

Gabriel Moreno-Hagelsieb

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

8,019
citations

136950

32
h-index

88630

70
g-index

76
all docs

76
docs citations

76
times ranked

12627
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant growth-promoting bacterial endophytes. <i>Microbiological Research</i> , 2016, 183, 92-99.	5.3	1,194
2	The Transporter Classification Database (TCDB): recent advances. <i>Nucleic Acids Research</i> , 2016, 44, D372-D379.	14.5	711
3	Generation of Multimillion-Sequence 16S rRNA Gene Libraries from Complex Microbial Communities by Assembling Paired-End Illumina Reads. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3846-3852.	3.1	697
4	Choosing BLAST options for better detection of orthologs as reciprocal best hits. <i>Bioinformatics</i> , 2008, 24, 319-324.	4.1	482
5	Association of host genome with intestinal microbial composition in a large healthy cohort. <i>Nature Genetics</i> , 2016, 48, 1413-1417.	21.4	388
6	Transplantation of fecal microbiota from patients with irritable bowel syndrome alters gut function and behavior in recipient mice. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	366
7	The partitioned <i>Rhizobium etli</i> genome: Genetic and metabolic redundancy in seven interacting replicons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3834-3839.	7.1	365
8	Bacterial biogeography of the human digestive tract. <i>Scientific Reports</i> , 2011, 1, 170.	3.3	347
9	Global Functional Atlas of <i>Escherichia coli</i> Encompassing Previously Uncharacterized Proteins. <i>PLoS Biology</i> , 2009, 7, e1000096.	5.6	331
10	Operons in <i>Escherichia coli</i> : Genomic analyses and predictions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 6652-6657.	7.1	314
11	Evaluating Bias of Illumina-Based Bacterial 16S rRNA Gene Profiles. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5717-5722.	3.1	250
12	eSGA: <i>E. coli</i> synthetic genetic array analysis. <i>Nature Methods</i> , 2008, 5, 789-795.	19.0	231
13	The Transporter Classification Database (TCDB): 2021 update. <i>Nucleic Acids Research</i> , 2021, 49, D461-D467.	14.5	192
14	A powerful non-homology method for the prediction of operons in prokaryotes. <i>Bioinformatics</i> , 2002, 18, S329-S336.	4.1	173
15	The mosaic structure of the symbiotic plasmid of <i>Rhizobium etli</i> CFN42 and its relation to other symbiotic genome compartments. <i>Genome Biology</i> , 2003, 4, R36.	9.6	167
16	Understanding the evolutionary relationships and major traits of <i>Bacillus</i> through comparative genomics. <i>BMC Genomics</i> , 2010, 11, 332.	2.8	143
17	Quickly Finding Orthologs as Reciprocal Best Hits with BLAT, LAST, and UBLAST: How Much Do We Miss?. <i>PLoS ONE</i> , 2014, 9, e101850.	2.5	133
18	A Comparative Genomics Approach to Prediction of New Members of Regulons. <i>Genome Research</i> , 2001, 11, 566-584.	5.5	113

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19	Whole-Genome Expression Profiling Defines the HrpL Regulon of <i>Pseudomonas syringae</i> pv. tomato DC3000, Allows de novo Reconstruction of the Hrp cis Element, and Identifies Novel Coregulated Genes. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 1167-1179.	2.6	105
20	Quantitative Genome-Wide Genetic Interaction Screens Reveal Global Epistatic Relationships of Protein Complexes in <i>Escherichia coli</i> . <i>PLoS Genetics</i> , 2014, 10, e1004120.	3.5	96
21	Genetic Interaction Maps in <i>Escherichia coli</i> Reveal Functional Crosstalk among Cell Envelope Biogenesis Pathways. <i>PLoS Genetics</i> , 2011, 7, e1002377.	3.5	95
22	Successful Lateral Transfer Requires Codon Usage Compatibility Between Foreign Genes and Recipient Genomes. <i>Molecular Biology and Evolution</i> , 2004, 21, 1884-1894.	8.9	75
23	Probing Teichoic Acid Genetics with Bioactive Molecules Reveals New Interactions among Diverse Processes in Bacterial Cell Wall Biogenesis. <i>Chemistry and Biology</i> , 2009, 16, 548-556.	6.0	68
24	Characterization of the NifA-RpoN Regulon in <i>Rhizobium etli</i> in Free Life and in Symbiosis with <i>Phaseolus vulgaris</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 4510-4520.	3.1	62
25	An assessment of genome annotation coverage across the bacterial tree of life. <i>Microbial Genomics</i> , 2020, 6, .	2.0	55
26	Conservation of DNA curvature signals in regulatory regions of prokaryotic genes. <i>Nucleic Acids Research</i> , 2003, 31, 6770-6777.	14.5	54
27	Bioinformatic characterization of the Anoctamin Superfamily of Ca ²⁺ -activated ion channels and lipid scramblases. <i>PLoS ONE</i> , 2018, 13, e0192851.	2.5	52
28	Determinants of Intestinal Permeability in Healthy First-Degree Relatives of Individuals with Crohn's Disease. <i>Inflammatory Bowel Diseases</i> , 2015, 21, 879-887.	1.9	49
29	Transcription unit conservation in the three domains of life: a perspective from <i>Escherichia coli</i> . <i>Trends in Genetics</i> , 2001, 17, 175-177.	6.7	46
30	Nebulon: a system for the inference of functional relationships of gene products from the rearrangement of predicted operons. <i>Nucleic Acids Research</i> , 2005, 33, 2521-2530.	14.5	44
31	Network-based function prediction and interactomics: The case for metabolic enzymes. <i>Metabolic Engineering</i> , 2011, 13, 1-10.	7.0	43
32	Progress in quickly finding orthologs as reciprocal best hits: comparing blast, last, diamond and MMseqs2. <i>BMC Genomics</i> , 2020, 21, 741.	2.8	43
33	Phylogenomic clustering for selecting non-redundant genomes for comparative genomics. <i>Bioinformatics</i> , 2013, 29, 947-949.	4.1	38
34	Conservation of adjacency as evidence of paralogous operons. <i>Nucleic Acids Research</i> , 2004, 32, 5392-5397.	14.5	36
35	RegulonDB 11.0: Comprehensive high-throughput datasets on transcriptional regulation in <i>Escherichia coli</i> K-12. <i>Microbial Genomics</i> , 2022, 8, .	2.0	32
36	Remote homology and the functions of metagenomic dark matter. <i>Frontiers in Genetics</i> , 2015, 6, 234.	2.3	31

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37	Phylogenetic Distribution and Evolutionary History of Bacterial DEAD-Box Proteins. <i>Journal of Molecular Evolution</i> , 2011, 72, 413-431.	1.8	30
38	Operons and the effect of genome redundancy in deciphering functional relationships using phylogenetic profiles. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 344-352.	2.6	27
39	Aldehyde dehydrogenase diversity in bacteria of the <i>Pseudomonas</i> genus. <i>Chemico-Biological Interactions</i> , 2019, 304, 83-87.	4.0	26
40	The Membrane Attack Complex/Perforin Superfamily. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2017, 27, 252-267.	1.0	23
41	Environmentally-driven gene content convergence and the <i>Bacillus</i> phylogeny. <i>BMC Evolutionary Biology</i> , 2018, 18, 148.	3.2	23
42	Draft Genome Sequence of the Biocontrol and Plant Growth-Promoting Rhizobacterium <i>Pseudomonas fluorescens</i> strain UM270. <i>Standards in Genomic Sciences</i> , 2016, 11, 5.	1.5	21
43	Open resource metagenomics: a model for sharing metagenomic libraries. <i>Standards in Genomic Sciences</i> , 2011, 5, 203-210.	1.5	20
44	The power of operon rearrangements for predicting functional associations. <i>Computational and Structural Biotechnology Journal</i> , 2015, 13, 402-406.	4.1	18
45	The volatile organic compound dimethylhexadecylamine affects bacterial growth and swarming motility of bacteria. <i>Folia Microbiologica</i> , 2020, 65, 523-532.	2.3	18
46	The functional landscape bound to the transcription factors of <i>Escherichia coli</i> K-12. <i>Computational Biology and Chemistry</i> , 2015, 58, 93-103.	2.3	16
47	The predominance of nucleotidyl activation in bacterial phosphonate biosynthesis. <i>Nature Communications</i> , 2019, 10, 3698.	12.8	16
48	The pseudogenes of <i>Mycobacterium leprae</i> reveal the functional relevance of gene order within operons. <i>Nucleic Acids Research</i> , 2011, 39, 1732-1738.	14.5	15
49	Metagenomic Annotation Networks: Construction and Applications. <i>PLoS ONE</i> , 2012, 7, e41283.	2.5	15
50	Operon conservation from the point of view of <i>Escherichia coli</i> , and inference of functional interdependence of gene products from genome context. <i>In Silico Biology</i> , 2002, 2, 87-95.	0.9	15
51	The distinctive signatures of promoter regions and operon junctions across prokaryotes. <i>Nucleic Acids Research</i> , 2006, 34, 3980-3987.	14.5	14
52	The evolutionary dynamics of functional modules and the extraordinary plasticity of regulons: the <i>Escherichia coli</i> perspective. <i>Nucleic Acids Research</i> , 2012, 40, 7104-7112.	14.5	12
53	Genome Comparison of <i>Pseudomonas fluorescens</i> UM270 with Related Fluorescent Strains Unveils Genes Involved in Rhizosphere Competence and Colonization. <i>Journal of Genomics</i> , 2017, 5, 91-98.	0.9	11
54	Expansion of the Transporter-Opson-G protein-coupled receptor superfamily with five new protein families. <i>PLoS ONE</i> , 2020, 15, e0231085.	2.5	11

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55	Operons Across Prokaryotes: Genomic Analyses and Predictions 300+ Genomes Later. <i>Current Genomics</i> , 2006, 7, 163-170.	1.6	8
56	Escherichia coli TEM1 β -lactamase in CTAB reverse micelles: exchange/diffusion-limited catalysis. <i>FEBS Letters</i> , 1999, 459, 111-114.	2.8	6
57	VIR.II: a new interface with the antibody sequences in the Kabat database. <i>BioSystems</i> , 2001, 61, 125-131.	2.0	6
58	Beyond the bounds of orthology: functional inference from metagenomic context. <i>Molecular BioSystems</i> , 2010, 6, 1247.	2.9	6
59	Estimating overannotation across prokaryotic genomes using BLAST+, UBLAST, LAST and BLAT. <i>BMC Research Notes</i> , 2014, 7, 651.	1.4	6
60	Microbial computational genomics of gene regulation. <i>Pure and Applied Chemistry</i> , 2002, 74, 899-905.	1.9	3
61	Analysis of 58 Families of Holins Using a Novel Program, PhyST. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2016, 26, 381-388.	1.0	3
62	Modelling Dynamics of Genetic Networks as a Multiscale Process. <i>Lecture Notes in Computer Science</i> , 2005, , 134-138.	1.3	2
63	Inferring Functional Relationships from Conservation of Gene Order. <i>Methods in Molecular Biology</i> , 2008, 453, 181-199.	0.9	2
64	Meeting Report: 1st International Functional Metagenomics Workshop May 7-8, 2012, St. Jacobs, Ontario, Canada.. <i>Standards in Genomic Sciences</i> , 2013, 8, 106-111.	1.5	2
65	The loose evolutionary relationships between transcription factors and other gene products across prokaryotes. <i>BMC Research Notes</i> , 2014, 7, 928.	1.4	2
66	The Functional Differences between the GroEL Chaperonin of Escherichia coli and the HtpB Chaperonin of Legionella pneumophila Can Be Mapped to Specific Amino Acid Residues. <i>Biomolecules</i> , 2022, 12, 59.	4.0	2
67	A new method of solution for the occupancy problem and its application to operon size prediction. <i>Journal of Theoretical Biology</i> , 2004, 227, 315-322.	1.7	1
68	PathFams: statistical detection of pathogen-associated protein domains. <i>BMC Genomics</i> , 2021, 22, 663.	2.8	1
69	Metabolic role of aldehyde dehydrogenases in Pseudomonas putida KT2440. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1
70	Inferring Functional Relationships from Conservation of Gene Order. <i>Methods in Molecular Biology</i> , 2017, 1526, 41-63.	0.9	0
71	Taxonomy and diversity of aldehyde dehydrogenases in bacteria of the Pseudomonas genus. <i>FASEB Journal</i> , 2019, 33, lb246.	0.5	0