

PERSONAL  
INFORMATION

Konstantina Tsiminikaki



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Sex Female | Date of birth 17/ 08/1995 | Nationality Greek

EDUCATION AND TRAINING

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09/2018-Today

Master of Science in “Protein Biotechnology”

University of Crete, Iraklio (Greece)  
[probiotech.biology.uoc.gr](http://probiotech.biology.uoc.gr)

09/2013-23/03/2018

Studies in Biology with specialization in Biomolecular Sciences and Biotechnology

University of Crete, Iraklio (Greece)  
[www.biology.uoc.gr](http://www.biology.uoc.gr)

Degree mark: 7,15 / 10 (Very Good)

2011–2013

Completion of Secondary Education

8o Lyceum, Iraklio (Greece)

Grade: 18,8 / 20 (Excellent)

## WORKING EXPERIENCE

- 10-2019-Today MSc thesis within the frameworks of the MSc program.  
**Michalis Aivaliotis**, IMBB Group Leader (Associate Professor, Biochemistry, Medical School, AUTH), [aivaliot@imbb.forth.gr](mailto:aivaliot@imbb.forth.gr), [aivaliotis@auth.gr](mailto:aivaliotis@auth.gr)
- 06-2019-09-2019 2<sup>nd</sup> Lab Rotation within the frameworks of the MSc program.  
**Electra Gizeli**, IMBB Group Leader (Full Professor, Biology department, UoC), [gizeli@imbb.forth.gr](mailto:gizeli@imbb.forth.gr), [gizeli@biology.uoc.gr](mailto:gizeli@biology.uoc.gr)
- 03/2019-06/2019 1<sup>st</sup> Lab Rotation within the frameworks of the MSc program.  
**Michalis Aivaliotis**, IMBB Group Leader (Associate Professor, Biochemistry, Medical School, AUTH), [aivaliot@imbb.forth.gr](mailto:aivaliot@imbb.forth.gr), [aivaliotis@auth.gr](mailto:aivaliotis@auth.gr)
- 07/2018-Today Start of a project with the title: “Establishing the first ever stable isotope ratio baseline in Crete (Greece) for forensic identification”, in cooperation of the University of Edinburgh, the Forensic Medicine Department of the Ministry of Justice, Transparency and Human Rights in Crete, the University of Crete and National Research Center For Natural Sciences (“Dimokritos”).  
**Elena Kranioti**, Assistant Professor of Forensic Medicine, Medical School, University of Crete [ekranioti@uoc.gr](mailto:ekranioti@uoc.gr)
- 12/2017-02/2018 Internship at the Laboratory of Toxicology and Criminological Chemistry of the Department of Medicine of the University of Crete.  
**Aristidis M. Tsatsakis**, Professor of Toxicology, Director of the Laboratory of Forensic Science & Toxicology, [aris@med.uoc.gr](mailto:aris@med.uoc.gr)  
**Title:** “Processing and Analysis of Biological Samples”.  
**Activities and Competencies:**
  - Receiving and organizing samples (blood, urine, gastric fluid, bile and intraocular fluid) from the Psychiatric Clinic, the Neurosurgical Clinic, the Forensic Medicine Sector, the Intensive Care Unit, the Treatment Center for Drug Dependent Persons and the Police Department.
  - Sample analysis with the Architect quantification machine and liquid chromatography (LC-MS) for the detection of alcohol, drugs and narcotics.
  - Analysis of blood samples for the control and determination of organophosphate pesticides, using a spectrophotometer (pseudochoolinesterase activity control) and gas chromatography - mass spectrometry (GC-MS).
  - Treatment of blood samples of narcotics and brain tumor patients to determine the length of the telomeres of the chromosomes and analysis of the results.
  - Education and Certification (Institute of Molecular Biology and Biotechnology) for the use of Confocal Microscopy and in particular Leica SP8 inverted confocal.
- 03/2016–09/2017 Graduate Thesis at the Laboratory of Toxicology and Criminology of the Department of Medicine of the University of Crete  
**Aristidis M. Tsatsakis**, Professor of Toxicology, Director of the Laboratory of Forensic Science & Toxicology, [aris@med.uoc.gr](mailto:aris@med.uoc.gr)  
**Spilianakis Charalampos**, Associate Professor of the department of Biology of the University of Crete, Biochemistry, Molecular Immunology, Molecular Biology, Epigenetics, Chromatin structure and function, cell nuclear organization, [spiliana@imbb.forth.gr](mailto:spiliana@imbb.forth.gr), [spiliana@biology.uoc.gr](mailto:spiliana@biology.uoc.gr), [spiliana@me.com](mailto:spiliana@me.com)

**Thesis title:** “ Evaluation of early biological aging in psychotropic drug users by determining the size of the telomeres of the chromosomes ”

**Activities and Competencies:**

- Cell culture.
- Isolation of Leukocytes.
- Fluorescence in situ hybridization.
- Confocal Microscopy training and use of Leica SP8 inverted confocal.
- Determination of telomeres' length by using the Image J program and analysis of the results using Excel 2010.

02/2017–05/2017

Internship with the Erasmus+ Program at the University of Edinburgh, School of History, Classics and Archaeology.

**Elena Kranioti**, Assistant Professor of Forensic Medicine, Medical School, University of Crete [ekranioti@uoc.gr](mailto:ekranioti@uoc.gr)

**Activities and Competencies:**

- Identification and recording of skeletal material.
- Anthropological Analyses.
- Analyses of skeletal parts.
- Histology and Bone histomorphometry in modern and archaeological populations.
- DVI techniques, autopsy techniques.
- 3D Visualization Methods (Amira software, 3D surface scanning, 3D printing)
- Use of Statistical Methods (SPSS subroutines).

05/2016–10/2016

Project within the framework of the subject “Three month Lab work” at the laboratory of “Fish Physiology” of the department of Biology of the University of Crete.

**Michael Pavlidis**, Chair Person and Professor of the department of Biology of the University of Crete, Sector of Biology of the Organizations, Populations, Environment and Marine Biology, [pavlidis@biology.uoc.gr](mailto:pavlidis@biology.uoc.gr).

**Project Title:** “Evaluation of the expression of thyroid hormone deiodinases and receptors in sea bream (*Sparus aurata*) and sea bass (*Dicentrarchus labrax*) in stress conditions ”

**Activities and Competencies :**

- Primer design and Control by PCR and Agarose Gel Electrophoresis.
- RNA isolation from the fish' brain.
- Quantification of RNA with photometric methods.
- Conversion of RNA to cDNA by reverse transcription.
- Real-time PCR.
- Use of Analysis Programs, like geNorm, one-way analysis of variance, t-test, graphpad prism.

**PERSONAL SKILLS**

Mother tongue    Greek

Other languages	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Examination for the Certificate of Competency in English (ECCE)					
German	B1	B1	B1	B1	B1
State Language Certificate					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
Common European Framework of Reference for Languages

**Digital skills**

Knowledge of Bioinformatics and Computer Use through the following courses:

- Use of Computers I (Undergraduate)
- Computational Biology (Undergraduate)
- Methods of Physiological Processes Analysis (Undergraduate)
- Bioinformatics (MSc)

**PUBLICATIONS AND CONFERENCES**
**PUBLICATIONS**

Vakonaki, E., Tzatzarakis, M., **Tsiminikaki K.**, Nathena, D., Fragkiadaki, P., Kalliantasi, K., Tsatsakis, A. (2019). Effect of chronic and heavy drug abuse on biological aging . World Academy of Sciences Journal, 1, 67-73.

E. Vakonaki, GA Vaki, **K Tsiminikaki**, A Alepkakis, K Kalliantasi, P Fragkiadaki, M Flamourakis, D Tsoukalas, I Fragkiadoulaki, MN Tzatzarakis, AM Tsatsakis (2018). Decreased telomeres length in patients with glioblastoma multiform. Toxicology Letters 295: S92.

E. Vakonaki\*, **K. Tsiminikaki\***, S. Plaitis, P. Fragkiadoulaki, D. Tsoukalas, I. Katsikantami, G. Vaki, M.N. Tzatzarakis, D.A. Spandidos and A.M. Tsatsakis (2018). Common mental disorders and association with telomere length (Review). Biomedical Reports 8: 111-116.

\*contributed equally

Elena Vakonaki, Presefoni Fragkiadaki, Dimitrios Tsoukalas, Athanasios Alepkakis, Georgia Vaki, **Konstantina Tsiminikaki**, Stavros Plaitis, Manolis Tzatzarakis, Aristidis Tsatsakis (2017). Telomere length in opiates and cannabis abusers as a marker of early aging. Toxicology Letters 280: S242.

**Κωνσταντίνα Τσιμινικάκη**, Έλενα Βακωνάκη, Μανόλης Τζατζαράκης, Δέσποινα Νάθενα, Περσεφόνη Φραγκιαδάκη, Κατερίνα Καλλιαντάση, Κατερίνα Κανάκη, Γεωργία Βάκη, Σταύρος Πλαΐτης, Δημήτριος Τσουκαλάς, Αθανάσιος Αλεγκάκης, Δημήτριος Α. Σπαντίδος, Αριστείδης Τσατσάκης. ΕΚΤΙΜΗΣΗ ΤΗΣ ΕΠΙΔΡΑΣΗΣ ΤΗΣ ΧΡΟΝΙΑΣ ΚΑΙ ΣΥΣΤΗΜΑΤΙΚΗΣ ΧΡΗΣΗΣ ΨΥΧΟΤΡΟΠΩΝ ΟΥΣΙΩΝ ΣΤΗΝ ΒΙΟΛΟΓΙΚΗ ΗΛΙΚΙΑ. 2<sup>η</sup> Επιστημονική Ημερίδα Ιατροδικαστικής, Σεπτέμβριος 2019, Ηράκλειο, Κρήτης

**Κωνσταντίνα Τσιμινικάκη**, Mara A. Karell, Δέσποινα Νάθενα, Δημήτριος Χαλαζωνίτης, Κωνσταντίνος Σπανάκης, Απόστολος Καραντάνας, Έλενα Φ. Κρανιώτη. ΓΕΩΜΕΤΡΙΚΗ ΣΥΓΚΡΙΣΗ ΤΩΝ ΦΑΛΑΓΓΩΝ ΤΩΝ ΔΑΚΤΥΛΩΝ ΩΣ ΜΕΘΟΔΟΣ ΤΑΥΤΟΠΟΙΗΣΗΣ ΤΩΝ ΔΙΦΥΩΝ ΟΣΤΩΝ ΜΕ ΧΡΗΣΗ ICP ΑΛΓΟΡΙΘΜΟΥ. 2<sup>η</sup> Επιστημονική Ημερίδα Ιατροδικαστικής Σεπτέμβριος 2019, Ηράκλειο, Κρήτης.

**K. Tsiminikaki**, A. Tsalafouta, K. Koumaki, N. Papandroulakis, P. Katharios, M. Pavlidis. EARLY LIFE STRESS AND THE EXPRESSION OF DEIODINASES AND THYROID RECEPTORS GENES IN EUROPEAN SEA BASS (*Dicentrarchus labrax*). Conference Aquaculture Europe October 2017, Dubrovnic, Croatia.

**Konstantina Tsiminikaki**, Mara A. Karell, Demetrios Halazonetis, Elena F. Kranioti. Pair-matching Phalanges Using an Automated Digital Mesh-to-mesh Value Comparison Method. Anthropology and Migration FASE one-day Symposium, September 2017, Milan, Italy.

Elena Vakonaki, Persefoni Fragkiadaki, Dimitrios Tsoukalas, Athanasios Alegkakis, Georgia Vaki, **Konstantina Tsiminikaki**, Stavros Plaitis, Manolis Tzatzarakis, Aristidis Tsatsakis. Telomere length in opiates and cannabis abusers as a marker of early aging. 53th Congress of the European Societies of Toxicology (EUROTOX 2017) September 2017, Bratislava, Slovak Republic.

T Dimitris Tsoukalas, Elena Vakonaki, Persefoni Fragkiadaki, Athanasios Alegkakis, Stavros Plaitis, **Konstantina Tsiminikaki**, Georgia Vaki, Eirini Fragkiadoulaki, Manolis Tzatzarakis, Aristidis Tsatsakis: Telomeres length as ageing biomarker in glyphosate users, Biotech, 2017

## AWARDS

1<sup>st</sup> award in oral presentation:

**Κωνσταντίνα Τσιμινικάκη**, Έλενα Βακωνάκη, Μανόλης Τζατζαράκης, Δέσποινα Νάθενα, Περσεφόνη Φραγκιαδάκη, Κατερίνα Καλλιαντάση, Κατερίνα Κανάκη, Γεωργία Βάκη, Σταύρος Πλαΐτης, Δημήτριος Τσουκαλάς, Αθανάσιος Αλεγκάκης, Δημήτριος Α. Σπαντίδος, Αριστείδης Τσατσάκης. ΕΚΤΙΜΗΣΗ ΤΗΣ ΕΠΙΔΡΑΣΗΣ ΤΗΣ ΧΡΟΝΙΑΣ ΚΑΙ ΣΥΣΤΗΜΑΤΙΚΗΣ ΧΡΗΣΗΣ ΨΥΧΟΤΡΟΠΩΝ ΟΥΣΙΩΝ ΣΤΗΝ ΒΙΟΛΟΓΙΚΗ ΗΛΙΚΙΑ. 2<sup>η</sup> Επιστημονική Ημερίδα Ιατροδικαστικής, Σεπτέμβριος 2019, Ηράκλειο, Κρήτης

## Scholarships

Scholarship during Master of science thesis (10/2019-10/2020) in Institute of Molecular Biology and Biotechnology, Functional Proteomics and System biology research group.