

Mihai Pop

List of Publications by Year in descending order

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Version: 2024-02-01

143
papers

57,664
citations

29994

54
h-index

15683

125
g-index

155
all docs

155
docs citations

155
times ranked

80317
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ultrafast and memory-efficient alignment of short DNA sequences to the human genome. <i>Genome Biology</i> , 2009, 10, R25. | 13.9 | 19,212 |
| 2 | Structure, function and diversity of the healthy human microbiome. <i>Nature</i> , 2012, 486, 207-214. | 13.7 | 9,614 |
| 3 | Metagenomic Analysis of the Human Distal Gut Microbiome. <i>Science</i> , 2006, 312, 1355-1359. | 6.0 | 3,964 |
| 4 | A framework for human microbiome research. <i>Nature</i> , 2012, 486, 215-221. | 13.7 | 2,249 |
| 5 | Differential abundance analysis for microbial marker-gene surveys. <i>Nature Methods</i> , 2013, 10, 1200-1202. | 9.0 | 1,921 |
| 6 | Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007, 450, 203-218. | 13.7 | 1,886 |
| 7 | Statistical Methods for Detecting Differentially Abundant Features in Clinical Metagenomic Samples. <i>PLoS Computational Biology</i> , 2009, 5, e1000352. | 1.5 | 1,495 |
| 8 | The Genome Sequence of <i>Trypanosoma cruzi</i> , Etiologic Agent of Chagas Disease. <i>Science</i> , 2005, 309, 409-415. | 6.0 | 1,273 |
| 9 | Complete genome sequence and comparative analysis of the metabolically versatile <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , 2002, 4, 799-808. | 1.8 | 1,218 |
| 10 | ARDB--Antibiotic Resistance Genes Database. <i>Nucleic Acids Research</i> , 2009, 37, D443-D447. | 6.5 | 1,089 |
| 11 | The genome of the protist parasite <i>Entamoeba histolytica</i> . <i>Nature</i> , 2005, 433, 865-868. | 13.7 | 783 |
| 12 | The genome sequence of <i>Bacillus anthracis</i> Ames and comparison to closely related bacteria. <i>Nature</i> , 2003, 423, 81-86. | 13.7 | 760 |
| 13 | Genome sequence and comparative analysis of the model rodent malaria parasite <i>Plasmodium yoelii yoelii</i> . <i>Nature</i> , 2002, 419, 512-519. | 13.7 | 666 |
| 14 | Critical Assessment of Metagenome Interpretation--a benchmark of metagenomics software. <i>Nature Methods</i> , 2017, 14, 1063-1071. | 9.0 | 635 |
| 15 | GAGE: A critical evaluation of genome assemblies and assembly algorithms. <i>Genome Research</i> , 2012, 22, 557-567. | 2.4 | 597 |
| 16 | Draft Genome of the Filarial Nematode Parasite <i>Brugia malayi</i> . <i>Science</i> , 2007, 317, 1756-1760. | 6.0 | 571 |
| 17 | Integrating Hi-C links with assembly graphs for chromosome-scale assembly. <i>PLoS Computational Biology</i> , 2019, 15, e1007273. | 1.5 | 509 |
| 18 | The Dog Genome: Survey Sequencing and Comparative Analysis. <i>Science</i> , 2003, 301, 1898-1903. | 6.0 | 482 |

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|----|--|------|-----------|
| 19 | Bioinformatics challenges of new sequencing technology. Trends in Genetics, 2008, 24, 142-149. | 2.9 | 438 |
| 20 | Searching for SNPs with cloud computing. Genome Biology, 2009, 10, R134. | 13.9 | 437 |
| 21 | Comparative Genome Sequencing for Discovery of Novel Polymorphisms in Bacillus anthracis. Science, 2002, 296, 2028-2033. | 6.0 | 413 |
| 22 | Sequence assembly demystified. Nature Reviews Genetics, 2013, 14, 157-167. | 7.7 | 396 |
| 23 | Minimus: a fast, lightweight genome assembler. BMC Bioinformatics, 2007, 8, 64. | 1.2 | 354 |
| 24 | Deep Sequencing of the Oral Microbiome Reveals Signatures of Periodontal Disease. PLoS ONE, 2012, 7, e37919. | 1.1 | 329 |
| 25 | Genome assembly reborn: recent computational challenges. Briefings in Bioinformatics, 2009, 10, 354-366. | 3.2 | 291 |
| 26 | Exploiting sparseness in de novo genome assembly. BMC Bioinformatics, 2012, 13, S1. | 1.2 | 279 |
| 27 | Genome assembly forensics: finding the elusive mis-assembly. Genome Biology, 2008, 9, R55. | 13.9 | 248 |
| 28 | Diarrhea in young children from low-income countries leads to large-scale alterations in intestinal microbiota composition. Genome Biology, 2014, 15, R76. | 13.9 | 219 |
| 29 | A perspective on 16S rRNA operational taxonomic unit clustering using sequence similarity. Npj Biofilms and Microbiomes, 2016, 2, 16004. | 2.9 | 208 |
| 30 | Next Generation Sequence Assembly with AMOS. Current Protocols in Bioinformatics, 2011, 33, Unit 11.8. | 25.8 | 200 |
| 31 | Scaffolding and validation of bacterial genome assemblies using optical restriction maps. Bioinformatics, 2008, 24, 1229-1235. | 1.8 | 195 |
| 32 | Scaffolding of long read assemblies using long range contact information. BMC Genomics, 2017, 18, 527. | 1.2 | 194 |
| 33 | Comparative genome assembly. Briefings in Bioinformatics, 2004, 5, 237-248. | 3.2 | 193 |
| 34 | MetAMOS: a modular and open source metagenomic assembly and analysis pipeline. Genome Biology, 2013, 14, R2. | 13.9 | 174 |
| 35 | Hierarchical Scaffolding With Bambus. Genome Research, 2003, 14, 149-159. | 2.4 | 172 |
| 36 | Accurate and fast estimation of taxonomic profiles from metagenomic shotgun sequences. BMC Genomics, 2011, 12, S4. | 1.2 | 167 |

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|----|---|------|-----------|
| 37 | DNAFLUST: accurate and efficient clustering of phylogenetic marker genes. BMC Bioinformatics, 2011, 12, 271. | 1.2 | 167 |
| 38 | <i>Bacillus anthracis</i> comparative genome analysis in support of the Amerithrax investigation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5027-5032. | 3.3 | 152 |
| 39 | Gene prediction with Glimmer for metagenomic sequences augmented by classification and clustering. Nucleic Acids Research, 2012, 40, e9-e9. | 6.5 | 150 |
| 40 | Serendipitous discovery of Wolbachia genomes in multiple Drosophila species. Genome Biology, 2005, 6, R23. | 13.9 | 126 |
| 41 | Bambus 2: scaffolding metagenomes. Bioinformatics, 2011, 27, 2964-2971. | 1.8 | 124 |
| 42 | Assembly complexity of prokaryotic genomes using short reads. BMC Bioinformatics, 2010, 11, 21. | 1.2 | 120 |
| 43 | An optimized system for expression and purification of secreted bacterial proteins. Protein Expression and Purification, 2006, 46, 23-32. | 0.6 | 113 |
| 44 | Metagenomic assembly through the lens of validation: recent advances in assessing and improving the quality of genomes assembled from metagenomes. Briefings in Bioinformatics, 2019, 20, 1140-1150. | 3.2 | 113 |
| 45 | Genomic characterization of the Yersinia genus. Genome Biology, 2010, 11, R1. | 13.9 | 103 |
| 46 | Parametric Complexity of Sequence Assembly: Theory and Applications to Next Generation Sequencing. Journal of Computational Biology, 2009, 16, 897-908. | 0.8 | 96 |
| 47 | Quantitative PCR for Detection of Shigella Improves Ascertainment of Shigella Burden in Children with Moderate-to-Severe Diarrhea in Low-Income Countries. Journal of Clinical Microbiology, 2013, 51, 1740-1746. | 1.8 | 96 |
| 48 | TIPP: taxonomic identification and phylogenetic profiling. Bioinformatics, 2014, 30, 3548-3555. | 1.8 | 93 |
| 49 | The Theory and Practice of Genome Sequence Assembly. Annual Review of Genomics and Human Genetics, 2015, 16, 153-172. | 2.5 | 87 |
| 50 | Characterization of Ehp, a Secreted Complement Inhibitory Protein from Staphylococcus aureus. Journal of Biological Chemistry, 2007, 282, 30051-30061. | 1.6 | 84 |
| 51 | Metastats: an improved statistical method for analysis of metagenomic data. Genome Biology, 2011, 12, . | 3.8 | 75 |
| 52 | Bioinformatics for the Human Microbiome Project. PLoS Computational Biology, 2012, 8, e1002779. | 1.5 | 73 |
| 53 | Metagenomic Assembly: Overview, Challenges and Applications. Yale Journal of Biology and Medicine, 2016, 89, 353-362. | 0.2 | 71 |
| 54 | Assignment of virus and antimicrobial resistance genes to microbial hosts in a complex microbial community by combined long-read assembly and proximity ligation. Genome Biology, 2019, 20, 153. | 3.8 | 66 |

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|----|---|-----|-----------|
| 55 | Misunderstood parameter of NCBI BLAST impacts the correctness of bioinformatics workflows. <i>Bioinformatics</i> , 2019, 35, 1613-1614. | 1.8 | 65 |
| 56 | Construction of a dairy microbial genome catalog opens new perspectives for the metagenomic analysis of dairy fermented products. <i>BMC Genomics</i> , 2014, 15, 1101. | 1.2 | 64 |
| 57 | Alignment and clustering of phylogenetic markers - implications for microbial diversity studies. <i>BMC Bioinformatics</i> , 2010, 11, 152. | 1.2 | 63 |
| 58 | Genome sequence assembly: algorithms and issues. <i>Computer</i> , 2002, 35, 47-54. | 1.2 | 60 |
| 59 | Automated ensemble assembly and validation of microbial genomes. <i>BMC Bioinformatics</i> , 2014, 15, 126. | 1.2 | 60 |
| 60 | Modern technologies and algorithms for scaffolding assembled genomes. <i>PLoS Computational Biology</i> , 2019, 15, e1006994. | 1.5 | 56 |
| 61 | Individual-specific changes in the human gut microbiota after challenge with enterotoxigenic <i>Escherichia coli</i> and subsequent ciprofloxacin treatment. <i>BMC Genomics</i> , 2016, 17, 440. | 1.2 | 55 |
| 62 | Hawkeye and AMOS: visualizing and assessing the quality of genome assemblies. <i>Briefings in Bioinformatics</i> , 2013, 14, 213-224. | 3.2 | 54 |
| 63 | Assessing the benefits of using mate-pairs to resolve repeats in de novo short-read prokaryotic assemblies. <i>BMC Bioinformatics</i> , 2011, 12, 95. | 1.2 | 53 |
| 64 | Sequencing and Genome Assembly Using Next-Generation Technologies. <i>Methods in Molecular Biology</i> , 2010, 673, 1-17. | 0.4 | 47 |
| 65 | Finishing genomes with limited resources: lessons from an ensemble of microbial genomes. <i>BMC Genomics</i> , 2010, 11, 242. | 1.2 | 46 |
| 66 | MetaPhyler: Taxonomic profiling for metagenomic sequences. , 2010, , . | | 46 |
| 67 | Temporal Variations in Cigarette Tobacco Bacterial Community Composition and Tobacco-Specific Nitrosamine Content Are Influenced by Brand and Storage Conditions. <i>Frontiers in Microbiology</i> , 2017, 08, 358. | 1.5 | 45 |
| 68 | MetaPath: identifying differentially abundant metabolic pathways in metagenomic datasets. <i>BMC Proceedings</i> , 2011, 5, S9. | 1.8 | 44 |
| 69 | De novo likelihood-based measures for comparing genome assemblies. <i>BMC Research Notes</i> , 2013, 6, 334. | 0.6 | 43 |
| 70 | Longitudinal analysis of the lung microbiota of cynomolgous macaques during long-term SHIV infection. <i>Microbiome</i> , 2016, 4, 38. | 4.9 | 43 |
| 71 | Conventional wastewater treatment and reuse site practices modify bacterial community structure but do not eliminate some opportunistic pathogens in reclaimed water. <i>Science of the Total Environment</i> , 2018, 639, 1126-1137. | 3.9 | 43 |
| 72 | Identification of Coli Surface Antigen 23, a Novel Adhesin of Enterotoxigenic <i>Escherichia coli</i> . <i>Infection and Immunity</i> , 2012, 80, 2791-2801. | 1.0 | 42 |

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|----|---|-----|-----------|
| 73 | AGORA: Assembly Guided by Optical Restriction Alignment. BMC Bioinformatics, 2012, 13, 189. | 1.2 | 42 |
| 74 | The Capacity to Produce Hydrogen Sulfide (H ₂ S) via Cysteine Degradation Is Ubiquitous in the Human Gut Microbiome. Frontiers in Microbiology, 2021, 12, 705583. | 1.5 | 37 |
| 75 | Use and mis-use of supplementary material in science publications. BMC Bioinformatics, 2015, 16, 237. | 1.2 | 36 |
| 76 | Computational methods for optical mapping. GigaScience, 2014, 3, 33. | 3.3 | 33 |
| 77 | Mentholation affects the cigarette microbiota by selecting for bacteria resistant to harsh environmental conditions and selecting against potential bacterial pathogens. Microbiome, 2017, 5, 22. | 4.9 | 33 |
| 78 | Pharmaceuticals, herbicides, and disinfectants in agricultural water sources. Environmental Research, 2019, 174, 1-8. | 3.7 | 33 |
| 79 | Figaro: a novel statistical method for vector sequence removal. Bioinformatics, 2008, 24, 462-467. | 1.8 | 31 |
| 80 | Microbiota That Affect Risk for Shigellosis in Children in Low-Income Countries. Emerging Infectious Diseases, 2015, 21, 242-250. | 2.0 | 30 |
| 81 | Finding Biologically Accurate Clusterings in Hierarchical Tree Decompositions Using the Variation of Information. Journal of Computational Biology, 2010, 17, 503-516. | 0.8 | 29 |
| 82 | Exploring variation-aware contig graphs for (comparative) metagenomics using MaryGold. Bioinformatics, 2013, 29, 2826-2834. | 1.8 | 29 |
| 83 | Complete Genome Sequence of <i>Aggregatibacter</i> (<i>Haemophilus</i>) <i>aphrophilus</i> NJ8700. Journal of Bacteriology, 2009, 191, 4693-4694. | 1.0 | 28 |
| 84 | Benchmarking of computational error-correction methods for next-generation sequencing data. Genome Biology, 2020, 21, 71. | 3.8 | 26 |
| 85 | Survey of Culture, GoldenGate Assay, Universal Biosensor Assay, and 16S rRNA Gene Sequencing as Alternative Methods of Bacterial Pathogen Detection. Journal of Clinical Microbiology, 2013, 51, 3263-3269. | 1.8 | 25 |
| 86 | Genome-Wide Analysis of Repetitive Elements in Papaya. Tropical Plant Biology, 2008, 1, 191-201. | 1.0 | 24 |
| 87 | Comparative metagenomic analysis of microbial taxonomic and functional variations in untreated surface and reclaimed waters used in irrigation applications. Water Research, 2020, 169, 115250. | 5.3 | 21 |
| 88 | Efficient perspective-accurate silhouette computation and applications. , 2001, , . | | 20 |
| 89 | Shotgun Sequence Assembly. Advances in Computers, 2004, 60, 193-248. | 1.2 | 20 |
| 90 | Maligner: a fast ordered restriction map aligner. Bioinformatics, 2016, 32, 1016-1022. | 1.8 | 19 |

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|-----|---|------|-----------|
| 91 | Incidence of fecal indicator and pathogenic bacteria in reclaimed and return flow waters in Arizona, USA. <i>Environmental Research</i> , 2019, 170, 122-127. | 3.7 | 19 |
| 92 | Genomic Drivers of Multidrug-Resistant <i>Shigella</i> Affecting Vulnerable Patient Populations in the United States and Abroad. <i>MBio</i> , 2021, 12, . | 1.8 | 19 |
| 93 | Metastats: an improved statistical method for analysis of metagenomic data. <i>Genome Biology</i> , 2011, 12, . | 13.9 | 18 |
| 94 | We are what we eat: how the diet of infants affects their gut microbiome. <i>Genome Biology</i> , 2012, 13, 152. | 13.9 | 18 |
| 95 | TIPP2: metagenomic taxonomic profiling using phylogenetic markers. <i>Bioinformatics</i> , 2021, 37, 1839-1845. | 1.8 | 18 |
| 96 | Genome Sequencing of Four Strains of <i>Rickettsia prowazekii</i> , the Causative Agent of Epidemic Typhus, Including One Flying Squirrel Isolate. <i>Genome Announcements</i> , 2013, 1, . | 0.8 | 17 |
| 97 | Diversity in a Polymicrobial Community Revealed by Analysis of Viromes, Endolysins and CRISPR Spacers. <i>PLoS ONE</i> , 2016, 11, e0160574. | 1.1 | 17 |
| 98 | Seasonal dynamics in taxonomy and function within bacterial and viral metagenomic assemblages recovered from a freshwater agricultural pond. <i>Environmental Microbiomes</i> , 2020, 15, 18. | 2.2 | 16 |
| 99 | Chaperone-Usher Pili Loci of Colonization Factor-Negative Human Enterotoxigenic <i>Escherichia coli</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2016, 6, 200. | 1.8 | 15 |
| 100 | A critical assessment of gene catalogs for metagenomic analysis. <i>Bioinformatics</i> , 2021, 37, 2848-2857. | 1.8 | 15 |
| 101 | Reply to: "A fair comparison". <i>Nature Methods</i> , 2014, 11, 359-360. | 9.0 | 14 |
| 102 | Outlier detection in BLAST hits. <i>Algorithms for Molecular Biology</i> , 2018, 13, 7. | 0.3 | 14 |
| 103 | MetaCarvel: linking assembly graph motifs to biological variants. <i>Genome Biology</i> , 2019, 20, 174. | 3.8 | 14 |
| 104 | SeqScreen: accurate and sensitive functional screening of pathogenic sequences via ensemble learning. <i>Genome Biology</i> , 2022, 23, . | 3.8 | 13 |
| 105 | Identification of microbiota dynamics using robust parameter estimation methods. <i>Mathematical Biosciences</i> , 2017, 294, 71-84. | 0.9 | 12 |
| 106 | MetAMOS: a metagenomic assembly and analysis pipeline for AMOS. <i>Genome Biology</i> , 2011, 12, . | 13.9 | 11 |
| 107 | Characterization of Two Cryptic Plasmids Isolated in Haiti from Clinical <i>Vibrio cholerae</i> Non-O1/Non-O139. <i>Frontiers in Microbiology</i> , 2017, 8, 2283. | 1.5 | 11 |
| 108 | Metagenomic analysis of bacterial and viral assemblages from a freshwater creek and irrigated field reveals temporal and spatial dynamics. <i>Science of the Total Environment</i> , 2020, 706, 135395. | 3.9 | 11 |

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|-----|---|-----|-----------|
| 109 | Complete genome sequence and comparative analysis of the metabolically versatile <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , 2003, 5, 630-630. | 1.8 | 10 |
| 110 | Finding Biologically Accurate Clusterings in Hierarchical Tree Decompositions Using the Variation of Information. <i>Lecture Notes in Computer Science</i> , 2009, , 400-417. | 1.0 | 10 |
| 111 | Capturing the most wanted taxa through cross-sample correlations. <i>ISME Journal</i> , 2016, 10, 2459-2467. | 4.4 | 9 |
| 112 | Evaluating the accuracy of <i>Listeria monocytogenes</i> assemblies from quasimetagenomic samples using long and short reads. <i>BMC Genomics</i> , 2021, 22, 389. | 1.2 | 9 |
| 113 | Efficient perspective-accurate silhouette computation. , 1999, , . | | 8 |
| 114 | Microbiota of the Hickey Run Tributary of the Anacostia River. <i>Microbiology Resource Announcements</i> , 2019, 8, . | 0.3 | 8 |
| 115 | Accurate and fast estimation of taxonomic profiles from metagenomic shotgun sequences. <i>Genome Biology</i> , 2011, 12, . | 3.8 | 7 |
| 116 | SeqScreen: a biocuration platform for robust taxonomic and biological process characterization of nucleic acid sequences of interest. , 2019, , . | | 7 |
| 117 | Zero-Valent Iron Sand Filtration Can Reduce Human and Plant Pathogenic Bacteria While Increasing Plant Growth Promoting Bacteria in Reclaimed Water. <i>Frontiers in Environmental Science</i> , 2020, 8, . | 1.5 | 7 |
| 118 | What do Eulerian and Hamiltonian cycles have to do with genome assembly?. <i>PLoS Computational Biology</i> , 2021, 17, e1008928. | 1.5 | 7 |
| 119 | Current State of and Future Opportunities for Prediction in Microbiome Research: Report from the Mid-Atlantic Microbiome Meet-up in Baltimore on 9 January 2019. <i>MSystems</i> , 2019, 4, . | 1.7 | 6 |
| 120 | Embracing Ambiguity in the Taxonomic Classification of Microbiome Sequencing Data. <i>Frontiers in Genetics</i> , 2019, 10, 1022. | 1.1 | 6 |
| 121 | Inexact Local Alignment Search over Suffix Arrays. , 2009, 2009, 83-97. | | 4 |
| 122 | High-Throughput Sequencing as a Tool for Exploring the Human Microbiome. , 2015, , 55-66. | | 3 |
| 123 | You can't always sequence your way out of a tight spot. <i>EMBO Reports</i> , 2018, 19, . | 2.0 | 3 |
| 124 | Whole-Genome Assessment of Clinical <i>Acinetobacter baumannii</i> Isolates Uncovers Potentially Novel Factors Influencing Carbapenem Resistance. <i>Frontiers in Microbiology</i> , 2021, 12, 714284. | 1.5 | 3 |
| 125 | Identifying Differentially Abundant Metabolic Pathways in Metagenomic Datasets. <i>Lecture Notes in Computer Science</i> , 2010, , 101-112. | 1.0 | 3 |
| 126 | Better Identification of Repeats in Metagenomic Scaffolding. <i>Lecture Notes in Computer Science</i> , 2016, , 174-184. | 1.0 | 2 |

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|-----|--|------|-----------|
| 127 | Binnacle: Using Scaffolds to Improve the Contiguity and Quality of Metagenomic Bins. <i>Frontiers in Microbiology</i> , 2021, 12, 638561. | 1.5 | 2 |
| 128 | K-mulus: Strategies for BLAST in the Cloud. <i>Lecture Notes in Computer Science</i> , 2014, , 237-246. | 1.0 | 2 |
| 129 | Viral diversity in children with diarrhea in Gambia. <i>Genome Biology</i> , 2011, 12, . | 13.9 | 1 |
| 130 | De novo likelihood-based measures for comparing metagenomic assemblies. , 2013, , . | | 1 |
| 131 | Limitations of Current Approaches for Reference-Free, Graph-Based Variant Detection. , 2016, , . | | 1 |
| 132 | Suppression subtractive hybridization PCR isolation of cDNAs from a Caribbean soft coral. <i>Electronic Journal of Biotechnology</i> , 2001, 14, . | 1.2 | 0 |
| 133 | Microbial dynamics of human obesity. , 2009, , . | | 0 |
| 134 | Statistical methods for comparing the abundances of metabolic pathways in metagenomics. <i>Genome Biology</i> , 2010, 11, . | 3.8 | 0 |
| 135 | Workshop: Can you assemble whole genomes from next generation sequencing data?. , 2011, , . | | 0 |
| 136 | Reconstructing microbial communities. <i>Genome Biology</i> , 2011, 12, . | 13.9 | 0 |
| 137 | On using optical maps for genome assembly. <i>Genome Biology</i> , 2011, 12, . | 13.9 | 0 |
| 138 | ScaffViz: visualizing metagenome assemblies. <i>Genome Biology</i> , 2011, 12, . | 13.9 | 0 |
| 139 | Invited: Challenges in metagenomic assembly. , 2011, , . | | 0 |
| 140 | Workshop: Comparative assembly of metagenomic sequences. , 2012, , . | | 0 |
| 141 | Computational challenges in microbiome research. , 2015, , . | | 0 |
| 142 | Human Microbiome, Assembly and Analysis Software, Project. , 2012, , 1-4. | | 0 |
| 143 | Benchmarking of computational error-correction methods for next-generation sequencing data. , 2020, , . | | 0 |