

# Elias E Eliopoulos

## List of Publications by Year in descending order

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112  
papers

3,895  
citations

201674

27  
h-index

128289

60  
g-index

116  
all docs

116  
docs citations

116  
times ranked

3346  
citing authors

#	ARTICLE	IF	CITATIONS
1	The structure of $\beta^2$ -lactoglobulin and its similarity to plasma retinol-binding protein. <i>Nature</i> , 1986, 324, 383-385.	27.8	935
2	Crystal structure of the trigonal form of bovine beta-lactoglobulin and of its complex with retinol at 2.5 Å... resolution. <i>Journal of Molecular Biology</i> , 1987, 197, 695-706.	4.2	348
3	The <i>Anopheles gambiae</i> Odorant Binding Protein 1 (AgamOBP1) Mediates Indole Recognition in the Antennae of Female Mosquitoes. <i>PLoS ONE</i> , 2010, 5, e9471.	2.5	214
4	Posttranslational processing of concanavalin A precursors in jackbean cotyledons.. <i>Journal of Cell Biology</i> , 1986, 102, 1284-1297.	5.2	195
5	Three-dimensional modelling of G protein-linked receptors. <i>Trends in Pharmacological Sciences</i> , 1990, 11, 492-499.	8.7	139
6	Structure and function of bovine $\beta^2$ -lactoglobulin. <i>Biochemical Society Transactions</i> , 1985, 13, 265-266.	3.4	89
7	<i>Anopheles gambiae</i> odorant binding protein crystal complex with the synthetic repellent DEET: implications for structure-based design of novel mosquito repellents. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 283-297.	5.4	89
8	The structure of mouse L1210 dihydrofolate reductase-drug complexes and the construction of a model of human enzyme. <i>FEBS Letters</i> , 1987, 218, 178-184.	2.8	88
9	Structure of a 16 kDa integral membrane protein that has identity to the putative proton channel of the vacuolar H <sup>+</sup> -ATPase. <i>Protein Engineering, Design and Selection</i> , 1992, 5, 7-15.	2.1	84
10	A structural model for the chromophore-binding domain of ovine rhodopsin. <i>International Journal of Biological Macromolecules</i> , 1982, 4, 263-268.	7.5	77
11	Isolation and characterization of drought-related trehalose 6-phosphate-synthase gene from cultivated cotton ( <i>Gossypium hirsutum</i> L.). <i>Planta</i> , 2006, 223, 329-339.	3.2	71
12	Nicotinic Cholinergic System and COVID-19: In Silico Identification of an Interaction between SARS-CoV-2 and Nicotinic Receptors with Potential Therapeutic Targeting Implications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5807.	4.1	70
13	Multiple sequence alignment of protein families showing low sequence homology: a methodological approach using database pattern-matching discriminators for G-protein-linked receptors. <i>Gene</i> , 1991, 98, 153-159.	2.2	56
14	Complete sequence and model for the A2 subunit of the carotenoid pigment complex, crustacyanin. <i>FEBS Journal</i> , 1991, 197, 407-417.	0.2	56
15	A RANKL G278R mutation causing osteopetrosis identifies a functional amino acid essential for trimer assembly in RANKL and TNF. <i>Human Molecular Genetics</i> , 2012, 21, 784-798.	2.9	55
16	A structural model for ovine rhodopsin. <i>International Journal of Biological Macromolecules</i> , 1984, 6, 73-76.	7.5	49
17	T-cell recognition of HLA-DQ2-bound gluten peptides can be influenced by an N-terminal proline at p-1. <i>Immunogenetics</i> , 2005, 57, 8-15.	2.4	49
18	Nicotinic cholinergic system and COVID-19: In silico identification of interactions between $\beta^7$ nicotinic acetylcholine receptor and the cryptic epitopes of SARS-Co-V and SARS-CoV-2 Spike glycoproteins. <i>Food and Chemical Toxicology</i> , 2021, 149, 112009.	3.6	46

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19	Nicotinic cholinergic system and COVID-19: In silico evaluation of nicotinic acetylcholine receptor agonists as potential therapeutic interventions. <i>Toxicology Reports</i> , 2021, 8, 73-83.	3.3	43
20	Crystal and Solution Studies of the $\alpha$ -Plus-C $\alpha$ -Odorant-binding Protein 48 from <i>Anopheles gambiae</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 33427-33438.	3.4	42
21	A Splicing Mutation in the Novel Mitochondrial Protein DNAJC11 Causes Motor Neuron Pathology Associated with Cristae Disorganization, and Lymphoid Abnormalities in Mice. <i>PLoS ONE</i> , 2014, 9, e104237.	2.5	42
22	Association of the PTPN22 R620W polymorphism with increased risk for SLE in the genetically homogeneous population of Crete. <i>Lupus</i> , 2011, 20, 501-506.	1.6	41
23	Complete amino acid sequence of pyrazine-binding protein from cow nasal mucosa. <i>FEBS Journal</i> , 1989, 185, 569-572.	0.2	39
24	Complete sequence and model for the C1 subunit of the carotenoprotein crustacyanin, and model for the dimer, beta-crustacyanin, formed from the C1 and A2 subunits with astaxanthin. <i>FEBS Journal</i> , 1991, 202, 31-40.	0.2	39
25	Two Putative Polysaccharide Deacetylases Are Required for Osmotic Stability and Cell Shape Maintenance in <i>Bacillus anthracis</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 13465-13478.	3.4	34
26	Molecular modelling for the design of chimaeric biomimetic dye <sup>+</sup> ligands and their interaction with bovine heart mitochondrial malate dehydrogenase. <i>Biochemical Journal</i> , 1996, 315, 695-703.	3.7	33
27	Identification of novel bioinspired synthetic mosquito repellents by combined ligand-based screening and OBP-structure-based molecular docking. <i>Insect Biochemistry and Molecular Biology</i> , 2018, 98, 48-61.	2.7	32
28	Transcription factors and evolution: An integral part of gene expression (Review). <i>World Academy of Sciences Journal</i> , 0, , .	0.6	30
29	Universal positions in globular proteins. From observation to simulation. <i>FEBS Journal</i> , 2004, 271, 4762-4768.	0.2	28
30	Familial Mediterranean Fever in Crete: a genetic and structural biological approach in a population of $\alpha$ -intermediate risk <sup>TM</sup> . <i>Clinical Genetics</i> , 2008, 73, 152-159.	2.0	28
31	Expression of selected drought-related genes and physiological response of Greek cotton varieties. <i>Functional Plant Biology</i> , 2002, 29, 1237.	2.1	28
32	Rationally Designed Less Toxic SPD $\alpha$ 304 Analogs and Preliminary Evaluation of Their TNF Inhibitory Effects. <i>Archiv Der Pharmazie</i> , 2014, 347, 798-805.	4.1	26
33	Cell size of various lactic acid bacteria as determined by scanning electron microscope and image analysis. <i>Dairy Science and Technology</i> , 1998, 78, 491-500.	0.9	25
34	Mutational analysis of the PRYSPRY domain of pyrin and implications for familial mediterranean fever (FMF). <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 1326-1332.	2.1	24
35	Lupus $\alpha$ -Associated Functional Polymorphism in <i>PNP</i> Causes Cell Cycle Abnormalities and Interferon Pathway Activation in Human Immune Cells. <i>Arthritis and Rheumatology</i> , 2017, 69, 2328-2337.	5.6	24
36	Construction and characterization of a humanized single chain Fv antibody fragment against the main immunogenic region of the acetylcholine receptor. <i>Journal of Neuroimmunology</i> , 1999, 94, 182-195.	2.3	23

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37	Dye-affinity labelling of bovine heart mitochondrial malate dehydrogenase and study of the NADH-binding site. <i>Biochemical Journal</i> , 1996, 315, 687-693.	3.7	22
38	Rat relaxin: insulin-like fold predicts a likely receptor binding region. <i>International Journal of Biological Macromolecules</i> , 1982, 4, 399-405.	7.5	21
39	Design and expression of human $\alpha 7$ nicotinic acetylcholine receptor extracellular domain mutants with enhanced solubility and ligand-binding properties. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 355-366.	2.3	20
40	2,2'-Dihydroxybenzophenones and their carbonyl N-analogues as inhibitor scaffolds for MDR-involved human glutathione transferase isoenzyme A1-1. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 3957-3970.	3.0	20
41	Endometriosis research in the -omics era. <i>Gene</i> , 2020, 741, 144545.	2.2	20
42	Synthesis, crystal structure and biological properties of a new series of lipophilic s-triazines, dihydrofolate reductase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 1993, 28, 149-158.	5.5	18
43	Structures of the Peptidoglycan <i>N</i> -Acetylglucosamine Deacetylase Bc1974 and Its Complexes with Zinc Metalloenzyme Inhibitors. <i>Biochemistry</i> , 2018, 57, 753-763.	2.5	18
44	RGD sequences in several receptor proteins: novel cell adhesion function of receptors?. <i>International Journal of Biological Macromolecules</i> , 1998, 22, 51-57.	7.5	17
45	Brief Report: A Novel ELANE Mutation Associated With Inflammatory Arthritis, Defective NETosis, and Recurrent Parvovirus Infection. <i>Arthritis and Rheumatology</i> , 2017, 69, 2396-2401.	5.6	17
46	Concluding the trilogy: The interaction of 2,2'-dihydroxybenzophenones and their carbonyl N-analogues with human glutathione transferase M1 face to face with the P1 and A1 isoenzymes involved in MDR. <i>Chemical Biology and Drug Design</i> , 2017, 90, 900-908.	3.2	16
47	Chapter 3 The primary structure, chemistry and molecular modelling of rhodopsin. <i>Progress in Retinal and Eye Research</i> , 1988, 7, 63-87.	0.8	15
48	Isoenzyme- and Allozyme-specific Inhibitors: 2,2'-Dihydroxybenzophenones and Their Carbonyl N-analogues that Discriminate between Human Glutathione Transferase A1 and P1 Allozymes. <i>Chemical Biology and Drug Design</i> , 2015, 86, 1055-1063.	3.2	15
49	The role of IL-16 gene polymorphisms in endometriosis. <i>International Journal of Molecular Medicine</i> , 2018, 41, 1469-1476.	4.0	15
50	Structural analysis of two HLA-DR-presented autoantigenic epitopes: crucial role of peripheral but not central peptide residues for T-cell receptor recognition. <i>Molecular Immunology</i> , 2000, 37, 813-825.	2.2	14
51	Crystal structure of Fab198, an efficient protector of the acetylcholine receptor against myasthenogenic antibodies. <i>FEBS Journal</i> , 2001, 268, 3685-3693.	0.2	14
52	Investigation of the genetic overlap between rheumatoid arthritis and psoriatic arthritis in a Greek population. <i>Scandinavian Journal of Rheumatology</i> , 2017, 46, 180-186.	1.1	14
53	Structural and Evolutionary Insights within the Polysaccharide Deacetylase Gene Family of <i>Bacillus anthracis</i> and <i>Bacillus cereus</i> . <i>Genes</i> , 2018, 9, 386.	2.4	14
54	Association of the DNASE1L3 rs35677470 polymorphism with systemic lupus erythematosus, rheumatoid arthritis and systemic sclerosis: Structural biological insights. <i>Molecular Medicine Reports</i> , 2020, 22, 4492-4498.	2.4	14

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55	Macroevolutionary relationships of species of <i>Drosophila melanogaster</i> group based on mtDNA sequences. <i>Molecular Phylogenetics and Evolution</i> , 2003, 28, 518-528.	2.7	13
56	Mapping the <i>Anopheles gambiae</i> Odorant Binding Protein 1 (AgamOBP1) using modeling techniques, site directed mutagenesis, circular dichroism and ligand binding assays. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 947-953.	2.3	13
57	Synthesis and Study of 2-(Pyrrolo-sulfonylmethyl)- <i>N</i> -arylimines: A New Class of Inhibitors for Human Glutathione Transferase A1-1. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6802-6813.	6.4	13
58	Thermodynamic, crystallographic and computational studies of non-mammalian fatty acid binding to bovine $\beta$ -Lactoglobulin. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 296-303.	7.5	13
59	An updated evolutionary study of the Notch family reveals a new ancient origin and novel invariable motifs as potential pharmacological targets. <i>PeerJ</i> , 2020, 8, e10334.	2.0	13
60	<i>Drosophila</i> Cu,Zn superoxide dismutase gene confers resistance to paraquat in <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 433-438.	2.1	12
61	Synthesis and biological evaluation of potential small molecule inhibitors of tumor necrosis factor. <i>MedChemComm</i> , 2015, 6, 1196-1209.	3.4	12
62	Functional Constraints of the Cu,Zn Superoxide Dismutase in Species of the <i>Drosophila melanogaster</i> Subgroup and Phylogenetic Analysis. <i>Journal of Molecular Evolution</i> , 2002, 55, 745-756.	1.8	11
63	Insights on the alteration of functionality of a tyrosine kinase 2 variant: a molecular dynamics study. <i>Bioinformatics</i> , 2018, 34, i781-i786.	4.1	11
64	Functional Constraints of 6-Phosphogluconate Dehydrogenase (6-PGD) Based on Sequence and Structural Information. <i>Journal of Molecular Evolution</i> , 2004, 59, 358-371.	1.8	9
65	Circular dichroism studies of extracellular domains of human nicotinic acetylcholine receptors provide an insight into their structure. <i>International Journal of Biological Macromolecules</i> , 2007, 41, 423-429.	7.5	9
66	Model of the extracellular domain of the human $\alpha 7$ nAChR based on the crystal structure of the mouse $\alpha 1$ nAChR extracellular domain. <i>Journal of Molecular Graphics and Modelling</i> , 2008, 26, 1333-1337.	2.4	9
67	Implication of VEGFR2 in systemic lupus erythematosus: a combined genetic and structural biological approach. <i>Clinical and Experimental Rheumatology</i> , 2013, 31, 97-102.	0.8	9
68	Increased risk of rheumatoid arthritis in patients with endometriosis: genetic aspects. <i>Rheumatology</i> , 2022, 61, 4252-4262.	1.9	9
69	Designer Xanthone: An Inhibitor Scaffold for MDR-Involved Human Glutathione Transferase Isoenzyme A1-1. <i>Journal of Biomolecular Screening</i> , 2013, 18, 1092-1102.	2.6	8
70	Molecular modelling of integral membrane proteins. <i>Biochemical Society Transactions</i> , 1990, 18, 838-840.	3.4	7
71	Analysis of fragments induced by simulated lattice protein folding. <i>Comptes Rendus - Biologies</i> , 2004, 327, 431-443.	0.2	7
72	Conserved functional motifs of the nuclear receptor superfamily as potential pharmacological targets. , 2021, 1, .		7

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73	Molecular modeling of the complex between Torpedo acetylcholine receptor and anti-MIR Fab198. <i>Biochemical and Biophysical Research Communications</i> , 2007, 356, 569-575.	2.1	6
74	The role of the pro-apoptotic protein Siva in the pathogenesis of Familial Mediterranean fever: A structural and functional analysis. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 141-146.	2.1	6
75	Glutathione analogues as substrates or inhibitors that discriminate between allozymes of the MDR $\alpha$ -involved human glutathione transferase P1 $\alpha$ 1. <i>Biopolymers</i> , 2016, 106, 330-344.	2.4	6
76	The genetics of juvenile idiopathic arthritis: Searching for new susceptibility loci. <i>Molecular Medicine Reports</i> , 2017, 16, 8793-8798.	2.4	6
77	Molecular and clinical spectrum of four pedigrees of TRAPS in Greece: results from a national referral center. <i>Rheumatology</i> , 2020, 59, 1241-1246.	1.9	6
78	Discovery of Small-Molecule Inhibitors of Receptor Activator of Nuclear Factor- $\kappa$ B Ligand with a Superior Therapeutic Index. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 12043-12059.	6.4	6
79	Isolation and characterization of stress related Heat shock protein calmodulin binding gene from cultivated cotton ( <i>Gossypium hirsutum</i> L.). <i>Euphytica</i> , 2006, 147, 343-351.	1.2	5
80	Demetra Application: An integrated genotype analysis web server for clinical genomics in endometriosis. <i>International Journal of Molecular Medicine</i> , 2021, 47, .	4.0	5
81	Clinical Genomic, phenotype and epigenetic insights into the pathology, autoimmunity and weight management of patients with Myasthenia Gravis (Review). <i>Molecular Medicine Reports</i> , 2021, 24, .	2.4	5
82	Role of adenosine deaminase 2 gene variants in pediatric deficiency of adenosine deaminase 2: A structural biological approach. <i>Molecular Medicine Reports</i> , 2020, 21, 876-882.	2.4	5
83	A Holistic Evolutionary and 3D Pharmacophore Modelling Study Provides Insights into the Metabolism, Function, and Substrate Selectivity of the Human Monocarboxylate Transporter 4 (hMCT4). <i>International Journal of Molecular Sciences</i> , 2021, 22, 2918.	4.1	4
84	Functional Constraints of Alcohol Dehydrogenase (ADH) of Tephritidae and Relationships with Other Dipteran Species. <i>Journal of Molecular Evolution</i> , 2004, 58, 493-505.	1.8	3
85	Cloning and structural characterization of the 6-phosphogluconate dehydrogenase locus of the medfly <i>Ceratitis capitata</i> and the olive fruit fly <i>Bactrocera oleae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 721-727.	2.1	3
86	Purification, crystallization, X-ray diffraction analysis and phasing of an engineered single-chain Pvull restriction endonuclease. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 836-838.	0.7	3
87	Aqueous Solubility Enhancement for Bioassays of Insoluble Inhibitors and QSPR Analysis: A TNF- $\alpha$ Study. <i>SLAS Discovery</i> , 2018, 23, 84-93.	2.7	3
88	An updated evolutionary study of the nuclear receptor protein family. <i>World Academy of Sciences Journal</i> , 2021, 3, .	0.6	3
89	Epione application: An integrated web toolkit of clinical genomics and personalized medicine in systemic lupus erythematosus. <i>International Journal of Molecular Medicine</i> , 2021, 49, .	4.0	3
90	CrystTwiv: a webserver for automated phase extension and refinement in X-ray crystallography. <i>Nucleic Acids Research</i> , 2007, 35, W718-W722.	14.5	2

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91	Purification and functional characterization of a truncated human $\alpha 4\beta 2$ nicotinic acetylcholine receptor. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 320-326.	7.5	2
92	Carcinogenic Pesticide Control via Hijacking Endosymbiosis; The Paradigm of DSB-A from <i>Wolbachia pipientis</i> for the Management of <i>Otiorhynchus singularis</i> . <i>In Vivo</i> , 2018, 32, 1051-1062.	1.3	2
93	Functional Significance of the C324R Mutation Examined Using a Structural Biological Approach. <i>Journal of Rheumatology</i> , 2019, 46, 654-655.	2.0	2
94	COVID-19 global social lockdowns: Energy-related, psychological, epigenetic, health and environmental impacts (Review). <i>International Journal of Epigenetics</i> , 2021, 1, .	0.5	2
95	Structural Study of the DNA: Clock/Bmal1 Complex Provides Insights for the Role of Cortisol, hGR, and HPA Axis in Stress Management and Sleep Disorders. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1195, 59-71.	1.6	2
96	Complete sequence and model for the A2 subunit of the carotenoid pigment complex, crustacyanin. <i>FEBS Journal</i> , 1991, 197, 413-417.	0.2	1
97	Crustacyanin, the lobster carapace astaxanthin-protein: effects of modification of tyrosine residues of apocrustacyanin with tetranitromethane on the ability of the protein to reconstitute with astaxanthin. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1995, 110, 393-401.	1.6	1
98	Quantitative Prediction of Critical Amino Acid Positions for Protein Folding. <i>Protein and Peptide Letters</i> , 2009, 16, 1342-1349.	0.9	1
99	The putative polysaccharide deacetylase Ba0331: cloning, expression, crystallization and structure determination. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 312-320.	0.8	1
100	Identification and characterization of a rare variant in apolipoprotein A-IV, p.(V336M), and evaluation of HDL functionality in a Greek cohort with extreme HDL cholesterol levels. <i>Archives of Biochemistry and Biophysics</i> , 2020, 696, 108655.	3.0	1
101	On the origins of life: A molecular and a cellular journey driven by genentropy. <i>International Journal of Epigenetics</i> , 2021, 1, .	0.5	1
102	Materials of biological origin and biofuels: Small environmental footprint and epigenetic impact (Review). <i>International Journal of Epigenetics</i> , 2021, 1, .	0.5	1
103	Comment on: homozygous variant p. Arg90His in NCF1 is associated with early-onset interferonopathy: a case report. <i>Pediatric Rheumatology</i> , 2021, 19, 125.	2.1	1
104	Antibody Clustering Using a Machine Learning Pipeline that Fuses Genetic, Structural, and Physicochemical Properties. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1194, 41-58.	1.6	1
105	RGDtrip: A Database for the Investigation of Proteins Containing the RGD Tripeptide. <i>Current Bioinformatics</i> , 2018, 13, 518-528.	1.5	1
106	Drugena: A Fully Automated Immunoinformatics Platform for the Design of Antibody-Drug Conjugates Against Neurodegenerative Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1194, 203-215.	1.6	1
107	Hippo(crates): An integrated atlas for natural product exploration through a state-of-the-art pipeline in cheminformatics. <i>World Academy of Sciences Journal</i> , 2021, 4, .	0.6	1
108	Recombinant extracellular domains of human neuronal nicotinic receptors: Preliminary studies on mutant forms for the improvement of solubility. <i>Neurophysiology</i> , 2007, 39, 259-263.	0.3	0

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109	Selection at 6-PGD locus in laboratory populations of <i>Bactrocera oleae</i> . <i>Genetical Research</i> , 2008, 90, 379-384.	0.9	0
110	Pharmaceutical disruption of B2GPI CXCL4 complex using computationally designed oligopeptides. , 2017, , .		0
111	Ancestral cancer genes shaping evo-devo: An integrated biochemical and computational approach (Review). <i>World Academy of Sciences Journal</i> , 0, , .	0.6	0
112	Correspondence on NCF1-339 polymorphism is associated with altered formation of neutrophil extracellular traps, high serum interferon activity and antiphospholipid syndrome in systemic lupus erythematosus™ by Linge et al. <i>Annals of the Rheumatic Diseases</i> , 2022, , annrhumdis-2021-221871.	0.9	0