



Short Curriculum Vitae: Vasiliki E Fadouloglou

Current Position:	Associate Professor of Molecular Biology with emphasis on Structural Biology at the Department of Molecular Biology and Genetics. Head of Laboratory of Biomolecular Structure & Biophysical Analysis.
Undergraduate Education:	B.Sc. in Chemistry, Univ. of Athens.
Post-graduate Education:	M.Sc. in Molecular Biology & Biotechnology, Univ. of Crete. Ph.D. in Structural Biology, Univ. of Crete.
Areas of Interest	<ul style="list-style-type: none">• Structural Biology, Studies of structure/function relationships in biological macromolecules.• Protein Biochemistry and Enzymatic Catalysis.• Structure/function relationship of non-coding RNAs.
Distinctions and Bibliometric data	<ul style="list-style-type: none">• Fellowships/Scholarships: (1) Marie Curie Actions/Early-stage training, Univ. of Leeds (2001); (2) Post-doctoral Fellowship, Greek State Scholarships Foundation (2007-2008); (3) Marie Curie Actions/Intra-Europe Fellowships, Univ. of Cambridge (2009-2010).• Supervisor of 2 M.Sc. theses, 13 B.Sc. theses, Advisor committee member in 2 Ph.D. and 9 M.Sc. theses.• 11 abstracts in international and local conference proceedings (after 2020)• 31 publications in peer-reviewed international journals (first author in 13, last author in 9).• >500 citations (Scopus), <i>h-index</i> 10 (Scopus) (02/10/2024)
Funding	<ul style="list-style-type: none">• Participation in 2 funded competitive research projects as a member:<ol style="list-style-type: none">1. <i>InTechThrace: Integrated Technologies in biomedical research: multilevel biomarker analysis in Thrace. Operational Program "Competitiveness, Entrepreneurship & Innovation, 2014-2020 (EPAnEK)". (member, 2022-2023);</i>2. <i>POLYPEPPHARM: Improved generic polypeptide drugs with innovative pharmaceutical forms. Operational Programme "Competitiveness, Entrepreneurship and Innovation, 2014-2020 (EPAnEK)". (member, 2021-2023).</i>• Personal fellowships:<ol style="list-style-type: none">1. <i>Advancing young researchers' human capital in cutting edge technologies in the preservation of cultural heritage: Structure-based approaches to drugs targeting Bacillus anthracis. ARCHERS/ Stavros Niarchos Foundation. (Personal fellowship, 2018).</i>2. <i>Supporting Post-doctoral Researchers Programme. GSRT (NSRF 2007-</i>

2013, LS1/3258). (Personal fellowship, 2012-2015)

3. *Structural and functional studies of the interaction between non coding RNAs and the RNA polymerase (RNAP). EU, Marie Curie Actions/European Reintegration Grants FP7-PEOPLE-2010-RG. (Personal fellowship, 2011-2014).*

**Representative
recent
publications**

1. Litso, I., Plaitakis, A., **Fadouloglou, V.E.**, ... Kokkinidis, M., Zaganas, I. (2024). Structural Evolution of Primate Glutamate Dehydrogenase 2 as Revealed by In Silico Predictions and Experimentally Determined Structures. *Biomolecules*, 14(1), 22
 2. Molfetas, A.S., Boutris, N., Tomatsidou, A., Kokkinidis, M., **Fadouloglou, V.E.** (2024). Variations of the NodB Architecture Are Attuned to Functional Specificities into and beyond the Carbohydrate Esterase Family 4. *Biomolecules*, 2024, 14(3), 325
 3. Makraki, E., Miliara, S., Pagkalos, M., ... Mylonas, E., **Fadouloglou, V.E.** (2023). Probing the conformational changes of in vivo overexpressed cell cycle regulator 6S ncRNA. *Frontiers in Molecular Biosciences*, 10, 1219668
 4. Xanthis V, Mantso T, Dimtsi A, Pappa A, **Fadouloglou VE.** Human Aldehyde Dehydrogenases: A Superfamily of Similar Yet Different Proteins Highly Related to Cancer. *Cancers (Basel)*. 2023 Sep 4;15(17):4419. doi: 10.3390/cancers15174419. PMID: 37686694.
 5. Amprazi, M., Tomatsidou, A., Paliogianni, D., **Fadouloglou, V.E.** (2021). Post-translational modifications: Host defence mechanism, pathogenic weapon, and emerged target of anti-infective drugs. *Frontiers in Anti-infective Drug Discovery*, 9, pp. 25–122
 6. Dimovasili, C., **Fadouloglou, V.E.**, Kefala, A., ... Zaganas, I., Kokkinidis, M. Crystal structure of glutamate dehydrogenase 2, a positively selected novel human enzyme involved in brain biology and cancer pathophysiology. *Journal of Neurochemistry*, 157(3), pp. 802–815
 7. Gazi, A.D., Kokkinidis, M., **Fadouloglou, V.E.** (2021). α -Helices in the Type III Secretion Effectors: A Prevalent Feature with Versatile Roles. *International Journal of Molecular Sciences*, 22(11), 5412
 8. Kokkinidis, M., Glykos, N.M. & **Fadouloglou V.E.** (2020), Catalytic activity regulation through post-translational modification: the expanding universe of protein diversity, *Adv. Protein Chem. Struct. Biol.*, **122**, 97-125.
 9. **Fadouloglou V.E.**, Balomenou S., Aivaliotis M., Kotsifaki D., Arnaouteli S., Efstathiou G., Kountourakis N., Tsalafouta A., Miliara S., Tomatsidou A., Griniezaki M., Pergantis S.A., Ivo G. Boneca, Glykos N.M., Bouriotis V., Kokkinidis M. (2017) An unusual α -carbon hydroxylation of proline promotes active-site maturation, *J. Am Chem Soc.* **139**, 5330-5337.
 10. **Fadouloglou V.E.**, Lin H-T, Tria G., Hernández H., Robinson C.V., Svergun D.I., Luisi B.F. (2015) Maturation of 6S regulatory RNA to a highly elongated structure, *FEBS J.* 282, 4548-64.
 11. **Fadouloglou V.E.** (2013) Electroelution of nucleic acids from polyacrylamide gels: A custom-made, agarose-based electroeluter *Analytical Biochemistry* **437**, pp. 49-51.
 12. Kokkinidis M., Glykos N.M. & **Fadouloglou V.E.** (2012) Protein flexibility and enzymatic catalysis. Book chapter in *Advances in Protein Chemistry and Structural Biology* **87**, 181-218.
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