

CURRICULUM VITAE

ELENI KYRIAKOU (Dr)

PERSONAL DATA

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| Date of Birth: | 11-05-1987 |
| E-mail: | ekyriakou@biol.uoa.gr |
| Phone number: | laboratory:+30 210 7274745 / mobile:+30 6979031604 |

ACADEMIC EDUCATION

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| 2010-2015 | PhD Thesis Department of Biochemistry and Molecular Biology, Faculty of Biology National and Kapodistrian University of Athens Subject: "Molecular approach of structural and functional elements of mitochondrial DNA of <i>Mytilus galloprovincialis</i> ." under the supervision of Professor George C. Rodakis. Degree: Excellent |
| 2005-2009 | Degree in Biology University of Athens, Faculty of Biology 2009 Degree: 7,31/10 Diploma thesis: "Study of the atypical presence of the paternal (M type) mitochondrial DNA in the somatic tissues of male individuals of the species <i>Mytilus galloprovincialis</i> " Supervisor: Professor George C. Rodakis. |
| 2002-2005 | Graduated from the 1st Lyceum of Nea Smyrni 2005 Degree: 19/20 (Excellent) |

ADDITIONAL RESEARCH EXPERIENCE

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| 2009-2011 | Participation in the project: "Determination of the 5' and 3' ends of mitochondrial mRNAs in the bivalve <i>Mytilus galloprovincialis</i> .", which was the subject of post-doctoral research of Dr. Evanthia Chatzoglou under the supervision of Professor George C. Rodakis. |
| 2009-2010 | Continuation of research on the subject of diploma thesis with the aim of publication of the complete work in a foreign scientific journal. |

RESEARCH FIELD / INTERESTS

- Molecular Biology, Evolutionary Biology, Molecular Evolution
- Determination and analysis of nucleic acid sequences of Metazoan mitochondrial DNA
- Analysis and comparison of nucleic acids in levels of organism and population, estimation of evolutionary relationships and determination of possible evolutionary mechanisms.
- Study of mtDNA-protein interactions in frames of evolutionary hypotheses investigation.

MEMBER OF SOCIETIES

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| 2011-date | Member of the Hellenic Society for Biochemistry and Molecular Biology. |
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LABORATORY TECHNIQUES AQUAINTED

- Total DNA extraction from various tissues
- Total RNA extraction from various tissues
- Plasmid DNA extraction
- Cloning of DNA Restriction fragments
- Agarose gel electrophoresis (DNA and RNA)
- Bacterial transformation
- Polymerase Chain Reaction (PCR)
- Reverse Transcription of RNA (RT-PCR)
- Sequences alignment and estimation of evolutionary relationships
- Percoll gradient centrifugation for sperm separation
- Protein polyacrylamide gel electrophoresis (SDS-PAGE and native PAGE)
- Gel extraction
- Radiolabeling of DNA fragments
- Autoradiography
- Electrophoretic Mobility Shift Assay (EMSA)
- DNase I footprinting assay
- Southwestern analysis
- Protein extraction from various tissues
- 5' RACE and 3'RACE

TEACHING EXPERIENCE

- Attendance in the conduct of laboratorial exercises of undergraduate students of Department of Biology in the obligatory course: "Introduction to Molecular Biology" as well as of the School of Pharmacy in the obligatory course: "Biochemistry".
- Teaching of biology courses to high school students.

ADDITIONAL INFORMATION

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| Languages | English (Cambridge & Michigan Proficiency) German (Zertifikat) Russian (excellent (native) speaker) |
| Translation experience | English-to-Greek translations of patents of biological, chemical and pharmacological content. |
| Computer skills | <ul style="list-style-type: none">▪ Excellent use of computer with the operational systems: Windows and Mac OS. Excellent use of Ms-Office programs pack (2013, 2010, 2007, 2003, and older versions), image and video processing programs (e.g., Adobe Photoshop, CorelDraw suit, iMovie and others), website development and enrichment programs, as well as a series of special programs for information search in scientific data banks and protein and nucleic acid sequence analysis software.▪ MatLab Seminar attendance. Computer Center. National and Kapodistrian University of Athens. October 10, 2012. |

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| Voluntary employment | <ul style="list-style-type: none"> ▪ Creator and administrator of the Doubly Uniparental Inheritance (DUI) literature database site: http://users.uoa.gr/~grodakis/DUI_SITE/enter.htm <p>Participation in the voluntary work program of the National Marine Park of Zakynthos, for the protection of <i>Caretta caretta</i> nests.</p> |
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SCHOLARSHIPS / GRANTS

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| 2014 | Awarded a bursary by the Hellenic Society for Biochemistry and Molecular Biology for the participation in the 65 th Hellenic Society for Biochemistry and Molecular Biology Conference. November 28 – 30, 2014. Thessaloniki, Greece. |
| 2014 | Awarded a bursary by the Federation of European Biochemical Societies (FEBS) for the participation in the FEBS EMBO Conference. 30 August – 4 September, 2014. Paris, France. |
| 2013 | Awarded for the best oral presentation at the 1 st Young Scientists Forum of the Hellenic Society for Biochemistry and Molecular Biology. December 5 th 2013. Athens, Greece. |
| 2013 | Awarded a fellowship by the Federation of European Biochemical Societies (FEBS) for the participation in the 13 th Young Scientists Forum & 38 th FEBS Congress. July 3 – 11, 2013. St. Petersburg, Russia. |
| 2012 | Awarded a bursary by the Hellenic Society for Biochemistry and Molecular Biology for the participation in the 63 rd Hellenic Society for Biochemistry and Molecular Biology Conference. November 9 – 11, 2012. Foundation for Research and Technology. Heraclion. Crete. |
| 2010-2014 | Scholar for postgraduate studies in Greece, at the expenses of the income of Antonios Papadakis heritage. |

ABSTRACTS IN CONFERENCES

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| 2014 | <u>Kyriakou, E.</u> , L. Kravariti, E. Zouros and G. C. Rodakis. New insights into Doubly Uniparental Inheritance of mitochondrial DNA: a protein binding site in the M genome of <i>Mytilus</i> is responsible for its paternal transmission. 65 th Hellenic Society for Biochemistry and Molecular Biology Conference. November 28 – 30, 2014. Thessaloniki, Greece. (poster) |
| 2014 | <u>Kyriakou, E.</u> , E. Chatzoglou, E. Zouros and G. C. Rodakis. The first complete transcriptome study of the two mitochondrial genomes of a species with Doubly Uniparental Inheritance (DUI) of mtDNA: unique features unveiled. FEBS EMBO Conference. 30 August – 4 September, 2014. Paris, France. (poster) |
| 2013 | <u>Kyriakou, E.</u> , E. Chatzoglou, E. Zouros and G. C. Rodakis. The first complete transcriptome study of a female and a male transmitted mitochondrial genome of a species with Doubly Uniparental Inheritance (DUI) of mtDNA. 1 st Young Scientists Forum & 64 th Hellenic Society for Biochemistry and Molecular Biology Conference. December 6 – 8, 2013. Athens, Greece. (oral presentation) |
| 2013 | <u>Kyriakou, E.</u> , L. Kravariti, E. Zouros and G. C. Rodakis. Sex-specific mtDNA-protein interactions in a system of obligatory biparental mtDNA inheritance and the exceptional role of perinuclear mitochondria. 13 th |

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| | Young Scientists Forum & 38 th FEBS Congress. July 3-11, 2013. St. Petersburg, Russia. (poster) |
| 2012 | <u>Kyriakou, E.</u> , L. Kravariti, E. Zouros and G. C. Rodakis. Perinuclear mitochondria contain mtDNA-binding proteins responsible for paternal transmission in a system of obligatory biparental inheritance. 63 rd Hellenic Society for Biochemistry and Molecular Biology Conference. November 9-11, 2012. Heraklion. Crete. Greece. (poster) |
| 2011 | Chatzoglou E., <u>E. Kyriakou</u> , E. Zouros and G. C. Rodakis. 2011. Determination of the 5' and 3' ends of mitochondrial mRNAs in the bivalve <i>Mytilus galloprovincialis</i> , a species with two mitochondrial genomes. 62 nd Hellenic Society for Biochemistry and Molecular Biology Conference. December 9-11, 2011. Athens, Greece. (oral presentation by E. Chatzoglou) |
| 2011 | <u>Kyriakou, E.</u> , L. Kravariti, E. Zouros and G. C. Rodakis. 2011. Sex-specific mtDNA-protein interactions: evidence for a unique mechanism of mtDNA transmission. 62 nd Hellenic Society for Biochemistry and Molecular Biology Conference. December 9-11, 2011. Athens, Greece. (poster) |
| 2011 | <u>Kyriakou, E.</u> , L. Kravariti, E. Zouros and G. C. Rodakis. 2011. Detection of sex-specific protein binding regions of the mitochondrial DNA of <i>Mytilus galloprovincialis</i> . 33 rd Scientific Conference of the Hellenic Society for Biological Sciences. May 19-21, 2011. Edessa, Greece. (poster) |
| 2010 | Chatzoglou E., <u>Kyriakou, E.</u> , E. Zouros and G. C. Rodakis. 2010. Determination of mitochondrial mRNA 3' ends in the bivalve <i>Mytilus galloprovincialis</i> . 32 nd Scientific Conference of the Hellenic Society for Biological Sciences. May 20-22, 2010. Karpenisi, Greece. (poster) |
| 2009 | <u>Kyriakou, E.</u> , E. Zouros and G. C. Rodakis. 2009. Mutations of the paternal mtDNA during ontogenesis of <i>Mytilus galloprovincialis</i> . 31 st Scientific Conference of the Hellenic Society for Biological Sciences. May 14-16, 2009. Patra, Greece. (poster) |

PUBLICATIONS

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| 2015 | <u>Kyriakou, E.</u> , L. Kravariti, T.Vasilopoulos, E. Zouros and G. C. Rodakis. 2015. A protein binding site in the M mitochondrial genome of <i>Mytilus</i> is essential for its paternal transmission. Gene . 562: 83–94. |
| 2014 | <u>Kyriakou, E.</u> , E. Chatzoglou, G. C. Rodakis and E. Zouros. 2014. Does the ORF in the control region of <i>Mytilus</i> mtDNA code for a protein product?. Gene . 546: 448-450. |
| 2014 | <u>Kyriakou, E.</u> , E. Chatzoglou, E. Zouros and G. C. Rodakis. 2014. The rRNA and tRNA transcripts of maternally and paternally inherited mtDNAs of <i>Mytilus galloprovincialis</i> suggest presence of a 'degradosome' in mussel mitochondria and necessitate the re-annotation of the l-rRNA/CR boundary. Gene . 540: 78-85. |
| 2013 | <u>Kyriakou, E.</u> , L. Kravariti, E. Zouros and G. C. Rodakis. 2013. Sex-specific mtDNA-protein interactions in a system of obligatory biparental mtDNA inheritance and the exceptional role of perinuclear mitochondria. FEBS Journal . 280: 260. |
| 2013 | Chatzoglou, E., <u>E. Kyriakou</u> , E. Zouros and G. C. Rodakis. 2013. The mRNAs of maternally and paternally inherited mtDNAs of the mussel <i>Mytilus galloprovincialis</i> : Start/end points and polycistronic transcripts. Gene . 520: 156-165. |

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| 2010 | <p>Kyriakou, E., E. Zouros and G. C. Rodakis. 2010. The atypical presence of the paternal mitochondrial DNA in somatic tissues of male and female individuals of the blue mussel species <i>Mytilus galloprovincialis</i>. BMC Res. Notes. 3: 222.</p> |
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