Kazuharu Arakawa

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102 2,321 24 46 g-index

114 3,040 4.6 ext. papers ext. citations avg, IF L-index

| # | Paper | IF | Citations |
|-----|---|---------------|-----------|
| 102 | Multiple high-throughput analyses monitor the response of E. coli to perturbations. <i>Science</i> , 2007 , 316, 593-7 | 33.3 | 574 |
| 101 | Extremotolerant tardigrade genome and improved radiotolerance of human cultured cells by tardigrade-unique protein. <i>Nature Communications</i> , 2016 , 7, 12808 | 17.4 | 160 |
| 100 | Nanopore sequencing: Review of potential applications in functional genomics. <i>Development Growth and Differentiation</i> , 2019 , 61, 316-326 | 3 | 125 |
| 99 | Comparative genomics of the tardigrades Hypsibius dujardini and Ramazzottius varieornatus. <i>PLoS Biology</i> , 2017 , 15, e2002266 | 9.7 | 107 |
| 98 | Two novel heat-soluble protein families abundantly expressed in an anhydrobiotic tardigrade. <i>PLoS ONE</i> , 2012 , 7, e44209 | 3.7 | 70 |
| 97 | Pathway projector: web-based zoomable pathway browser using KEGG atlas and Google Maps API. <i>PLoS ONE</i> , 2009 , 4, e7710 | 3.7 | 68 |
| 96 | Base editors for simultaneous introduction of C-to-T and A-to-G mutations. <i>Nature Biotechnology</i> , 2020 , 38, 865-869 | 44.5 | 63 |
| 95 | KEGG-based pathway visualization tool for complex omics data. <i>In Silico Biology</i> , 2005 , 5, 419-23 | 2 | 63 |
| 94 | De novo assembly and comparative transcriptome analysis of Euglena gracilis in response to anaerobic conditions. <i>BMC Genomics</i> , 2016 , 17, 182 | 4.5 | 60 |
| 93 | Novel mitochondria-targeted heat-soluble proteins identified in the anhydrobiotic Tardigrade improve osmotic tolerance of human cells. <i>PLoS ONE</i> , 2015 , 10, e0118272 | 3.7 | 54 |
| 92 | Analysis of DNA repair and protection in the Tardigrade Ramazzottius varieornatus and Hypsibius dujardini after exposure to UVC radiation. <i>PLoS ONE</i> , 2013 , 8, e64793 | 3.7 | 53 |
| 91 | Comprehensive prediction of chromosome dimer resolution sites in bacterial genomes. <i>BMC Genomics</i> , 2011 , 12, 19 | 4.5 | 51 |
| 90 | BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. <i>Journal of Biomedical Semantics</i> , 2014 , 5, 5 | 2.2 | 42 |
| 89 | No evidence for extensive horizontal gene transfer from the draft genome of a tardigrade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3057 | 11.5 | 42 |
| 88 | Orb-weaving spider Araneus ventricosus genome elucidates the spidroin gene catalogue. <i>Scientific Reports</i> , 2019 , 9, 8380 | 4.9 | 41 |
| 87 | Genome sequencing of a single tardigrade Hypsibius dujardini individual. <i>Scientific Data</i> , 2016 , 3, 1600 | 53 8.2 | 37 |
| 86 | GEM System: automatic prototyping of cell-wide metabolic pathway models from genomes. <i>BMC Bioinformatics</i> , 2006 , 7, 168 | 3.6 | 36 |

(2007-2017)

| 85 | Analysis of repetitive amino acid motifs reveals the essential features of spider dragline silk proteins. <i>PLoS ONE</i> , 2017 , 12, e0183397 | 3.7 | 34 |
|----|---|------|----|
| 84 | Glucan synthase-like 2 is indispensable for paramylon synthesis in Euglenalgracilis. <i>FEBS Letters</i> , 2017 , 591, 1360-1370 | 3.8 | 32 |
| 83 | Genome Projector: zoomable genome map with multiple views. <i>BMC Bioinformatics</i> , 2009 , 10, 31 | 3.6 | 32 |
| 82 | Evaluation of the impact of RNA preservation methods of spiders for de novo transcriptome assembly. <i>Molecular Ecology Resources</i> , 2016 , 16, 662-72 | 8.4 | 26 |
| 81 | Metabolic flux analysis and visualization. <i>Journal of Proteome Research</i> , 2011 , 10, 3313-23 | 5.6 | 26 |
| 80 | G-language System as a platform for large-scale analysis of high-throughput omics data. <i>Journal of Pesticide Sciences</i> , 2006 , 31, 282-288 | 2.7 | 26 |
| 79 | Spider silk self-assembly via modular liquid-liquid phase separation and nanofibrillation. <i>Science Advances</i> , 2020 , 6, | 14.3 | 24 |
| 78 | Quantitative analysis of replication-related mutation and selection pressures in bacterial chromosomes and plasmids using generalised GC skew index. <i>BMC Genomics</i> , 2009 , 10, 640 | 4.5 | 24 |
| 77 | The GC skew index: a measure of genomic compositional asymmetry and the degree of replicational selection. <i>Evolutionary Bioinformatics</i> , 2007 , 3, 159-68 | 1.9 | 24 |
| 76 | The 3rd DBCLS BioHackathon: improving life science data integration with Semantic Web technologies. <i>Journal of Biomedical Semantics</i> , 2013 , 4, 6 | 2.2 | 22 |
| 75 | An integrative description of Macrobiotus shonaicus sp. nov. (Tardigrada: Macrobiotidae) from Japan with notes on its phylogenetic position within the hufelandi group. <i>PLoS ONE</i> , 2018 , 13, e019221 | 03.7 | 19 |
| 74 | The bagworm genome reveals a unique fibroin gene that provides high tensile strength. <i>Communications Biology</i> , 2019 , 2, 148 | 6.7 | 18 |
| 73 | A new redescription of , supported by transcriptome, provides resources for describing concealed species diversity within the monotypic genus (Eutardigrada). <i>Zoological Letters</i> , 2020 , 6, 2 | 3 | 17 |
| 72 | Merging multiple omics datasets in silico: statistical analyses and data interpretation. <i>Methods in Molecular Biology</i> , 2013 , 985, 459-70 | 1.4 | 15 |
| 71 | The 2nd DBCLS BioHackathon: interoperable bioinformatics Web services for integrated applications. <i>Journal of Biomedical Semantics</i> , 2011 , 2, 4 | 2.2 | 15 |
| 70 | Measures of compositional strand bias related to replication machinery and its applications. <i>Current Genomics</i> , 2012 , 13, 4-15 | 2.6 | 15 |
| 69 | Validating the significance of genomic properties of Chi sites from the distribution of all octamers in Escherichia coli. <i>Gene</i> , 2007 , 392, 239-46 | 3.8 | 15 |
| 68 | Noise-reduction filtering for accurate detection of replication termini in bacterial genomes. <i>FEBS Letters</i> , 2007 , 581, 253-8 | 3.8 | 15 |

| 67 | Multicomponent nature underlies the extraordinary mechanical properties of spider dragline silk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 15 |
|----|--|------|----|
| 66 | Spidroin profiling of cribellate spiders provides insight into the evolution of spider prey capture strategies. <i>Scientific Reports</i> , 2020 , 10, 15721 | 4.9 | 14 |
| 65 | Molecular palaeontology illuminates the evolution of ecdysozoan vision. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285, | 4.4 | 13 |
| 64 | G-language genome analysis environment with REST and SOAP web service interfaces. <i>Nucleic Acids Research</i> , 2010 , 38, W700-5 | 20.1 | 12 |
| 63 | GEMBASSY: an EMBOSS associated software package for comprehensive genome analyses. <i>Source Code for Biology and Medicine</i> , 2013 , 8, 17 | 1.9 | 11 |
| 62 | Patterns of population structure and complex haplotype sharing among field isolates of the green alga Chlamydomonas reinhardtii. <i>Molecular Ecology</i> , 2019 , 28, 3977-3993 | 5.7 | 10 |
| 61 | Validation of bacterial replication termination models using simulation of genomic mutations. <i>PLoS ONE</i> , 2012 , 7, e34526 | 3.7 | 10 |
| 60 | Accelerated Laboratory Evolution Reveals the Influence of Replication on the GC Skew in Escherichia coli. <i>Genome Biology and Evolution</i> , 2018 , 10, 3110-3117 | 3.9 | 9 |
| 59 | MEGU: pathway mapping web-service based on KEGG and SVG. <i>In Silico Biology</i> , 2006 , 6, 621-5 | 2 | 9 |
| 58 | Undesigned selection for replication termination of bacterial chromosomes. <i>Journal of Molecular Biology</i> , 2014 , 426, 2918-27 | 6.5 | 8 |
| 57 | Restauro-G: a rapid genome re-annotation system for comparative genomics. <i>Genomics, Proteomics and Bioinformatics</i> , 2007 , 5, 53-8 | 6.5 | 7 |
| 56 | On the interplay of gene positioning and the role of rho-independent terminators in Escherichia coli. <i>FEBS Letters</i> , 2006 , 580, 6909-14 | 3.8 | 7 |
| 55 | Desiccation-induced fibrous condensation of CAHS protein from an anhydrobiotic tardigrade. <i>Scientific Reports</i> , 2021 , 11, 21328 | 4.9 | 7 |
| 54 | Reconsidering the "glass transition" hypothesis of intrinsically unstructured CAHS proteins in desiccation tolerance of tardigrades. <i>Molecular Cell</i> , 2021 , 81, 409-410 | 17.6 | 7 |
| 53 | Ultralow Input Genome Sequencing Library Preparation from a Single Tardigrade Specimen. <i>Journal of Visualized Experiments</i> , 2018 , | 1.6 | 6 |
| 52 | Multiomics study of a heterotardigrade, Echinisicus testudo, suggests the possibility of convergent evolution of abundant heat-soluble proteins in Tardigrada. <i>BMC Genomics</i> , 2021 , 22, 813 | 4.5 | 6 |
| 51 | Comparative genomics of the tardigrades Hypsibius dujardini and Ramazzottius varieornatus | | 6 |
| 50 | AMPK activity is required for the induction of anhydrobiosis in a tardigrade Hypsibius exemplaris, and its potential up-regulator is PP2A. <i>Genes To Cells</i> , 2019 , 24, 768-780 | 2.3 | 5 |

(2019-2014)

| 49 | Hybridization between Japanese and North American Chlamydomonas reinhardtii (Volvocales, Chlorophyceae). <i>Phycological Research</i> , 2014 , 62, 232-236 | 1.3 | 5 | |
|----|--|-----|---|--|
| 48 | The Unique Antimicrobial Recognition and Signaling Pathways in Tardigrades with a Comparison Across Ecdysozoa. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 1137-1148 | 3.2 | 5 | |
| 47 | Selection effects on the positioning of genes and gene structures from the interplay of replication and transcription in bacterial genomes. <i>Evolutionary Bioinformatics</i> , 2007 , 3, 279-86 | 1.9 | 5 | |
| 46 | The complete mitochondrial genome of (Lepidoptera: Psychidae). <i>Mitochondrial DNA Part B:</i> Resources, 2018 , 3, 812-813 | 0.5 | 5 | |
| 45 | The balance of crystalline and amorphous regions in the fibroin structure underpins the tensile strength of bagworm silk. <i>Zoological Letters</i> , 2021 , 7, 11 | 3 | 5 | |
| 44 | Darwin's bark spider shares a spidroin repertoire with but achieves extraordinary silk toughness through gene expression <i>Open Biology</i> , 2021 , 11, 210242 | 7 | 5 | |
| 43 | Simultaneous Metabarcoding of Eukaryotes and Prokaryotes to Elucidate the Community Structures within Tardigrade Microhabitats. <i>Diversity</i> , 2020 , 12, 110 | 2.5 | 4 | |
| 42 | Pre-treatment with D942, a furancarboxylic acid derivative, increases desiccation tolerance in an anhydrobiotic tardigrade Hypsibius exemplaris. <i>FEBS Open Bio</i> , 2020 , 10, 1774-1781 | 2.7 | 4 | |
| 41 | A web server for interactive and zoomable Chaos Game Representation images. <i>Source Code for Biology and Medicine</i> , 2009 , 4, 6 | 1.9 | 4 | |
| 40 | Comparison of the transcriptomes of two tardigrades with different hatching coordination. <i>BMC Developmental Biology</i> , 2019 , 19, 24 | 3.1 | 4 | |
| 39 | Complete Genome Sequence of sp. Strain KH172YL61, Isolated from Deep-Sea Sediments in the Nankai Trough, Japan. <i>Microbiology Resource Announcements</i> , 2019 , 8, | 1.3 | 3 | |
| 38 | Horizontal Gene Transfer in Metazoa: Examples and Methods 2019 , 203-226 | | 3 | |
| 37 | KBWS: an EMBOSS associated package for accessing bioinformatics web services. <i>Source Code for Biology and Medicine</i> , 2011 , 6, 8 | 1.9 | 3 | |
| 36 | G-Links: a gene-centric link acquisition service. <i>F1000Research</i> , 2014 , 3, 285 | 3.6 | 3 | |
| 35 | Proteomic evidence for the silk fibroin genes of spider mites (Order Trombidiformes: Family Tetranychidae). <i>Journal of Proteomics</i> , 2021 , 239, 104195 | 3.9 | 3 | |
| 34 | Comparative proteomic analysis of mitochondria isolated from Euglena gracilis under aerobic and hypoxic conditions. <i>PLoS ONE</i> , 2019 , 14, e0227226 | 3.7 | 3 | |
| 33 | The complete mitochondrial genome of (Heterotardigrada: Echiniscidae). <i>Mitochondrial DNA Part B: Resources</i> , 2018 , 3, 810-811 | 0.5 | 3 | |
| 32 | Complete Genome Sequence of Halomonas olivaria, a Moderately Halophilic Bacterium Isolated from Olive Processing Effluents, Obtained by Nanopore Sequencing. <i>Microbiology Resource Announcements</i> , 2019 , 8, | 1.3 | 2 | |

| 31 | Complete Genome Sequence of . Strain MN05-02, a UV-Resistant Bacterium from a Manganese Deposit in the Sonoran Desert. <i>Journal of Genomics</i> , 2019 , 7, 18-25 | 0.9 | 2 |
|----|---|------|---|
| 30 | Complete Genome Sequence of Halophilic Deep-Sea Bacterium Halomonas axialensis Strain Althf1. <i>Microbiology Resource Announcements</i> , 2019 , 8, | 1.3 | 2 |
| 29 | A novel Mn-dependent peroxidase contributes to tardigrade anhydrobiosis | | 2 |
| 28 | Rearing and observation of immature stages of the hoverfly (Diptera, Syrphidae). <i>Biodiversity Data Journal</i> , 2016 , e10185 | 1.8 | 2 |
| 27 | Complete Genome Sequence of Halomonas meridiana Strain Eplume2, Isolated from a Hydrothermal Plume in the Northeast Pacific Ocean. <i>Microbiology Resource Announcements</i> , 2020 , 9, | 1.3 | 2 |
| 26 | G-Links: a gene-centric link acquisition service. <i>F1000Research</i> , 2014 , 3, 285 | 3.6 | 2 |
| 25 | Genome sequencing of a single tardigrade Hypsibius dujardini individual | | 2 |
| 24 | Complete Genome Sequence of Adlercreutzia equolifaciens subsp. DSM 18785. <i>Microbiology Resource Announcements</i> , 2021 , 10, | 1.3 | 2 |
| 23 | Systematics of tardigrada: A reanalysis of tardigrade taxonomy with specific reference to Guil et al. (2019). <i>Zoologica Scripta</i> , 2021 , 50, 376-382 | 2.5 | 2 |
| 22 | Transcriptomic data during development of a two-spotted cricket. <i>Data in Brief</i> , 2021 , 38, 107388 | 1.2 | 2 |
| 21 | GPAC: benchmarking the sensitivity of genome informatics analysis to genome annotation completeness. <i>In Silico Biology</i> , 2006 , 6, 49-60 | 2 | 2 |
| 20 | Examples of Extreme Survival: Tardigrade Genomics and Molecular Anhydrobiology <i>Annual Review of Animal Biosciences</i> , 2022 , 10, 17-37 | 13.7 | 2 |
| 19 | Complete Genome Sequence of Halomonas sulfidaeris Strain Esulfide1 Isolated from a Metal Sulfide Rock at a Depth of 2,200 Meters, Obtained Using Nanopore Sequencing. <i>Microbiology Resource Announcements</i> , 2019 , 8, | 1.3 | 1 |
| 18 | Complete Genome Sequence of sp. Strain KH172YL63, Isolated from Deep-Sea Sediment. <i>Microbiology Resource Announcements</i> , 2020 , 9, | 1.3 | 1 |
| 17 | Complete Genome Sequence of Halomonas meridiana Strain Slthf1, Isolated from a Deep-Sea Thermal Vent. <i>Microbiology Resource Announcements</i> , 2020 , 9, | 1.3 | 1 |
| 16 | Complete Genome Sequence of Halomonas hydrothermalis Strain Slthf2, a Halophilic Bacterium Isolated from a Deep-Sea Hydrothermal-Vent Environment. <i>Microbiology Resource Announcements</i> , 2020 , 9, | 1.3 | 1 |
| 15 | Complete Genome Sequence of Bifidobacterium longum Strain Jih1, Isolated from Human Feces. <i>Microbiology Resource Announcements</i> , 2020 , 9, | 1.3 | 1 |
| 14 | Complete Genome Sequences of Two Cutibacterium acnes Strains Isolated from an Orthopedic Surgical Site. <i>Microbiology Resource Announcements</i> , 2020 , 9, | 1.3 | 1 |

LIST OF PUBLICATIONS

| 13 | Multiomics study of a heterotardigrade, Echinisicus testudo, suggests convergent evolution of anhydrobiosis-related proteins in Tardigrada | | 1 | |
|----|--|-----|---|--|
| 12 | Shifts in morphology, gene expression, and selection underlie web loss in Hawaiian Tetragnatha spiders. <i>Bmc Ecology and Evolution</i> , 2021 , 21, 48 | 21 | 1 | |
| 11 | Multicomponent nature underlies the extraordinary mechanical properties of spider dragline silk | | 1 | |
| 10 | Complete Genome Sequence of sp. Strain SVR, an Antimonate-Reducing Bacterium Isolated from Antimony-Rich Mine Soil. <i>Microbiology Resource Announcements</i> , 2021 , 10, | 1.3 | 1 | |
| 9 | RNA sequencing data for gamma radiation response in the extremotolerant tardigrade. <i>Data in Brief</i> , 2021 , 36, 107111 | 1.2 | 1 | |
| 8 | Desiccation-induced fibrous condensation of CAHS protein from an anhydrobiotic tardigrade | | 1 | |
| 7 | Darwin bark spider shares a spidroin repertoire with Caerostris extrusa but achieves extraordinary silk toughness through gene expression | | 1 | |
| 6 | Complete Genome Sequence of Sphingomonas paucimobilis Strain Kira, Isolated from Human Neuroblastoma SH-SY5Y Cell Cultures Supplemented with Retinoic Acid. <i>Microbiology Resource Announcements</i> , 2021 , 10, | 1.3 | 1 | |
| 5 | Tardigrade Secretory-Abundant Heat-Soluble Protein Has a Flexible Barrel Structure in Solution and Keeps This Structure in Dehydration. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 9145-9154 | 3.4 | 1 | |
| 4 | Complete Genome Sequences of Four Bacteria Isolated from the Gut of a Spiny Ant (Polyrhachis lamellidens). <i>Microbiology Resource Announcements</i> , | 1.3 | 1 | |
| 3 | Complete Genome Sequence of Bacterium Strain P1, Isolated from Mouse Feces. <i>Microbiology Resource Announcements</i> , 2021 , 10, e0062721 | 1.3 | | |
| 2 | Complete Genome Sequences of Two Strains, Isolated from Seawater () and Soil () in South Korea. <i>Microbiology Resource Announcements</i> , 2021 , 10, e0033721 | 1.3 | | |
| 1 | The complete mitochondrial genome of (Araneae: Araneidae). <i>Mitochondrial DNA Part B: Resources</i> , | 0.5 | | |