

Alexandra Tzilivaki

NeuroCure Cluster of Excellence and Einstein Foundation PhD Fellow 2017

Alexander C. Onassis Foundation Scholar 2015-2017

Google Scholar 2015

Lindau Nobel Laureate Meeting Young Scientist 2014.

Personal information

Date of Birth: April 10th, 1993

Place of Birth: Chania Crete, Greece

Nationality: Greek

Place of Residence: Berlin, Germany

Marital status: Single

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Email: alexandra_tzilivaki@imbb.forth.gr alexandra.tzilivaki@charite.de

Education

Doctor of Philosophy (PhD) in Neuroscience. 2018-present

Charité – Universitätsmedizin, Einstein Center for Neurosciences Berlin and NeuroCure cluster of Excellence.

PhD advisor: Prof. Dietmar Schmitz.

Master in Science (MSc) in Molecular Biology and Biomedicine Honors.

First selected Top 1% among all applicants. 2015-2017

University of Crete. Department of Biology & School of Medicine, Institute of Molecular Biology and Biotechnology (IMBB) - Foundation for Research and Technology Hellas (FORTH).

MSc Thesis advisor: Dr. Panayiota Poirazi.

Bachelor Degree (BSc) in Biology. Honors.

Graduated first out of all on graduation ceremony July 17th 2015. 2011-2015 University of Crete. Department of Biology

BSc thesis advisor: Dr. Panayiota Poirazi

Scientific Publications

A) Original Research Articles:

1) **Tzilivaki A.** and Poirazi P. 2017 (under revision).

Challenging the point neuron dogma: FS interneurons as two stage integrators. (preprint doi: <https://doi.org/10.1101/251314>)

2) Psarrou M, Stefanou SS, Papoutsi A, **Tzilivaki A**, Cutsuridis V and Poirazi P (2014) A simulation study on the effects of dendritic morphology on layer V prefrontal pyramidal cell firing behavior. *Front. Cell. Neurosci.* 8:287. doi: [10.3389/fncel.2014.00287](https://doi.org/10.3389/fncel.2014.00287)

B) Conference Publications:

1) **Tzilivaki A.** and Poirazi P.(2018) “Challenging the point neuron dogma: FS interneurons as two layer integrators.” Federation for European Neuroscience Societies Meeting. (FENS 2018)

2)Filipi L., Ait Ouares K., **Tzilivaki A.**, Poirazi P. and Canepari M.(2018) “The dendritic Ca²⁺ and K⁺ currents associated with the climbing fibre synaptic potential in the cerebellar Purkinje neuron” Federation for European Neuroscience Societies Meeting. (FENS 2018)

3) **Tzilivaki A**, Stefanou SS, Poirazi P. (2016) Poster presentation. “Two stage integration features in PV FS Neocortical Interneuron.” Federation for European Neuroscience Societies Meeting. (FENS FORUM 2016) Copenhagen, Denmark.

4)**Tzilivaki A**, Stefanou SS, Poirazi P. (2016) Poster presentation. “Neocortical Fast Spiking Basket cells present supralinear and sublinear dendrites ”DENDRITES 2016 EMBO Workshop. FORTH Heraklion Crete, Greece.

5)**Tzilivaki A**, Stefanou SS, Poirazi P. (2015) Poster presentation “Dendritic operations in a detailed biophysical model of a Parvalbumin interneuron.” Federation for European Neuroscience Societies Regional Annual Meeting 2015 (FFRM 2015). Thessaloniki Greece.

6)Psarrou M., Stefanou S.S., **Tzilivaki A.**,Papoutsi A., Cutsuridis V.,Poirazi P. A simulation study on the effects of dendritic morphology on layer V PFC pyramidal cell firing behavior, AREADNE (2014), Research in Encoding and Decoding of Neural Ensembles, Santorini.

Invited Talks and Presentations:

TEDx speaker. TEDx Chania. November 11th 2017. Title: “The Mitos of the Brain: For the labyrinth of memories to computational neuron models.”



Honors and Awards



October 2017

Einstein Foundation PhD Fellowship 2017.

For PhD research in Einstein Center in Neurosciences Berlin Germany based on academic excellence



October 2015
- 2017

Alexander C. Onassis Benefit Foundation Scholarship

For MSc studies in UoC, based on academic excellence.



July 2016

Travel Grant for best poster Presentation in **FENS Forum 2016**

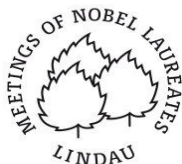
Awarded by the **Hellenic Society for Neurosciences (HSfN)**.



May 2015
- 2016

Google Europe Scholarship.

First selected Fellow across Europe and Israel. The application has been evaluated by Google, based on academic excellence, leadership skills and demonstrated passion for Computer Science.



June 2014

Young Scientist. 64th Lindau Nobel Laureates Meeting.

Selected Young Researcher participant to attend the **64th Lindau Nobel Laureates Meeting** dedicated Physiology and Medicine.

Nominated and funded by Alexander C. Onassis Benefit Foundation.

October 2013

Vardinoyianneio Foundation Undergraduate Scholarship.

For BSc studies in Biology. Based on academic excellence.

Selected Press Releases:

November 2017 News article about the invited talk in TEDx Chania 2017 (in Greek)

<http://www.haniotika-nea.gr/apokaliptonte-ta-mistika-tis-mnimis/>

May 2015 Press Release in FENS website about the Google Scholarship

<http://www.fens.org/Outreach/FENS-Kavli-Network-of-Excellence-OLD2/News-Events/Awards/Google-EMEA-Scholarship-awarded-to-a-student-in-the-Yiota-Poirazis-lab/>

Press Release in FORTH IMBB website (in Greek) http://www.imbb.forth.gr/news/290515_Poirazi_gr.pdf

Academic and Professional Memberships

- 1) Organization for Computational Neuroscience (OCNS). January 2016-present.
- 2) Federation for European Neuroscience Societies (FENS). May 2016 -present.
- 3) Hellenic Society For Neurosciences (HSN). May 2016 -present.

Student Supervision

- 1) Epistimi Anna Makedona. BSc thesis student. Biology Department University of Crete
Thesis title: Modelling a reduced morphology FS interneuron with active dendrites.
November 2017-present
- 2) Luiza Filipi. PhD candidate Laboratory of Interdisciplinary Physics (LiPhy) of the Grenoble University. February-June 2017.
- 3) Achilleas Adamopoulos. Research Intern Student. Physics Dept. University of Crete.
November 2016 -July 2017.

Volunteer Experience

- 1) Fanourakio Institute (Children's Care Home Institute) January 2013-present Teacher. Assisting hosted children with family problems. Helping kids with their elementary school subjects. Organizing and performing various creative activities (theatrical play, music).
- 2) I liahtida Nonprofit Association for supporting children with cancer. Summer 2014. Assistance in financial and advertisement department.
- 3) OFEAK: Student Association for blood donation at the University of Crete. 2012-2014

4) Researcher's Night (Marie-Curie event) 2014-2017. IMBB FORTH.

Other Activities and Interests

1) Author in local newspapers and blogs.