



Elena Karydi

 Address: Aretha 31, 26442, Patras, Greece

 Phone: +30 6980166860

 Date of birth: 30/12/2000

 Email Address:
karydielena@gmail.com

up1065244@upnet.gr

 LinkedIn: Elena Karydi

Education

2025-present	PhD Candidate Department of Medicine, University of Patras Supervisor: Lygerou Zoi
2022-2024	Postgraduate student MSc "Biomedical Sciences", Department of Medicine, University of Patras Diploma thesis: "Pharmacological targeting of cells with DNA replication licensing aberrations for the study of novel synthetic lethal interactions" Supervisor: Lygerou Zoi Grade: 9.55
2021-2022	Thesis: "Construction of a stably transfected HeLa cell line for the expression of Geminin protein fused with mCherry ₂ " Laboratory of General Biology, Department of Medicine, University of Patras Supervisor: Lygerou Zoi
2018-2022	Department of Biology, University of Patras Undergraduate Student Grade: 9,41 (1st of the year)

Language skills

Greek: native language
English: C2 level, excellent knowledge and communication
Cambridge Michigan Language Assessment (CaMLA) degree
French: very good knowledge and communication
Sorbonne B2 degree

Computer skills

Office (Word, Excel, PowerPoint), Google tools (Google drive, Google groups), ImageJ/Fiji, SPSS, ImageLab, FlowJo, Adobe Illustrator

Laboratory techniques

Molecular biology: agarose gel electrophoresis, Western blotting, immunofluorescence, use of fluorescent microscopes (widefield and confocal), PCR, qPCR, CRISPR/Cas9, clonogenic assay, DNA fiber assay, flow cytometry
Cell culture: transfection, incubation of cells with drugs
General techniques: sterilization, filtration, preparation of solutions, disinfection of equipment, data analysis

Scholarships-awards

October 2026-April 2027	Bodossaki Foundation scholarship for visiting researchers.
2023-2024	Onassis Foundation scholarship for postgraduate studies.
2022	Award from the University of Patras, due to graduation as 1st of the year (grade: 9,41)
2019-2020	Scholarship of the George & Angeliki Skouras Public Benefit Foundation for my academic performance this year (Grade:9,28)

Publications

"FANCD2 restrains fork progression and prevents fragility at early replicating origins upon re-replication".

Badra-Fajardo, N., Karydi, E., Bayona-Feliu, A. et al. FANCD2 restrains fork progression and prevents fragility at early origins upon re-replication. *Nat Commun* 17, 2478 (2026).

<https://doi.org/10.1038/s41467-026-68966-4>

Conferences-seminars

- 5-7 December 2025 Poster at the 75th Panhellenic Conference of Biochemistry & Molecular Biology
"Targeting Replication Licensing Machinery for the Development of Cancer-Specific Therapeutic Approaches", Elena Karydi, Chara Papalouka, Nibal Badra-Fajardo, Stavros Taraviras, Zoi Lygerou
- 13-15 December 2024 Short talk at the 74th Panhellenic Conference of Biochemistry & Molecular Biology
"Pharmacological targeting of cells with DNA replication licensing aberrations for the study of novel synthetic lethal interactions", Elena Karydi, Nibal Badra-Fajardo, Ourania Preza, Stavros Taraviras, Zoi Lygerou
Poster at the 74th Panhellenic Conference of Biochemistry & Molecular Biology
"Investigation of synthetic lethal interactions in cells with impaired DNA repair mechanisms and aberrant DNA replication licensing", Vasiliki Asteria Lympedopoulou, Pinelopi Moloni, Chara Papalouka, Evi Koutsis, Nibal Badra-Fajardo, Elena Karydi, Stavros Taraviras, Zoi Lygerou
- 1-3 December 2023 Poster at the 73rd Panhellenic Conference of Biochemistry & Molecular Biology
"Identification of novel synthetic lethal interactions in cancer cells with DNA replication licensing aberrations", Elena Karydi, Nibal Badra-Fajardo, Ourania Preza, Stavros Taraviras, Zoi Lygerou
- 30 November 2023 Poster at the 10th Young Scientists Workshop of the Hellenic Society of Biochemistry and Molecular Biology
"Identification of novel synthetic lethal interactions in cancer cells with DNA replication licensing aberrations", Elena Karydi, Nibal Badra-Fajardo, Ourania Preza, Stavros Taraviras, Zoi Lygerou
- October 2023- Member of the Hellenic Society of Molecular Biology and Biochemistry
- 2-4 December 2022 Poster at the 72nd Panhellenic Conference of Biochemistry & Molecular Biology
"Mcdas cell cycle regulation is necessary for genome integrity", Spyridoula Bournaka, Marina Arbi, Stavroula Tsaridou, Vicky Petroulaki, Elena Karydi, Stavros Taraviras, Zoi Lygerou
- 13-15 May 2022 Short talk at the Conference "Applications of Precision Medicine in Oncology"
"Tumor agnostic therapies in cancer."

Work experience

- November 2024- December 2025 Research Associate in the field of Molecular Biology
Laboratory of General Biology, Department of Medicine, University of Patras
Title of Contract: "Identification of gametic series mutations in homologous recombination genes in peripheral blood"
- September 2023- October 2024 Participation in committees of the HAHE, for the evaluation of the Postgraduate Programmes of greek universities
- July-August 2022 Practical Training at the E.KE.B.E. "Alexandros Fleming".
Scientific Advisor: Kostourou Vasiliki
Position title: "Study of cellular endothelial connections using molecular techniques"
Techniques: immunofluorescence in cells and tumor sections, cell culture methods, DNA isolation, PCR, electrophoresis

Volunteering

- 2022-present Member of the core team of the TEDx Patras volunteer group.
- 2018-present TEDx Patras 2025 "Once Upon Tomorrow", TEDx Patras 2023 "Bridging Within", TEDx Patras 2022 "Metamorphosis", TEDx Patras 2019 "Uncertainty", TEDx Patras 2018 "Values", Patras Patras Science Festival 2019, Patras
- 8-11 May 2019