

Emidio Capriotti

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

6,192
citations

159585

30
h-index

91884

69
g-index

90
all docs

90
docs citations

90
times ranked

7311
citing authors

#	ARTICLE	IF	CITATIONS
1	I-Mutant2.0: predicting stability changes upon mutation from the protein sequence or structure. <i>Nucleic Acids Research</i> , 2005, 33, W306-W310.	14.5	1,502
2	Predicting the insurgence of human genetic diseases associated to single point protein mutations with support vector machines and evolutionary information. <i>Bioinformatics</i> , 2006, 22, 2729-2734.	4.1	737
3	Functional annotations improve the predictive score of human disease-related mutations in proteins. <i>Human Mutation</i> , 2009, 30, 1237-1244.	2.5	552
4	The three-dimensional folding of the $\hat{\pm}$ -globin gene domain reveals formation of chromatin globules. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 107-114.	8.2	274
5	A three-state prediction of single point mutations on protein stability changes. <i>BMC Bioinformatics</i> , 2008, 9, S6.	2.6	267
6	WS-SNPs&GO: a web server for predicting the deleterious effect of human protein variants using functional annotation. <i>BMC Genomics</i> , 2013, 14, S6.	2.8	248
7	Bioinformatics challenges for personalized medicine. <i>Bioinformatics</i> , 2011, 27, 1741-1748.	4.1	223
8	Collective judgment predicts disease-associated single nucleotide variants. <i>BMC Genomics</i> , 2013, 14, S2.	2.8	213
9	A neural-network-based method for predicting protein stability changes upon single point mutations. <i>Bioinformatics</i> , 2004, 20, i63-i68.	4.1	161
10	Predicting protein stability changes from sequences using support vector machines. <i>Bioinformatics</i> , 2005, 21, ii54-ii58.	4.1	142
11	Phased Whole-Genome Genetic Risk in a Family Quartet Using a Major Allele Reference Sequence. <i>PLoS Genetics</i> , 2011, 7, e1002280.	3.5	137
12	PhD-SNPg: a webserver and lightweight tool for scoring single nucleotide variants. <i>Nucleic Acids Research</i> , 2017, 45, W247-W252.	14.5	132
13	DOME: recommendations for supervised machine learning validation in biology. <i>Nature Methods</i> , 2021, 18, 1122-1127.	19.0	105
14	Improving the prediction of disease-related variants using protein three-dimensional structure. <i>BMC Bioinformatics</i> , 2011, 12, S3.	2.6	94
15	Limitations and challenges in protein stability prediction upon genome variations: towards future applications in precision medicine. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1968-1979.	4.1	88
16	DDGun: an untrained method for the prediction of protein stability changes upon single and multiple point variations. <i>BMC Bioinformatics</i> , 2019, 20, 335.	2.6	81
17	All-atom knowledge-based potential for RNA structure prediction and assessment. <i>Bioinformatics</i> , 2011, 27, 1086-1093.	4.1	71
18	A new disease-specific machine learning approach for the prediction of cancer-causing missense variants. <i>Genomics</i> , 2011, 98, 310-317.	2.9	68

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19	Bioinformatics and variability in drug response: a protein structural perspective. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1409-1437.	3.4	66
20	K-Fold: a tool for the prediction of the protein folding kinetic order and rate. <i>Bioinformatics</i> , 2007, 23, 385-386.	4.1	63
21	Computational and Theoretical Methods for Protein Folding. <i>Biochemistry</i> , 2013, 52, 8601-8624.	2.5	63
22	Bioinformatics for personal genome interpretation. <i>Briefings in Bioinformatics</i> , 2012, 13, 495-512.	6.5	62
23	WALTZ-DB: a benchmark database of amyloidogenic hexapeptides. <i>Bioinformatics</i> , 2015, 31, 1698-1700.	4.1	61
24	Predicting protein stability changes upon single-point mutation: a thorough comparison of the available tools on a new dataset. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	57
25	RNA structure alignment by a unit-vector approach. <i>Bioinformatics</i> , 2008, 24, i112-i118.	4.1	46
26	Comparative Modeling: The State of the Art and Protein Drug Target Structure Prediction. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011, 14, 532-547.	1.1	42
27	Quantifying the relationship between sequence and three-dimensional structure conservation in RNA. <i>BMC Bioinformatics</i> , 2010, 11, 322.	2.6	38
28	Use of estimated evolutionary strength at the codon level improves the prediction of disease-related protein mutations in humans. <i>Human Mutation</i> , 2008, 29, 198-204.	2.5	37
29	Computational RNA Structure Prediction. <i>Current Bioinformatics</i> , 2008, 3, 32-45.	1.5	37
30	Integrating molecular networks with genetic variant interpretation for precision medicine. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2019, 11, e1443.	6.6	34
31	The WWWH of remote homolog detection: The state of the art. <i>Briefings in Bioinformatics</i> , 2006, 8, 78-87.	6.5	33
32	SARA: a server for function annotation of RNA structures. <i>Nucleic Acids Research</i> , 2009, 37, W260-W265.	14.5	33
33	VpreB serves as an invariant surrogate antigen for selecting immunoglobulin antigen-binding sites. <i>Science Immunology</i> , 2016, 1, .	11.9	29
34	Analysis and Interpretation of the Impact of Missense Variants in Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5416.	4.1	28
35	DDGun: an untrained predictor of protein stability changes upon amino acid variants. <i>Nucleic Acids Research</i> , 2022, 50, W222-W227.	14.5	28
36	Blind prediction of deleterious amino acid variations with SNPs&GO. <i>Human Mutation</i> , 2017, 38, 1064-1071.	2.5	24

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37	ContrastRank: a new method for ranking putative cancer driver genes and classification of tumor samples. <i>Bioinformatics</i> , 2014, 30, i572-i578.	4.1	22
38	SNP-SIG Meeting 2011: Identification and annotation of SNPs in the context of structure, function, and disease. <i>BMC Genomics</i> , 2012, 13, S1.	2.8	21
39	Using tertiary structure for the computation of highly accurate multiple RNA alignments with the SARA-Coffee package. <i>Bioinformatics</i> , 2013, 29, 1112-1119.	4.1	20
40	Protein Stability Perturbation Contributes to the Loss of Function in Haploinsufficient Genes. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 620793.	3.5	20
41	A Deep-Learning Sequence-Based Method to Predict Protein Stability Changes Upon Genetic Variations. <i>Genes</i> , 2021, 12, 911.	2.4	20
42	Computational methods and resources for the interpretation of genomic variants in cancer. <i>BMC Genomics</i> , 2015, 16, S7.	2.8	18
43	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
44	Characterization of human frataxin missense variants in cancer tissues. <i>Human Mutation</i> , 2019, 40, 1400-1413.	2.5	16
45	Hierarchical Mechanochemical Switches in Angiostatin. <i>ChemBioChem</i> , 2006, 7, 1774-1782.	2.6	14
46	Performance of in silico tools for the evaluation of p16INK4a (CDKN2A) variants in CAGI. <i>Human Mutation</i> , 2017, 38, 1042-1050.	2.5	13
47	A Shannon entropy-based filter detects high- quality profile-profile alignments in searches for remote homologues. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 54, 351-360.	2.6	12
48	In silico comparative characterization of pharmacogenomic missense variants. <i>BMC Genomics</i> , 2014, 15, S4.	2.8	11
49	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
50	Calibrating variant-scoring methods for clinical decision making. <i>Bioinformatics</i> , 2021, 36, 5709-5711.	4.1	10
51	Dynamics of the minimally frustrated helices determine the hierarchical folding of small helical proteins. <i>Physical Review E</i> , 2004, 69, 051905.	2.1	8
52	Assessing predictions on fitness effects of missense variants in calmodulin. <i>Human Mutation</i> , 2019, 40, 1463-1473.	2.5	8
53	Performance of computational methods for the evaluation of pericentriolar material 1 missense variants in CAGI. <i>Human Mutation</i> , 2019, 40, 1474-1485.	2.5	8
54	Assessing the performance of in silico methods for predicting the pathogenicity of variants in the gene CHEK2, among Hispanic females with breast cancer. <i>Human Mutation</i> , 2019, 40, 1612-1622.	2.5	8

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55	WebRASP: a server for computing energy scores to assess the accuracy and stability of RNA 3D structures. <i>Bioinformatics</i> , 2013, 29, 2649-2650.	4.1	7
56	Are machine learning based methods suited to address complex biological problems? Lessons from CAGI's challenges. <i>Human Mutation</i> , 2019, 40, 1455-1462.	2.5	6
57	ThermoScan: Semi-automatic Identification of Protein Stability Data From PubMed. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 620475.	3.5	6
58	Assessing computational predictions of the phenotypic effect of cystathionine- β -synthase variants. <i>Human Mutation</i> , 2019, 40, 1530-1545.	2.5	5
59	Turning Failures into Applications: The Problem of Protein 13C Prediction. <i>Methods in Molecular Biology</i> , 2022, 2449, 169-185.	0.9	5
60	Thoughts from SNP-SIG 2012: future challenges in the annotation of genetic variations. <i>BMC Genomics</i> , 2013, 14, S1.	2.8	4
61	A Minimal Model of Three-State Folding Dynamics of Helical Proteins. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4215-4226.	2.6	3
62	SARA-Coffee web server, a tool for the computation of RNA sequence and structure multiple alignments. <i>Nucleic Acids Research</i> , 2014, 42, W356-W360.	14.5	3
63	Fido-SNP: the first webserver for scoring the impact of single nucleotide variants in the dog genome. <i>Nucleic Acids Research</i> , 2019, 47, W136-W141.	14.5	3
64	Evaluating the relevance of sequence conservation in the prediction of pathogenic missense variants. <i>Human Genetics</i> , 2022, 141, 1649-1658.	3.8	3
65	Diffusion-collision of foldons elucidates the kinetic effects of point mutations and suggests control strategies of the folding process of helical proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 198-209.	2.6	2
66	Varl-SIG 2015: methods for personalized medicine - the role of variant interpretation in research and diagnostics. <i>BMC Genomics</i> , 2016, 17, 425.	2.8	2
67	Predicting gene expression level in E. coli from mRNA sequence information. , 2019, , .		1
68	Machine learning and the prediction of protein structure: the state of the art. , 2006, , 359-370.		0
69	Network-based strategies for protein characterization. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021, 127, 217-248.	2.3	0