

## CURRICULUM VITAE

**Name :** Elias Eliopoulos    **Date of birth :** 15.6.1958    **Nationality :** Greek

Prof. Elias Eliopoulos leads the bioinformatics group of the Biotechnology Department of the Agricultural University of Athens. A biophysicist/crystallographer by training has considerable experience in biomolecular structure analysis, epitope mapping of protein receptors by experimental and computational methods, protein structure prediction, ligand and drug design, protein design, *in silico* antibody design and biosoftware development. The bioinformatics group has experience and international reputation on computational protein folding, ab initio and homology modeling of proteins derived from edge gene research and membrane protein modeling.

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**Degrees :** Honours degree in Physics from Athens University 1976-80.  
PhD Thesis in Biophysics (Leeds University) with title : "The Structure of beta-Lactoglobulin and the development of Computer Programs for the Study of Molecular Conformations and Interactions." 1980-84.

### Research Interests:

Protein structure and conformation.(Function and Modelling).  
Molecular graphics and Molecular Mechanics.  
Crystallography of Biomolecules (Protein and small organic).  
Image Capture and Analysis. Applications in Biology and Agriculture.  
Database Applications in Biochemistry and Agriculture.  
Animal Genetic Engineering and Molecular Evolution.  
Interaction of natural and artificial chemical agents with biomolecules.

### Research experience :

4-year postgraduate research in Biophysics Protein Conformation Analysis; Molecular Graphics Systems; Molecular Mechanics; Small Molecule and Protein X-ray crystallography and Computer Science Graphics systems.  
2.5-years Postdoctoral research funded by the British Medical Research Council in collaboration with Wellcome Pharmaceuticals on the X-ray structure of Mouse L1210 Dihydrofolate Reductase.  
3.5 year Research Fellowship funded by the Molecular Recognition Initiative to work on Parallel Computing and applications to Molecular Graphics, Recognition and Folding.  
1 year as a visiting scientist in the Agricultural University of Athens (Informatics Laboratory) to work on Plant Protection and Pesticides databases and molecular recognition of plant protection agents.  
3 years as an Assistant Professor in Biochemistry in the Dept. of Agricultural Biology and Biotechnology of AUA.

### Posts held:

5 years as an Assistant Professor in the Dept. of Agricultural Biology and Biotechnology of AUA.  
5 years as an Associate Professor in the Dept. of Agricultural Biology and Biotechnology of AUA.  
12 year as a Full Professor in the Genetics Laboratory of the Dept. of Biotechnology of AUA. (Present Post).  
6 years as the Director of the Genetics Laboratory (Present Post).  
4 years as the Head of Department of Biotechnology

### Teaching Experience:

5 years teaching Protein Conformation, Molecular Modelling and computing to Biophysics and Biochemistry students.  
22 years teaching Numerical Analysis, Computing, Protein Structure and Function, Biochemistry, Biological Databases, Molecular recognition, Evolution, Genetic Engineering and Animal Biotechnology to agricultural engineers and agronomists and agricultural biotechnologists.

**Publications:** Over 90 papers in international journals. Total I.F. 215, >2500 citations

1.Matalliotakis M, Zervou MI, **Eliopoulos E**, Matalliotaki C, Rahmioglu N, Kalogiannidis I, Zondervan K, Spandidos DA, Matalliotakis I, Goulielmos GN. (2018) The role of IL- 16 gene polymorphisms in endometriosis. *Int J Mol Med.* 41(3):1469-1476.

2. Giastas P, Andreou A, Papakyriakou A, Koutsoulis D, Balomenou S, Tzartos SJ, Bouriotis V, **Eliopoulos EE**. (2018) Structures of the Peptidoglycan N-Acetylglucosamine Deacetylase Bc1974 and Its Complexes with Zinc Metalloenzyme Inhibitors. *Biochemistry* 6;57(5):753-763.
3. Mettou A, Papanephytous C, Melagraki G, Maranti A, Liepouri F, Alexiou P, Papakyriakou A, Couladouros E, **Eliopoulos E**, Afantitis A, Kontopidis G (2018) Aqueous Solubility Enhancement for Bioassays of Insoluble Inhibitors and QSPR Analysis: A TNF- $\alpha$  Study.. *SLAS Discov.* 23(1):84-93.
4. Zervou MI, Dimopoulou DG, **Eliopoulos E**, Trachana M, Pratsidou-Gkertsis P, Andreou A, Sidiropoulos P, Spandidos DA, Garyfallos A, Goulielmos GN.(2017) The genetics of juvenile idiopathic arthritis: Searching for new susceptibility loci.*Mol Med Rep.* 16(6):8793-8798.
5. Thanarajasingam U, Jensen MA, Dorschner JM, Wampler Muskardin T, Ghodke-Puranik Y, Purmalek M, **Eliopoulos E**, Zervou MI, Goulielmos GN, Howard M, Kaplan MJ, Niewold TB.(2017) Brief Report: A Novel ELANE Mutation Associated With Inflammatory Arthritis, Defective NETosis, and Recurrent Parvovirus Infection. *Arthritis Rheumatol.* 69(12):2396-2401.
6. Ghodke-Puranik Y, Dorschner JM, Vsetecka DM, Amin S, Makol A, Ernste F, Osborn T, Moder K, Chowdhary V, **Eliopoulos E**, Zervou MI, Goulielmos GN, Jensen MA, Niewold TB (2017) Lupus-Associated Functional Polymorphism in PNP Causes Cell Cycle Abnormalities and Interferon Pathway Activation in Human Immune Cells. *Arthritis Rheumatol.* 69(12):2328-2337.
7. Georgakis ND, Karagiannopoulos DA, Thireou TN, **Eliopoulos EE**, Labrou NE, Tsoungas PG, Koutsilieris MN, Clonis YD.(2017) Concluding the trilogy: The interaction of 2,2'-dihydroxy-benzophenones and their carbonyl N-analogues with human glutathione transferase M1-1 face to face with the P1-1 and A1-1 isoenzymes involved in MDR. *Chem Biol Drug Des.* 90(5):900-908.
8. Myrthianou E, Zervou MI, Budu-Aggrey A, **Eliopoulos E**, Kardassis D, Boumpas DT, Kougkas N, Barton A, Sidiropoulos P, Goulielmos GN (2017) Investigation of the genetic overlap between rheumatoid arthritis and psoriatic arthritis in a Greek population.. *Scand J Rheumatol.* 46(3):180-186.
9. Zompra A, Georgakis N, Pappa E, Thireou T, **Eliopoulos E**, Labrou N, Cordopatis P, Clonis Y.(2016) Glutathione analogues as substrates or inhibitors that discriminate between allozymes of the MDR-involved human glutathione transferase P1-1.*Biopolymers.* 106(3):330-44
10. Pouliou FM, Thireou TN, **Eliopoulos EE**, Tsoungas PG, Labrou NE, Clonis YD.(2015) Isoenzyme- and allozyme-specific inhibitors: 2,2'-dihydroxybenzophenones and their carbonyl N-analogues that discriminate between human glutathione transferase A1-1 and P1-1 allozymes. *Chem Biol Drug Des.* 86(5):1055-63.
11. Arnaouteli S, Giastas P, Andreou A, Tzanodaskalaki M, Aldridge C, Tzartos SJ, Vollmer W, **Eliopoulos E**, Bouriotis V (2015) Two Putative Polysaccharide Deacetylases Are Required for Osmotic Stability and Cell Shape Maintenance in Bacillus anthracis. *J Biol Chem.* 22;290(21):13465-78.
12. Alexiou P, Papakyriakou A, Ntougkos E, Papanephytous CP, Liepouri F, Mettou A, Katsoulis I, Maranti A, Tsiliouka K, Strongilos A, Chaitidou S, Douni E, Kontopidis G, Kollias G, Couladouros E, **Eliopoulos E** (2014) Rationally designed less toxic SPD-304 analogs and preliminary evaluation of their TNF inhibitory effects.. *Arch Pharm (Weinheim).* 347(11):798-805.
13. Ioakeimidis F, Ott C, Kozjak-Pavlovic V, Violitzi F, Rinotas V, Makrinou E, **Eliopoulos E**, Fasseas C, Kollias G, Douni E. (2014) A splicing mutation in the novel mitochondrial protein DNAJC11 causes motor neuron pathology associated with cristae disorganization, and lymphoid abnormalities in mice. *PLoS One* 11;9(8):e104237.
14. Kouvatsos N, Niarchos A, Zisimopoulou P, **Eliopoulos E**, Poulas K, Tzartos S.(2014) Purification and functional characterization of a truncated human  $\alpha 4\beta 2$  nicotinic acetylcholine receptor. *Int J Biol Macromol.* 70:320-6.

15. Perperopoulou FD, Tsoungas PG, Thireou TN, Rinotas VE, Douni EK, **Eliopoulos EE**, Labrou NE, Clonis YD. (2014) 2,2'-Dihydroxybenzophenones and their carbonyl N-analogues as inhibitor scaffolds for MDR-involved human glutathione transferase isoenzyme A1-1. *Bioorg Med Chem.* 1;22(15):3957-70.
16. Tsitsanou KE, Drakou CE, Thireou T, Vitlin Gruber A, Kythreoti G, Azem A, Fessas D, **Eliopoulos E**, Iatrou K, Zographos SE. (2013) Crystal and solution studies of the "Plus-C" odorant-binding protein 48 from *Anopheles gambiae*: control of binding specificity through three-dimensional domain swapping. *J Biol Chem.* 15;288(46):33427-38
17. Zoi OG, Thireou TN, Rinotas VE, Tsoungas PG, **Eliopoulos EE**, Douni EK, Labrou NE, Clonis YD. (2013) Designer xanthone: an inhibitor scaffold for MDR-involved human glutathione transferase isoenzyme A1-1. *J Biomol Screen.* 18(9):1092-102.
18. Vazgiourakis VM, Zervou MI, **Eliopoulos E**, Sharma S, Sidiropoulos P, Franek BS, Myrthianou E, Melissourgaki M, Niewold TB, Boumpas DT, Goulielmos GN (2013) Implication of VEGFR2 in systemic lupus erythematosus: a combined genetic and structural biological approach. *Clin Exp Rheumatol.* 31(1):97-102.
19. Koutsoumpli GE, Dimaki VD, Thireou TN, **Eliopoulos EE**, Labrou NE, Varvounis GI, Clonis YD (2012) Synthesis and study of 2-(pyrrolesulfonylmethyl)-N-arylimines: a new class of inhibitors for human glutathione transferase A1-1. *J Med Chem.* 9;55(15):6802-13.
20. Rusconi B, Maranhao AC, Fuhrer JP, Krotee P, Choi SH, Grun F, Thireou T, Dimitratos SD, Woods DF, Marinotti O, Walter MF, **Eliopoulos E** (2012) Mapping the *Anopheles gambiae* odorant binding protein 1 (AgamOBP1) using modeling techniques, site directed mutagenesis, circular dichroism and ligand binding assays. *Biochim Biophys Acta.* 1824(8):947-53.
21. Douni E, Rinotas V, Makrinou E, Zwerina J, Penninger JM, **Eliopoulos E**, Schett G, Kollias G. Hum (2012) A RANKL G278R mutation causing osteopetrosis identifies a functional amino acid essential for trimer assembly in RANKL and TNF. *Mol Genet.* 15;21(4):784-98.
22. Tsitsanou KE, Thireou T, Drakou CE, Koussis K, Keramioti MV, Leonidas DD, **Eliopoulos E**, Iatrou K, Zographos SE (2012) *Anopheles gambiae* odorant binding protein crystal complex with the synthetic repellent DEET: implications for structure-based design of novel mosquito repellents. *Cell Mol Life Sci.* 69(2):283-97.
23. **Eliopoulos E**, Zervou MI, Andreou A, Dimopoulou K, Cosmidis N, Voloudakis G, Mysirlaki H, Vazgiourakis V, Sidiropoulos P, Niewold TB, Boumpas DT, Goulielmos GN (2011) Association of the PTPN22 R620W polymorphism with increased risk for SLE in the genetically homogeneous population of Crete. *Lupus* 20(5):501-6.
24. Goulielmos GN, Petraki E, Vassou D, **Eliopoulos E**, Iliopoulos D, Sidiropoulos P, Aksentijevich I, Kardassis D, Boumpas DT (2010). The role of the pro-apoptotic protein Siva in the pathogenesis of Familial Mediterranean fever: A structural and functional analysis. *Biochem Biophys Res Commun.* 5;402(1):141-6.
25. Biessmann H, Andronopoulou E, Biessmann MR, Douris V, Dimitratos SD, **Eliopoulos E**, Guerin PM, Iatrou K, Justice RW, Kröber T, Marinotti O, Tsitoura P, Woods DF, Walter MF (2010). The *Anopheles gambiae* odorant binding protein 1 (AgamOBP1) mediates indole recognition in the antennae of female mosquitoes. *PLoS One.* 1;5(3):e9471.
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27. Cosmidis N, Goulielmos G, Eliopoulos E, Loukas M (2008). Selection at 6-PGD locus in laboratory populations of *Bactrocera oleae*. *Genet Res (Camb)* 90(5):379-84.
28. Zouridakis M, Zisimopoulou P, **Eliopoulos E**, Poulas K, Tzartos SJ (2009). Design and expression of human alpha7 nicotinic acetylcholine receptor extracellular domain mutants with enhanced solubility and ligand-binding properties. *Biochim Biophys Acta.* 1794(2):355-66.
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31. Meramveliotaki C, Kotsifaki D, Androulaki M, Hountas A, **Eliopoulos E**, Kokkinidis M (2007). Purification, crystallization, X-ray diffraction analysis and phasing of an engineered single-chain PvuII restriction endonuclease. *Acta Crystallogr Sect F* 63:836-8.
32. Zouridakis M, Kostelidou K, Sotiriadis A, Stergiou C, **Eliopoulos E**, Poulas K, Tzartos SJ (2007). Circular dichroism studies of extracellular domains of human nicotinic acetylcholine receptors provide an insight into their structure. *Int J Biol Macromol.* 1;41(4):423-9.
33. Thireou T, Atlamazoglou V, Levakis M, **Eliopoulos E**, Hountas A, Tsoucaris G, Bethanis K (2007). CrystTwiv: a webserver for automated phase extension and refinement in X-ray crystallography. *Nucleic Acids Res.* 35 (Web Server issue):W718-22.
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38. Goulielmos GN, Cosmidis N, **Eliopoulos E**, Loukas M, Zouros E (2006). Cloning and structural characterization of the 6-phosphogluconate dehydrogenase locus of the medfly *Ceratitis capitata* and the olive fruit fly *Bactrocera oleae*. *Biochem Biophys Res Commun.* 17;341(3):721-7.
39. Kosmas SA, Argyrokastritis A, Loukas MG, **Eliopoulos E**, Tsakas S, Kaltsikes PJ (2006). Isolation and characterization of drought-related trehalose 6-phosphate-synthase gene from cultivated cotton (*Gossypium hirsutum* L.). *Planta* 223(2):329-39.
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45. **Eliopoulos E**, Goulielmos GN, Loukas M (2004). Functional constraints of alcohol dehydrogenase (ADH) of tephritidae and relationships with other Dipteran species. *J Mol Evol.* 58(5):493-505.
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48. Arhontaki K, **Eliopoulos E**, Goulielmos G, Kastanis P, Tsakas S, Loukas M, Ayala F (2002). Functional constraints of the Cu,Zn superoxide dismutase in species of the *Drosophila melanogaster* subgroup and phylogenetic analysis. *J Mol Evol.* 55(6):745-56.
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(*Η παράνω εργασία βραβεύθηκε με το Α΄ Βραβείο «Σωτήρης Παπασταμάτης», κατά το Πανελλήνιο Ιατρικό Συνέδριο 1998*)
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