

ELEFThERIA LEDAKI

Date of Birth: 31/05/1992

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EDUCATION

2014-present Accepted 1st at the Master of Science Degree in Molecular Basis of Human Diseases (Faculty of Medicine, University of Crete, Greece)

2010-2014 Bachelor of Science Degree in Biology (Biology Department, University of Crete, Greece) Grade (8.23/10)

2007-2010 4th High school of Chania, Crete, Greece (Grade 19.4/20)

RESEARCH EXPERIENCE

1.07.2014 – 30.09.2014 Erasmus Placement Research

Supervisor : Philip Avner, Head of Outstation and Senior Scientist, Laboratory of Dynamics of Epigenetic Regulation, European Molecular Biology Laboratory, Mouse Biology Unit, Monterotondo, Italy

Subject : "Regulation of X inactivation by chromatin remodeler complexes"

1.09.2013 – 31.06.2014 Diploma Thesis

Supervisor : Professor A.Eliopoulos, Laboratory of Cellular and Molecular Biology, Faculty of Medicine, University of Crete, Greece

Subject : "Study of epigenetic regulation of gut dysplasia in *Drosophila melanogaster*"

28.02.2013-31.08.2013 Research

Supervisor : Assistant Professor in Biochemistry, E. Papakonstanti, Department of Biochemistry, Faculty of Medicine, University of Crete, Greece

Subject : "Exploration of the expression and function of nuclear CSF-1R in hormone-dependent and hormone-independent breast cancer cell lines"

05.07.2012-20.08.2012 Practical Training

Biochemistry Laboratory of Chania General Hospital "Saint George", Crete, Greece

Experience in the manufacture and reconstitution of the needed materials and reagents for blood assays, as well as observation and participation in biochemical blood tests, immunological, hormonal, protein separation and nephelometric assays. Critical evaluation and consult on the abovementioned tests.

07.03.2012-30.06.2012 Internship

Supervisor : Assistant Professor in Biochemistry E. Papakonstanti, Biochemistry Department, Faculty of Medicine, University of Crete, Greece

Subject : "Molecular mechanisms of signal transduction in cancer and metastasis and the role of the different isoforms of PI3 kinase and Rho- GTPases in tumorigenesis and cellular migration"

04.2011 Visit

Supervisor : MSc student, Fotis Bekris, Ecology Laboratory, University of Crete, Greece

Subject : Experiments on Soil Microbiology

2010-2011 Research

Supervisor : Professor Katerina Voreadou, Laboratory of Hydrobiology, Natural History Museum of Crete

Subject : Research on the Biodiversity of superficial waters of lakes and rivers. Collection, identification and separation of different living organisms on the top layers of rivers and lakes across the county of Heraklion as well as phylogenesis and preservation of the identified species.

LABORATORY SKILLS

Molecular and Biochemical techniques: - Agarose gel electrophoresis -DNA isolation, cDNA preparation, RNA extraction, Protein extraction(nuclear-total) -protein purification and quantification (Bradford assay) methods -qRT-PCR-Western Blotting-immunocytochemistry and immunofluorescence for the study of gut pathology in *Drosophila melanogaster*

-immunofluorescence for the study of X chromosome inactivation in ESC lines-incubation of cells with different concentrations of estradiol -Chromatin

Immunoprecipitation (ChIP) (Basic Principles) -DNA FISH assays (Basic Principles) -Preparation of solutions and appropriate dilutions

Mice:-maintenance of laboratory mice (proper handling, sexing and age recognition)-subcutaneous, intra peritoneal, intramuscular and oral gavage administration of substances -Blood sampling by facial vein, saphenous vein, cardiac puncture, retro orbital vein-Suturing and ear tagging (mice identification method)

Drosophila melanogaster: -genetic crosses of *Drosophila melanogaster* strains -feeding experiments, survival assays -dissections of adult guts of *Drosophila melanogaster* strains

Microscopy: -excellent use of fluorescent microscope, stereoscope and confocal microscope

Cell Culture: -techniques for cell culture of eukaryotic cells -Characterization, maintenance and implementation of differentiation of mouse ESCs (embryonic bodies and neuronal stem cell precursors protocols)

CONFERENCES

07.04.2012: 22nd Academic Pancretan Pediatric Symposium, Heraklion, Crete, Greece

09.07.2012-13.07.2012: The Onassis Foundation Science Lecture Series in Biology "A world of RNAs". The Institute of Molecular Biology and Biotechnology (IMBB).

Heraklion, Crete, Greece

09.11.2012-11.11.2012: 63rd Congress of the Hellenic Society of Biochemistry and Molecular Biology, IMBB, Heraklion, Crete, Greece

12.12.13-14.12.13: 9th Congress of the Hellenic Society of Immunology, Athens, Greece

24.03.2014: Scientific Congress: Epidemic of childhood obesity in Crete: What we have to know, Atrion Hotel, Heraklion Crete, Greece

14.05.14-15.05.14: TRANSPOT 2-day qPCR-Training Course, University of Crete Medical School, Heraklion, Crete, Seminar Leader Triantafyllos Liloglou, Phd, Senior Lecturer, University of Liverpool

03.07.14: Bioinformatics Training Course on "Guidelines for the Design of Experiments using Lab Animals" EMBL, Mouse Biology Unit, Monterotondo, Italy

12.10.14-13.10.14: "Inflammatory Networks in Health and Disease" Symposium, Medical School, University of Crete, Heraklion, Crete, Greece

30.10.14-02.11.14: 17th Pancretan Medical Symposium, Hotel Atlantis, Heraklion, Crete, Greece

CERTIFICATE

EMBL, Mouse Biology Unit: Certificate on Mouse Handling, regarding the basic training of new researchers consisting of theoretical core modules and practical sessions as coordinated by the Administration of Animal Facilities on the Premise of EMBL, Monterotondo.

LANGUAGES

English Certificate of Proficiency in English- University of Cambridge C2 & Certificate of Proficiency in English- The University of Michigan C2

German Goethe Institut Zertifikat Deutsche B1

COMPUTER SKILLS

Certificate of Department of Biology for successful completion of undergraduate courses which constitute part of Computer Science and Computer Handling Microsoft Office (Word, Excel, PowerPoint), GraphPad PRISM, SPSS statistical package, Introduction to different software packages for primer selection

EXTRACURRICULAR ACTIVITIES

2013: Voluntary private lessons to poor elementary students

2010/2012/2014: Secretary of the regional elections of 2010, parliamentary elections of 2012, regional and municipal elections of 2014

AWARDS AND DISTINCTIONS

08.2014: 1st award in National Competition in Greece created for "Fighting for Road Safety" through conducting an 1minute video-clip to raise awareness to drivers for road safety.

09.2010: Participation at the Euroscola Programme, through an essay competition on "Which are the ways of reducing the democratic deficit in the European Union", which was conducted in the European Parliament in Strasbourg and was elected secretary of a 150 group of students in order to present our views concerning the protection of the environment. Gain of knowledge concerning various institutions and decision-making processes in financial, cultural, economic, political and social issues in Europe and enhancement of leadership skills.