) on “The autophagic mechanisms involved in Streptococcus Group Beta (GBS) clearance by macrophages in adult and neonatal wild type and Akt1-/- mice and their role in sepsis prevention” at the laboratory of Clinical Chemistry (Division of Laboratory Medicine, School of Medicine, University of Crete), Greece, under the Supervision of Post graduate student Ourania Kolliniati and Professor Christos Tsatsanis
- 03.2018-05.2018** **Master student- Rotator**
 2 month traineeship (rotation) on the “Study the response of knocked down BAK1 and SOBIR1 *N. sylvestris* plants, after apoptotic effectors infection “ at the laboratory of Plant biotechnology and microbiology(Instituteof Molecular Biology and Biotechnology, IMBB-FORTH), Greece, under the Supervision of Post-Doctoral Researcher Glykeria Mermigka and Professor Panagiotis Sarris
- 10.2016-08.2017** **Undergraduate student**
 Undergraduate training in the Laboratory of Medical Chemistry, Faculty of Medicine, University of Crete, Greece. Advisor: Prof. G. Mavrothalassitis and Prof. D. Tzamaris (collaboration). Diploma thesis: “Study of the molecular mechanism of Ets2-repressor factor (ERF)”

CONFERENCES/WORKSHOPS/etc.

- Onassis Foundation Science Lecture Series in Biology and Chemistry: Eukaryotic Transcription and its Regulation. University of Crete, Greece, 07.2018
- 15th International Conference on Innate Immunity in memory of Alessandro Moretta. Kolimpari, Chania, Crete, 06.2018
- 66th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Athens, Greece, 12.2015

FELLOWSHIPS and AWARDS

- 2017-2018** Scholarship from the Graduate program “Molecular Biology and Biomedicine” (MBB), for achieving the third place in entrance in this Graduate program. University of Crete and IMBB-FORTH, Greece

FOREIGN LANGUAGES

- English, Edexcel Level 1 Certificate in ESOL International (level B2)-2010
- German, Staatszertifikat uber sprachkenntnisse (level B1)-2010

TEACHING ACTIVITIES

2018-2019 Teaching assistance in undergraduate laboratories. University of Crete, Biology department, Greece

TECHNICAL SKILLS

- Transformation through electroporation and heat shock , electrocompetent bacterial cells
- Cultures: bacteria cells, primary macrophages, primary microglia, cell line
- Cloning
- RNA extraction
- cDNAsynthesis
- Real-time PCR
- Primer design
- Agroinfiltration
- Virus induced gene silencing (VIGS)
- Mouse handling (Perfusion, tissue isolation, isolation of peritoneal macrophages from adult and neonatal mice, intraperitoneal injections)
- Different brain areas isolation
- Tissue sections cryotome
- Brain microglia isolation
- Western blot
- Immunostainings
- Flow cytometry (FACS analysis)
- Confocal microscopy
- Exosome isolation through sucrose gradient
- Acute brain slices sectioning and staining
- TEM and SEM sample preparation
- Drosophila culture
- Drosophila dissection (larvae and adults)
- Drosophila immunostaining
- Fungi culture, fungi labeling

RESEARCH GRANTS

Project Title	Funding source	Period	Role
Dissecting evolutionarily conserved mechanisms of iron regulation in macrophages during fungal infection, utilizing Drosophila Melanogaster as a genetic model	ERC (European Research Council)	2020-2025	PhD student

