

Fran Supek

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

10,217
citations

186209

28
h-index

149623

56
g-index

65
all docs

65
docs citations

65
times ranked

22673
citing authors

#	ARTICLE	IF	CITATIONS
1	REVIGO Summarizes and Visualizes Long Lists of Gene Ontology Terms. PLoS ONE, 2011, 6, e21800.	1.1	5,347
2	A large-scale evaluation of computational protein function prediction. Nature Methods, 2013, 10, 221-227.	9.0	789
3	Synonymous Mutations Frequently Act as Driver Mutations in Human Cancers. Cell, 2014, 156, 1324-1335.	13.5	482
4	The rules and impact of nonsense-mediated mRNA decay in human cancers. Nature Genetics, 2016, 48, 1112-1118.	9.4	340
5	Differential DNA mismatch repair underlies mutation rate variation across the human genome. Nature, 2015, 521, 81-84.	13.7	310
6	An expanded evaluation of protein function prediction methods shows an improvement in accuracy. Genome Biology, 2016, 17, 184.	3.8	308
7	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. Nature Genetics, 2020, 52, 306-319.	9.4	275
8	The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens. Genome Biology, 2019, 20, 244.	3.8	261
9	Clustered Mutation Signatures Reveal that Error-Prone DNA Repair Targets Mutations to Active Genes. Cell, 2017, 170, 534-547.e23.	13.5	173
10	The impact of nonsense-mediated mRNA decay on genetic disease, gene editing and cancer immunotherapy. Nature Genetics, 2019, 51, 1645-1651.	9.4	171
11	MUFFINN: cancer gene discovery via network analysis of somatic mutation data. Genome Biology, 2016, 17, 129.	3.8	126
12	To NMD or Not To NMD: Nonsense-Mediated mRNA Decay in Cancer and Other Genetic Diseases. Trends in Genetics, 2021, 37, 657-668.	2.9	124
13	Comparison of codon usage measures and their applicability in prediction of microbial gene expressivity. BMC Bioinformatics, 2005, 6, 182.	1.2	109
14	INCA: synonymous codon usage analysis and clustering by means of self-organizing map. Bioinformatics, 2004, 20, 2329-2330.	1.8	103
15	Translational Selection Is Ubiquitous in Prokaryotes. PLoS Genetics, 2010, 6, e1001004.	1.5	76
16	DNA mismatch repair promotes APOBEC3-mediated diffuse hypermutation in human cancers. Nature Genetics, 2020, 52, 958-968.	9.4	76
17	The landscape of microbial phenotypic traits and associated genes. Nucleic Acids Research, 2016, 44, gkw964.	6.5	71
18	The Code of Silence: Widespread Associations Between Synonymous Codon Biases and Gene Function. Journal of Molecular Evolution, 2016, 82, 65-73.	0.8	60

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19	Antitumor Potential of Crown Ethers: Structure-Activity Relationships, Cell Cycle Disturbances, and Cell Death Studies of a Series of Ionophores. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 1007-1018.	2.9	59
20	Scales and mechanisms of somatic mutation rate variation across the human genome. <i>DNA Repair</i> , 2019, 81, 102647.	1.3	59
21	A synthesis of bacterial and archaeal phenotypic trait data. <i>Scientific Data</i> , 2020, 7, 170.	2.4	59
22	On Relevance of Codon Usage to Expression of Synthetic and Natural Genes in <i>Escherichia coli</i> . <i>Genetics</i> , 2010, 185, 1129-1134.	1.2	57
23	Inferring gene function from evolutionary change in signatures of translation efficiency. <i>Genome Biology</i> , 2014, 15, R44.	13.9	53
24	Matching cell lines with cancer type and subtype of origin via mutational, epigenomic, and transcriptomic patterns. <i>Science Advances</i> , 2020, 6, .	4.7	53
25	Systematic discovery of germline cancer predisposition genes through the identification of somatic second hits. <i>Nature Communications</i> , 2018, 9, 2601.	5.8	47
26	Whole genome DNA sequencing provides an atlas of somatic mutagenesis in healthy human cells and identifies a tumor-prone cell type. <i>Genome Biology</i> , 2019, 20, 285.	3.8	46
27	Accurate Models for P-gp Drug Recognition Induced from a Cancer Cell Line Cytotoxicity Screen. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5691-5708.	2.9	45
28	Passenger mutations accurately classify human tumors. <i>PLoS Computational Biology</i> , 2019, 15, e1006953.	1.5	39
29	Loss of G9a preserves mutation patterns but increases chromatin accessibility, genomic instability and aggressiveness in skin tumours. <i>Nature Cell Biology</i> , 2018, 20, 1400-1409.	4.6	35
30	Hydroxymethylated Cytosines Are Associated with Elevated C to G Transversion Rates. <i>PLoS Genetics</i> , 2014, 10, e1004585.	1.5	31
31	Global Shifts in Genome and Proteome Composition Are Very Tightly Coupled. <i>Genome Biology and Evolution</i> , 2015, 7, 1519-1532.	1.1	31
32	Phyletic Profiling with Cliques of Orthologs Is Enhanced by Signatures of Paralogy Relationships. <i>PLoS Computational Biology</i> , 2013, 9, e1002852.	1.5	29
33	Mutational signatures are markers of drug sensitivity of cancer cells. <i>Nature Communications</i> , 2022, 13, .	5.8	29
34	Could LogP be a principal determinant of biological activity in 18-crown-6 ethers? Synthesis of biologically active adamantane-substituted diaza-crowns. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 3444-3454.	2.6	26
35	Proteome sequence features carry signatures of the environmental niche of prokaryotes. <i>BMC Evolutionary Biology</i> , 2011, 11, 26.	3.2	25
36	Loss of the abasic site sensor HMCES is synthetic lethal with the activity of the APOBEC3A cytosine deaminase in cancer cells. <i>PLoS Biology</i> , 2021, 19, e3001176.	2.6	25

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37	Atypical cytostatic mechanism of N-1-sulfonylcytosine derivatives determined by in vitro screening and computational analysis. <i>Investigational New Drugs</i> , 2008, 26, 97-110.	1.2	23
38	Enhanced analytical power of SDS-PAGE using machine learning algorithms. <i>Proteomics</i> , 2008, 8, 28-31.	1.3	22
39	Nucleoid-Associated Proteins Affect Mutation Dynamics in <i>E. coli</i> in a Growth Phase-Specific Manner. <i>PLoS Computational Biology</i> , 2012, 8, e1002846.	1.5	21
40	Signatures of Conformational Stability and Oxidation Resistance in Proteomes of Pathogenic Bacteria. <i>Cell Reports</i> , 2014, 7, 1393-1400.	2.9	19
41	Patterns of diverse gene functions in genomic neighborhoods predict gene function and phenotype. <i>Scientific Reports</i> , 2019, 9, 19537.	1.6	19
42	Computational structure-activity study directs synthesis of novel antitumor enkephalin analogs. <i>Amino Acids</i> , 2010, 38, 1185-1191.	1.2	17
43	Integrated Analysis of Germline and Tumor DNA Identifies New Candidate Genes Involved in Familial Colorectal Cancer. <i>Cancers</i> , 2019, 11, 362.	1.7	16
44	Elevated Rate of Genome Rearrangements in Radiation-Resistant Bacteria. <i>Genetics</i> , 2017, 205, 1677-1689.	1.2	14
45	The impact of rare germline variants on human somatic mutation processes. <i>Nature Communications</i> , 2022, 13, .	5.8	13
46	Extensive complementarity between gene function prediction methods. <i>Bioinformatics</i> , 2016, 32, 3645-3653.	1.8	12
47	Visualizing GO Annotations. <i>Methods in Molecular Biology</i> , 2017, 1446, 207-220.	0.4	12
48	Machine learning prioritizes synthesis of primaquine ureidoamides with high antimalarial activity and attenuated cytotoxicity. <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 651-667.	2.6	11
49	Spectrum of DNA mismatch repair failures viewed through the lens of cancer genomics and implications for therapy. <i>Clinical Science</i> , 2022, 136, 383-404.	1.8	8
50	Higher order genetic interactions switch cancer genes from two-hit to one-hit drivers. <i>Nature Communications</i> , 2021, 12, 7051.	5.8	5
51	A framework for mutational signature analysis based on DNA shape parameters. <i>PLoS ONE</i> , 2022, 17, e0262495.	1.1	4
52	Putative mechanisms of antitumor activity of cyano-substituted heteroaryles in HeLa cells. <i>Investigational New Drugs</i> , 2012, 30, 450-467.	1.2	3
53	The evolutionary signal in metagenome phyletic profiles predicts many gene functions. <i>Microbiome</i> , 2018, 6, 129.	4.9	3
54	Phenotype Inference from Text and Genomic Data. <i>Lecture Notes in Computer Science</i> , 2017, , 373-377.	1.0	2

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55	Phenotype Prediction with Semi-supervised Classification Trees. Lecture Notes in Computer Science, 2018, , 138-150.	1.0	1