

Electra Tsaglioti



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EDUCATION

*Heraklion, Crete,
2022*

Master of Science (MSc) in Protein Biotechnology, UoC (9,70/10)
Evolab, P.I.: Dr. Pavlos Pavlidis, Institute of Computer Science (ICS), FORTH
MSc Thesis: “Domain based prediction of human Protein-Protein Interactions”

*Athens,
2019*

Bachelor of Science (BSc) in Biology, NKUA (7,28/10)
Bioinformatics Lab, P.I: Dr. Vassiliki Iconomidou, Section of Cell Biology and Biophysics
BSc Thesis: “Analysis of missense SNPs in human peripheral membrane proteins with Membrane Binding Domains”

WORK EXPERIENCE IN RESEARCH

*December 2023 - Today
Heraklion, Crete*

Research Technician, Bioinformatics - Gene Control Mechanisms Lab
Institute of Molecular Biology and Biotechnology (IMBB), FORTH

RESEARCH ROTATIONS AND INTERNSHIPS

*August - Oct. 2020
Heraklion, Crete*

Research rotation - Evolab, P.I.: Dr. Pavlos Pavlidis
Research scope: “Computational analysis of NMDA receptor expression patterns”
Institute of Computer Science (ICS), Foundation of Research and Technology (FORTH)

*May - July 2020
Heraklion, Crete*

Research rotation - Enzyme Technology Lab, P.I.: Dr. Ioannis Pavlidis
Research scope: “Bioinformatic analysis of cytochromes P450”
Department of Chemistry, University of Crete

*January 2019 -
May 2019
Valencia, Spain*

Erasmus+ Traineeships - Instituto de Agroquímica y Tecnología de Alimentos, Dr. Andrew McCabe
Research scope: “Molecular analysis of pectin Deconstruction by *Aspergillus nidulans*”
Instituto de Agroquímica y Tecnología de Alimentos (IATA), CSIC

*July 2017 -
September 2017
Heraklion, Crete*

Internship Trainee - Minotech Biotechnology, Dr. Dimitris Koutsioulis
Institute of Molecular Biology and Biotechnology (IMBB), FORTH

WORK EXPERIENCE IN INDUSTRY

*November 2022 -
November 2023
Heraklion, Crete*

Quality Assurance and Regulatory Affairs Officer - EnzyQuest P.C.
Support of EN ISO 9001:2015, EN ISO 13485:2016, Decision ΔΥ88/Γ.Π.ο.κ.130648, Directive IVDD / 98/79 / EC and Good Manufacturing Practices (GMP)

*February -
November 2022*

Quality Assurance and Regulatory Affairs Assistant

*September 2022 -
November 2022
Heraklion, Crete*

Purchasing dpt. employee - EnzyQuest P.C.
Procurement of materials and supplies, recording of orders in the ERP system (Soft1)

*July - September 2021
Corfu*

Biologist - EnzyQuest P.C. / Raptis Lab / K. Emergencies
Head of microbiology lab in day care health center for COVID-19 detection through Reverse-Transcriptase Quantitative PCR (RT-qPCR)

TEACHING EXPERIENCE

Fall semester, 2020

Teaching Assistant - "General Methods of Genetics and Microbiology"
Biology department, University of Crete

Spring semester, 2018

Teaching Assistant - "Bioinformatics"
Biology Department, National and Kapodistrian University of Athens

SKILLS

Bioinformatics: Genomics data analysis (RNAseq, ChIPseq, ATACseq, nascent RNA, Pathway and Gene Set Enrichment Analyses), Machine Learning (shallow and deep learning)

Biostatistics: PCA, t-test, Chi-squared test, Bootstrapping

Programming Languages: python, R, perl, bash

Other computer skills: High Performance Computing (HPC), Linux/Unix systems, awk, sed, LaTeX, YASARA, PyMOL, Chimera, SnapGene, Microsoft Office (Excel, Word, PowerPoint)

Molecular Biology: Basic molecular biology techniques (DNA/RNA/protein extraction, PCR, qPCR, plasmid DNA isolation - cloning, gel electrophoresis)

LANGUAGES

English (bilingual / mother tongue)

- Certificate of Proficiency in English - University of Cambridge - Grade A (2011)

PUBLICATIONS & POSTER TALKS

- Konstantina Chanoumidou, Ioanna Zota, Maria Anna Papadopoulou, Chrystalla Konstantinou, Alexandros Tsimpolis, **Electra Tsagliotis**, Maria Tziortziou, Katerina Ntarntani, Anne Grünewald, Matthieu David Lavigne, Achille Gravanis, Ioannis Charalampopoulos Targeting p75NTR activity alleviates the neurotoxic effect of high glucose on iPSC-derived dopaminergic neurons, 22 September 2025, PREPRINT (Version 1) available at Research Square <https://doi.org/10.21203/rs.3.rs-7184834/v1>
- p75 Neurotrophin Receptor Shapes the Dynamics of Adult Hippocampal Neurogenesis in Alzheimer's Disease Maria Anna Papadopoulou, Konstantina Chanoumidou, Maria Peteinareli, **Electra Tsaglioti**, Konstantina Michalaki, Matthieu D. Lavigne, Ioannis Charalampopoulos bioRxiv 2025.09.11.675537; doi: <https://doi.org/10.1101/2025.09.11.675537>
- Efstratiou, P., Damianaki, A., Kavidopoulou, A., Ioannidou, P., Markaki, E., Skianis, I. M., **Tsagliotis, E.**, Kaliafentaki, V., Mattheakakis, A., Ximeri, M., Manouras, E., Lavigne, M., Verginis, P., & Kalpadakis, C. (2025). Myeloid-derived suppressor cells exhibit distinct characteristics in bone marrow and blood of individuals with diffuse large B-cell lymphoma. *Frontiers in Medicine*, 11. <https://doi.org/10.3389/fmed.2024.1515097z>
- "Domain based prediction of human Protein-Protein Interactions", **Electra Tsaglioti**, Matthieu Lavigne, Pavlos Pavlidis, Machine Learning for Evolutionary Genomics Data, 2024
- "Analysis of missense SNPs in human peripheral membrane proteins with Membrane Binding Domains", **Electra G. Tsaglioti**, Katerina C. Nastou, Zoi I. Litou and Vassiliki A. Iconomidou, Hellenic Society for Computational Biology and Bioinformatics, 2021

CONFERENCES & SEMINARS *(Indicative)*

- Volos Summer School of Human Genetics, University of Thessaly & Helmholtz Munich (2024)
- Design of Websites and Applications - Unicert (June 2023 - July 2023)

SCHOLARSHIPS

- Erasmus+ Traineeships Funding (4 months, 1/2019- 5/2019)

OTHER INTERESTS

- Bachelor of Arts (BA) in English Language and Literature, NKUA - **pending** (current GPA 8.88/10)