

Panagiostis Katsonis

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,656
citations

304743

22
h-index

138484

58
g-index

65
all docs

65
docs citations

65
times ranked

7679
citing authors

#	ARTICLE	IF	CITATIONS
1	A general calculus of fitness landscapes finds genes under selection in cancers. <i>Genome Research</i> , 2022, , gr.275811.121.	5.5	7
2	Genome interpretation using in silico predictors of variant impact. <i>Human Genetics</i> , 2022, 141, 1549-1577.	3.8	26
3	Evolutionary action of mutations reveals antimicrobial resistance genes in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2022, 13, .	12.8	11
4	Uncovering DNA-PKcs ancient phylogeny, unique sequence motifs and insights for human disease. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 163, 87-108.	2.9	45
5	Structure and evolutionary trace-assisted screening of a residue swapping the substrate ambiguity and chiral specificity in an esterase. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 2307-2317.	4.1	6
6	Evolutionary action score identifies a subset of TP53 mutated myelodysplastic syndrome with favorable prognosis. <i>Blood Cancer Journal</i> , 2021, 11, 52.	6.2	5
7	Variants in PRKAR1B cause a neurodevelopmental disorder with autism spectrum disorder, apraxia, and insensitivity to pain. <i>Genetics in Medicine</i> , 2021, 23, 1465-1473.	2.4	10
8	A method to delineate de novo missense variants across pathways prioritizes genes linked to autism. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	19
9	Identification of evolutionarily stable functional and immunogenic sites across the SARS-CoV-2 proteome and greater coronavirus family. <i>Bioinformatics</i> , 2021, 37, 4033-4040.	4.1	6
10	Targeting SARS-CoV-2 Nsp3 macrodomain structure with insights from human poly(ADP-ribose) glycohydrolase (PARG) structures with inhibitors. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 163, 171-186.	2.9	39
11	PPAR-Responsive Elements Enriched with Alu Repeats May Contribute to Distinctive PPAR β –DNMT1 Interactions in the Genome. <i>Cancers</i> , 2021, 13, 3993.	3.7	2
12	An efficient chemical screening method for structure-based inhibitors to nucleic acid enzymes targeting the DNA repair-replication interface and SARS CoV-2. <i>Methods in Enzymology</i> , 2021, 661, 407-431.	1.0	2
13	An efficient chemical screening method for structure-based inhibitors to nucleic acid enzymes targeting the DNA repair-replication interface and SARS CoV-2. <i>Methods in Enzymology</i> , 2021, 661, 407-431.	1.0	4
14	Decoding Cancer Variants of Unknown Significance for Helicase–Nuclease–RPA Complexes Orchestrating DNA Repair During Transcription and Replication. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 791792.	3.5	4
15	Evolutionary Action Score Identifies a Subset of TP53 Mutated Myelodysplastic Syndrome with Favorable Prognosis. <i>Blood</i> , 2020, 136, 4-5.	1.4	0
16	Assessing predictions on fitness effects of missense variants in calmodulin. <i>Human Mutation</i> , 2019, 40, 1463-1473.	2.5	8
17	CAGI5: Objective performance assessments of predictions based on the Evolutionary Action equation. <i>Human Mutation</i> , 2019, 40, 1436-1454.	2.5	26
18	CAGI SickKids challenges: Assessment of phenotype and variant predictions derived from clinical and genomic data of children with undiagnosed diseases. <i>Human Mutation</i> , 2019, 40, 1373-1391.	2.5	10

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19	Assessment of blind predictions of the clinical significance of <i>BRCA1</i> and <i>BRCA2</i> variants. <i>Human Mutation</i> , 2019, 40, 1546-1556.	2.5	19
20	Assessing computational predictions of the phenotypic effect of cystathionine β -synthase variants. <i>Human Mutation</i> , 2019, 40, 1530-1545.	2.5	5
21	Assessment of predicted enzymatic activity of <i>N</i> -acetylglucosaminidase variants of unknown significance for CAGI 2016. <i>Human Mutation</i> , 2019, 40, 1519-1529.	2.5	10
22	Performance of computational methods for the evaluation of pericentriolar material 1 missense variants in CAGI ϵ 5. <i>Human Mutation</i> , 2019, 40, 1474-1485.	2.5	8
23	Mutational Landscape of the <i>BAP1</i> Locus Reveals an Intrinsic Control to Regulate the miRNA Network and the Binding of Protein Complexes in Uveal Melanoma. <i>Cancers</i> , 2019, 11, 1600.	3.7	30
24	Evaluating the predictions of the protein stability change upon single amino acid substitutions for the FXN CAGI5 challenge. <i>Human Mutation</i> , 2019, 40, 1392-1399.	2.5	16
25	Assessing the performance of in silico methods for predicting the pathogenicity of variants in the gene <i>CHEK2</i> , among Hispanic females with breast cancer. <i>Human Mutation</i> , 2019, 40, 1612-1622.	2.5	8
26	Assessment of methods for predicting the effects of <i>PTEN</i> and <i>TPMT</i> protein variants. <i>Human Mutation</i> , 2019, 40, 1495-1506.	2.5	16
27	Predicting venous thromboembolism risk from exomes in the Critical Assessment of Genome Interpretation (CAGI) challenges. <i>Human Mutation</i> , 2019, 40, 1314-1320.	2.5	10
28	Assessment of patient clinical descriptions and pathogenic variants from gene panel sequences in the CAGI ϵ 5 intellectual disability challenge. <i>Human Mutation</i> , 2019, 40, 1330-1345.	2.5	11
29	Comprehensive Genomic Characterization of Parathyroid Cancer Identifies Novel Candidate Driver Mutations and Core Pathways. <i>Journal of the Endocrine Society</i> , 2019, 3, 544-559.	0.2	40
30	Deleterious Effect of <i>RAS</i> and Evolutionary High-risk <i>TP53</i> Double Mutation in Colorectal Liver Metastases. <i>Annals of Surgery</i> , 2019, 269, 917-923.	4.2	121
31	Combinatorial inhibition of <i>PTPN12</i> -regulated receptors leads to a broadly effective therapeutic strategy in triple-negative breast cancer. <i>Nature Medicine</i> , 2018, 24, 505-511.	30.7	47
32	Gnathodiaphyseal dysplasia: Severe atypical presentation with novel heterozygous mutation of the anoctamin gene (<i>ANO5</i>). <i>Bone</i> , 2018, 107, 161-171.	2.9	23
33	Human muscle-specific A-kinase anchoring protein polymorphisms modulate the susceptibility to cardiovascular diseases by altering cAMP/PKA signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H109-H121.	3.2	10
34	<i>FARS2</i> deficiency; new cases, review of clinical, biochemical, and molecular spectra, and variants interpretation based on structural, functional, and evolutionary significance. <i>Molecular Genetics and Metabolism</i> , 2018, 125, 281-291.	1.1	28
35	Predicting phenotype from genotype: Improving accuracy through more robust experimental and computational modeling. <i>Human Mutation</i> , 2017, 38, 569-580.	2.5	36
36	Benchmarking predictions of allostery in liver pyruvate kinase in CAGI4. <i>Human Mutation</i> , 2017, 38, 1123-1131.	2.5	17

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37	Performance of in silico tools for the evaluation of p16INK4a (CDKN2A) variants in CAGI. Human Mutation, 2017, 38, 1042-1050.	2.5	13
38	Comprehensive and Integrative Genomic Characterization of Hepatocellular Carcinoma. Cell, 2017, 169, 1327-1341.e23.	28.9	1,794
39	Objective assessment of the evolutionary action equation for the fitness effect of missense mutations across CAGIâ€blind contests. Human Mutation, 2017, 38, 1072-1084.	2.5	26
40	Codon-level co-occurrences of germline variants and somatic mutations in cancer are rare but often lead to incorrect variant annotation and underestimated impact prediction. PLoS ONE, 2017, 12, e0174766.	2.5	4
41	Abstract 24010: Muscle-specific A-Kinase Anchoring Protein Polymorphisms Pre-dispose Humans to Cardiovascular Diseases by Affecting cyclic AMP/PKA Signaling. Circulation, 2017, 136, .	1.6	1
42	Protein stabilization improves STAT3 function in autosomal dominant hyper-IgE syndrome. Blood, 2016, 128, 3061-3072.	1.4	28
43	Cdkn2asuppresses metastasis in squamous cell carcinomas induced by the gain-of-function mutantp53R172H. Journal of Pathology, 2016, 240, 224-234.	4.5	27
44	REPURPOSING GERMLINE EXOMES OF THE CANCER GENOME ATLAS DEMANDS A CAUTIOUS APPROACH AND SAMPLE-SPECIFIC VARIANT FILTERING. , 2016, , .		10
45	REPURPOSING GERMLINE EXOMES OF THE CANCER GENOME ATLAS DEMANDS A CAUTIOUS APPROACH AND SAMPLE-SPECIFIC VARIANT FILTERING. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2016, 21, 207-18.	0.7	13
46	Specific TP53 Mutants Overrepresented in Ovarian Cancer Impact CNV, TP53 Activity, Responses to Nutlin-3a, and Cell Survival. Neoplasia, 2015, 17, 789-803.	5.3	37
47	Wee-1 Kinase Inhibition Overcomes Cisplatin Resistance Associated with High-Risk<i>TP53</i> Mutations in Head and Neck Cancer through Mitotic Arrest Followed by Senescence. Molecular Cancer Therapeutics, 2015, 14, 608-619.	4.1	97
48	Evolutionary Action Score of <i>TP53</i> Coding Variants Is Predictive of Platinum Response in Head and Neck Cancer Patients. Cancer Research, 2015, 75, 1205-1215.	0.9	78
49	Evolutionary Action Score of <i>TP53</i> Identifies High-Risk Mutations Associated with Decreased Survival and Increased Distant Metastases in Head and Neck Cancer. Cancer Research, 2015, 75, 1527-1536.	0.9	139
50	A formal perturbation equation between genotype and phenotype determines the Evolutionary Action of protein-coding variations on fitness. Genome Research, 2014, 24, 2050-2058.	5.5	122
51	Single nucleotide variations: Biological impact and theoretical interpretation. Protein Science, 2014, 23, 1650-1666.	7.6	94
52	Negative Feedback in Genetic Circuits Confers Evolutionary Resilience and Capacitance. Cell Reports, 2014, 7, 1789-1795.	6.4	20
53	Prediction and redesign of proteinâ€protein interactions. Progress in Biophysics and Molecular Biology, 2014, 116, 194-202.	2.9	25
54	Protein Kinase A and Phosphodiesterase-4D3 Binding to Coding Polymorphisms of Cardiac Muscle Anchoring Protein (mAKAP). Journal of Molecular Biology, 2013, 425, 3277-3288.	4.2	16

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55	Desmosterolosisâ€™ phenotypic and molecular characterization of a third case and review of the literature. <i>American Journal of Medical Genetics, Part A</i> , 2011, 155, 1597-1604.	1.2	52
56	Molecular defects in human carbamoy phosphate synthetase I: mutational spectrum, diagnostic and protein structure considerations. <i>Human Mutation</i> , 2011, 32, 579-589.	2.5	67
57	Separation of Recombination and SOS Response in <i>Escherichia coli</i> RecA Suggests LexA Interaction Sites. <i>PLoS Genetics</i> , 2011, 7, e1002244.	3.5	71
58	Mitochondrial Neurogastrointestinal Encephalopathy Due to Mutations in RRM2B. <i>Archives of Neurology</i> , 2009, 66, 1028-32.	4.5	103
59	Metastable Liquid Clusters in Super- and Undersaturated Protein Solutions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3106-3114.	2.6	112
60	Corresponding-States Laws for Protein Solutions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17638-17644.	2.6	21