

# Iddo Friedberg

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59  
papers

6,913  
citations

27  
h-index

76  
g-index

76  
ext. papers

8,817  
ext. citations

8.7  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
59	Biopython: freely available Python tools for computational molecular biology and bioinformatics. <i>Bioinformatics</i> , <b>2009</b> , 25, 1422-3	7.2	2308
58	Protein tyrosine phosphatases in the human genome. <i>Cell</i> , <b>2004</b> , 117, 699-711	56.2	1492
57	A large-scale evaluation of computational protein function prediction. <i>Nature Methods</i> , <b>2013</b> , 10, 221-7	21.6	587
56	A primer on metagenomics. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1000667	5	412
55	Automated protein function prediction--the genomic challenge. <i>Briefings in Bioinformatics</i> , <b>2006</b> , 7, 225-43	4.4	259
54	An expanded evaluation of protein function prediction methods shows an improvement in accuracy. <i>Genome Biology</i> , <b>2016</b> , 17, 184	18.3	218
53	A metagenomic study of diet-dependent interaction between gut microbiota and host in infants reveals differences in immune response. <i>Genome Biology</i> , <b>2012</b> , 13, r32	18.3	173
52	Whole genome comparison of a large collection of mycobacteriophages reveals a continuum of phage genetic diversity. <i>ELife</i> , <b>2015</b> , 4, e06416	8.9	171
51	Submitochondrial distribution of three key steroidogenic proteins (steroidogenic acute regulatory protein and cytochrome p450scc and 3beta-hydroxysteroid dehydrogenase isomerase enzymes) upon stimulation by intracellular calcium in adrenal glomerulosa cells. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 2000-2007	5.4	137
50	The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens. <i>Genome Biology</i> , <b>2019</b> , 20, 244	18.3	111
49	Host-microbe interactions in the neonatal intestine: role of human milk oligosaccharides. <i>Advances in Nutrition</i> , <b>2012</b> , 3, 450S-5S	10	86
48	Biases in the experimental annotations of protein function and their effect on our understanding of protein function space. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1003063	5	79
47	Protist diversity in a permanently ice-covered Antarctic lake during the polar night transition. <i>ISME Journal</i> , <b>2011</b> , 5, 1559-64	11.9	61
46	Connecting the protein structure universe by using sparse recurring fragments. <i>Structure</i> , <b>2005</b> , 13, 1213-24	5.24	53
45	Maize GO Annotation-Methods, Evaluation, and Review (maize-GAMER). <i>Plant Direct</i> , <b>2018</b> , 2, e00052	3.3	50
44	The COMBREX project: design, methodology, and initial results. <i>PLoS Biology</i> , <b>2013</b> , 11, e1001638	9.7	47
43	Persistently conserved positions in structurally similar, sequence dissimilar proteins: roles in preserving protein fold and function. <i>Protein Science</i> , <b>2002</b> , 11, 350-60	6.3	46

42	Identifying antimicrobial peptides using word embedding with deep recurrent neural networks. <i>Bioinformatics</i> , <b>2019</b> , 35, 2009-2016	7.2	43
41	Computational protein function prediction: are we making progress?. <i>Cellular and Molecular Life Sciences</i> , <b>2007</b> , 64, 2505-11	10.3	42
40	Evaluation of PSI-BLAST alignment accuracy in comparison to structural alignments. <i>Protein Science</i> , <b>2000</b> , 9, 2278-84	6.3	40
39	The interplay of fold recognition and experimental structure determination in structural genomics. <i>Current Opinion in Structural Biology</i> , <b>2004</b> , 14, 307-12	8.1	38
38	The impact of incomplete knowledge on the evaluation of protein function prediction: a structured-output learning perspective. <i>Bioinformatics</i> , <b>2014</b> , 30, i609-16	7.2	33
37	Using an alignment of fragment strings for comparing protein structures. <i>Bioinformatics</i> , <b>2007</b> , 23, e219-24	7.4	33
36	JAJA: a protein function annotation meta-server. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, W379-81	20.1	31
35	A large scale prediction of bacteriocin gene blocks suggests a wide functional spectrum for bacteriocins. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, 381	3.6	27
34	Crowdsourcing image analysis for plant phenomics to generate ground truth data for machine learning. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006337	5	27
33	MetaMiner: A Scalable Peptidogenomics Approach for Discovery of Ribosomal Peptide Natural Products with Blind Modifications from Microbial Communities. <i>Cell Systems</i> , <b>2019</b> , 9, 600-608.e4	10.6	26
32	Fragnostic: walking through protein structure space. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, W249-51	20.1	19
31	Meeting Report: BioSharing at ISMB 2010. <i>Standards in Genomic Sciences</i> , <b>2010</b> , 3, 254-8		18
30	Identification and characterization of DUSP27, a novel dual-specific protein phosphatase. <i>FEBS Letters</i> , <b>2007</b> , 581, 2527-33	3.8	17
29	Chikungunya Virus in Febrile Humans and Aedes aegypti Mosquitoes, Yucatan, Mexico. <i>Emerging Infectious Diseases</i> , <b>2016</b> , 22, 1804-7	10.2	17
28	Community-Wide Evaluation of Computational Function Prediction. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1446, 133-146	1.4	15
27	SwiftOrtho: A fast, memory-efficient, multiple genome orthology classifier. <i>GigaScience</i> , <b>2019</b> , 8,	7.6	13
26	An event-driven approach for studying gene block evolution in bacteria. <i>Bioinformatics</i> , <b>2015</b> , 31, 2075-83.	3.2	13
25	Expanding the CRISPR Toolbox with ErCas12a in Zebrafish and Human Cells. <i>CRISPR Journal</i> , <b>2019</b> , 2, 417-433	2.5	13

24	Novel antimicrobial peptide discovery using machine learning and biophysical selection of minimal bacteriocin domains. <i>Drug Development Research</i> , <b>2020</b> , 81, 43-51	5.1	12
23	IPRStats: visualization of the functional potential of an InterProScan run. <i>BMC Bioinformatics</i> , <b>2010</b> , 11 Suppl 12, S13	3.6	11
22	New Long-Term Memory Genes Revealed by Assessing Computational Function Prediction Methods. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 251-267	3.2	11
21	Functional differentiation of proteins: implications for structural genomics. <i>Structure</i> , <b>2007</b> , 15, 405-15	5.2	9
20	The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens		7
19	Biological database of images and genomes: tools for community annotations linking image and genomic information. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2013</b> , 2013, bat016	5	5
18	Unraveling a Tangled Skein: Evolutionary Analysis of the Bacterial Gibberellin Biosynthetic Operon. <i>MSphere</i> , <b>2020</b> , 5,	5	4
17	Meeting Report: "Metagenomics, Metadata and Meta-analysis" (M3) Special Interest Group at ISMB 2009. <i>Standards in Genomic Sciences</i> , <b>2009</b> , 1, 278-82		4
16	Tracing the ancestry of operons in bacteria. <i>Bioinformatics</i> , <b>2019</b> , 35, 2998-3004	7.2	3
15	MaizeDIG: Maize Database of Images and Genomes. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1050	6.2	3
14	Assessing computational predictions of the phenotypic effect of cystathionine-beta-synthase variants. <i>Human Mutation</i> , <b>2019</b> , 40, 1530-1545	4.7	3
13	Comparative analysis of error-prone replication mononucleotide repeats across baculovirus genomes. <i>Virus Research</i> , <b>2013</b> , 178, 217-25	6.4	3
12	Meeting Report: Metagenomics, Metadata and MetaAnalysis (M3) at ISMB 2010. <i>Standards in Genomic Sciences</i> , <b>2010</b> , 3, 232-4		3
11	New Drosophila long-term memory genes revealed by assessing computational function prediction methods		3
10	Crowdsourcing biocuration: The Community Assessment of Community Annotation with Ontologies (CACAO). <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009463	5	3
9	PeCoP: automatic determination of persistently conserved positions in protein families. <i>Bioinformatics</i> , <b>2002</b> , 18, 1276-7	7.2	2
8	Identifying Core Operons in Metagenomic Data		2
7	Identifying Antimicrobial Peptides using Word Embedding with Deep Recurrent Neural Networks		2

6	MetaRiPPquest: A Peptidogenomics Approach for the Discovery of Ribosomally Synthesized and Post-translationally Modified Peptides			1
5	Hierarchical Markov Random Field model captures spatial dependency in gene expression, demonstrating regulation via the 3D genome			1
4	Deploying MMEJ using MENdel in precision gene editing applications for gene therapy and functional genomics. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 67-78	20.1	0	
3	Vertical transmission of attaching and invasive <i>E. coli</i> from the dam to neonatal mice predisposes to more severe colitis following exposure to a colitic insult later in life.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0266005	3.7	0	
2	Finding orthologous gene blocks in bacteria: the computational hardness of the problem and novel methods to address it. <i>Bioinformatics</i> , <b>2020</b> , 36, i668-i674	7.2		
1	Highly Bi-Connected Subgraphs for Computational Protein Function Annotation. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 573-584	0.9		