



MARIA TAMPAKAKI

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Current Appointment

Graduate student at the Computational Bio-Medicine Lab (CBML), Institute of Computer Science (ICS), Foundation for Research and Technology-Hellas (FORTH)

Date of birth: 30/09/1993, Heraklion Crete | Nationality: Greek

EDUCATION

2016-PRESENT

MSc in "BRAIN & MIND" SCIENCES, FACULTY OF MEDICINE, UNIVERSITY OF CRETE

Interdisciplinary Graduate Programme in the Brain and Mind Sciences, organized by the faculty of Medicine and the departments of Computer Science, Physics, and Philosophy and Social Studies of the University of Crete as well as from the departments of Nursing and History and Philosophy of Sciences of the National and Kapodistrian University of Athens

2011-2016

BSc in BIOLOGY, DEPARTMENT OF BIOLOGY, UNIVERSITY OF CRETE

Grade: 7.24/10, "Very Good"

2008-2011

HIGH SCHOOL DIPLOMA, "DOMINIKOS THEOTOKOPOULOS", 1ST HIGH SCHOOL OF MALEVIZI

Municipality of Malevizi, GR-71414, Heraklion Crete

Grade: 19/20, "Excellent"

RESEARCH EXPERIENCE

05/2018 – PRESENT

MASTER THESIS

"IMAGE GUIDED BRAIN CANCER MODELING"

Computational Bio-Medicine Lab (CBML), Institute of Computer Science (ICS), Foundation for Research and Technology-Hellas (F.O.R.T.H.)

Supervisors:

1. V. Sakkalis, Principal Researcher, Computational Bio-Medicine Lab, ICS, F.O.R.T.H. (sakkalis@ics.forth.gr)
2. K. Sidiropoulou, Assistant Professor in Neurophysiology, Dept. of Biology, University of Crete (sidirop@uoc.gr)
3. T. Maris, Assistant Professor of Medical Physics, Faculty of Medicine, University of Crete (tmaris@med.uoc.gr)

Summary: Computational modeling of the physiological characteristics of Glioblastoma (GB) cells based on in vitro and ex vivo biological models. The project involves the development of an ex vivo mouse brain slice protocol in order to study the invasive properties of the GB cells in their microenvironment of origin and image them using photoacoustic and fluorescence pulse sources. Furthermore, genetically modified GB cell lines are studied in vitro in 2D and 3D cultures aiming in imaging biomarkers identification.

10/2017 – 02/2018

LAB ROTATION

"ANALYSIS OF MACAQUE PREFRONTAL CORTEX ELECTROPHYSIOLOGICAL RECORDINGS"

Last Update: February 2019

Laboratory of Visual Cognition, Faculty of Medicine, University of Crete

Supervisor:

G.Gregoriou, Associate Professor, Medical School, University of Crete (gregoriou@uoc.gr)

Summary: Off-line analysis in MATLAB of macaque prefrontal cortex (PFC) electrophysiological activity regarding the PFC relationship to attention.

05/2017 – 09/2017

LAB ROTATION

“IN VITRO/IN SILICO STUDY OF THE ROLE OF PHYSIOLOGICAL FACTORS AFFECTING TUMOR GROWTH IN PRIMARY GLIOBLASTOMA CELL LINES”

Computational Bio-Medicine Lab (CBML), Institute of Computer Science (ICS), Foundation for Research and Technology-Hellas (F.O.R.T.H.)

Supervisor:

V. Sakkalis, Principal Researcher, Computational Bio-Medicine Lab, ICS, F.O.R.T.H. (sakkalis@ics.forth.gr)

Summary:

In Vitro/In Silico study of physiological characteristics of Glioblastoma (GB). Parametrization and validation of a hybrid discrete-continuous patient-specific computational model based on theoretical and experimental results.

09/2015 – 07/2016

BACHELOR THESIS

“COGNITIVE FLEXIBILITY IN ADOLESCENT AND ADULT MICE”

Neurophysiology and Behavior Lab, Dept. of Biology, University of Crete

Supervisor:

K. Sidiropoulou, Assistant Professor in Neurophysiology, Dept. of Biology, University of Crete (sidirop@uoc.gr)

Summary: Development of the Attentional Set-Shifting Task behavioral protocol in order to study the cognitive flexibility in adolescent and adult mice.

07/2015 – 09/2015

INTERNSHIP

Molecular and Cellular Cognition Lab, German Center for Neurodegenerative Diseases (DZNE), Research Center Caesar, Bonn, Germany

Supervisor:

D. Ehninger, Principal Investigator, Molecular and Cellular Cognition Lab, German Center for Neurodegenerative Diseases (DZNE), Research Center Caesar, Bonn, Germany (dan.ehninger@dzne.de)

Summary: Brief training on basic Molecular Biology techniques (Western Blot, PCR etc.) and biological image analysis using Cell Profiler.

03/2015 – 06/2015

LAB ROTATION

Neurophysiology and Behavior Lab, Dept. of Biology, University of Crete

Supervisor:

K. Sidiropoulou, Assistant Professor in Neurophysiology, Dept. of Biology, University of Crete (sidirop@uoc.gr)

Summary: Video Analysis of behavioral experiments using JWatcher.

2012

VOLUNTARY LAB ROTATION

Natural History Museum of Crete

Supervisor:

P. Lympereakis, Curator of Vertebrates at the Natural History Museum of Crete (lyberis@nhmc.uoc.gr)

Summary: Species classification of birds and small mammals.

SCHOLARSHIPS

10/2018 – Present: Graduate Fellowship funded by F.O.R.T.H.

PUBLICATIONS

Oraiopoulou M.E., **Tampakaki M.**, Tzamali E., Tamiolakis T., Makatounakis V., Vakis F. A., Zacharakis G., Sakkalis V., Papamatheakis J., *“The T98G Glioblastoma cell line phenotypic characterization”*, Tissue and Cell, Elsevier, **2018**. (Under Review)

PARTICIPATION IN CONFERENCES

Tampakaki M., Oraiopoulou M.E., Psycharakis S., Tzamali E., Sakkalis V., Zacharakis G., Papamatheakis J., (2019), *“Light Sheet Fluorescence Microscopy Imaging of promyelocytic leukemia protein physiologic effects on the U87MG Glioblastoma cell line”*, 14th European Molecular Imaging Meeting (EMIM), Glasgow, Scotland, UK

CONFERENCES ATTENDED

1. Dendrites **2016**, EMBO Workshop on Dendritic Anatomy, Molecules and Function
2. 66^o Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Βιοχημείας και Μοριακής Βιολογίας **2015**
3. Ημερίδα «Προγεννητικός Έλεγχος & Ιατρική του Εμβρύου» της Ελληνικής Εταιρείας Περιγεννητικής Ιατρικής **2014**
4. Εκπαιδευτική Ημερίδα «Από τα εμβρυικά βλαστοκύτταρα στα κύτταρα του ομφάλιου λώρου. Δυνατότητες και προοπτικές» της Επιστημονικής Εταιρείας Φοιτητών Ιατρικής Ελλάδος (Ε.Ε.Φ.Ι.Ε.) **2014**
5. DENDRITES **2014**, 4th NAMASEN Training Workshop on Dendrites
6. 63^o Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Βιοχημείας και Μοριακής Βιολογίας **2012**
7. 6th International Particle Physics Masterclasses **2010**, Προχωρημένα μαθήματα Φυσικής Σωματιδίων για μαθητές Λυκείου

SKILLS

- **Computational Skills**
 - Excellent knowledge of Microsoft Office
 - Good Knowledge of Fiji, MATLAB
 - Experience in JWatcher, Cell Profiler
 - Familiar with Python
- **Languages**
 - Greek: Native
 - English: Certificate of Proficiency (ECPE-C2), University of Michigan and Edexcel, Level 5; *Daily Practice*
 - German: : Goethe-Zertifikat, B2; *Periodical Practice*
- **Other Skills and Interests**
 - Basic training in animal handling, animal house facilities and laboratory safety
 - Driving License Category B
 - Classical and contemporary dance, Theater and Drawing