# John M Archibald

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 107 papers | 7,434 citations | 66315 42 h-index | 60583 81 g-index |
| 112 all docs | 112 docs citations | 112 times ranked | 6758 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. PLoS Biology, 2014, 12, e1001889. | 2.6 | 885 |
| 2 | Endosymbiosis and Eukaryotic Cell Evolution. Current Biology, 2015, 25, R911-R921. | 1.8 | 426 |
| 3 | The Puzzle of Plastid Evolution. Current Biology, 2009, 19, R81-R88. | 1.8 | 413 |
| 4 | Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. Nature, 2012, 492, 59-65. | 13.7 | 377 |
| 5 | The eukaryotic tree of life: endosymbiosis takes its TOL. Trends in Ecology and Evolution, 2008, 23, 268-275. | 4.2 | 267 |
| 6 | Lateral gene transfer and the evolution of plastid-targeted proteins in the secondary plastid-containing alga Bigelowiella natans. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7678-7683. | 3.3 | 241 |
| 7 | Plant evolution: landmarks on the path to terrestrial life. New Phytologist, 2018, 217, 1428-1434. | 3.5 | 236 |
| 8 | Recycled plastids: a â€˜green movementâ€™ in eukaryotic evolution. Trends in Genetics, 2002, 18, 577-584. | 2.9 | 212 |
| 9 | Probing the evolution, ecology and physiology of marine protists using transcriptomics. Nature Reviews Microbiology, 2017, 15, 6-20. | 13.6 | 176 |
| 10 | 10KP: A phylodiverse genome sequencing plan. GigaScience, 2018, 7, 1-9. | 3.3 | 169 |
| 11 | Embryophyte stress signaling evolved in the algal progenitors of land plants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3471-E3480. | 3.3 | 164 |
| 12 | Large-Scale Phylogenomic Analyses Reveal That Two Enigmatic Protist Lineages, Telonemia and Centroheliozoa, Are Related to Photosynthetic Chromalveolates. Genome Biology and Evolution, 2009, 1, 231-238. | 1.1 | 143 |
| 13 | Nucleomorph genome of <i>Hemiselmis andersenii</i> reveals complete intron loss and compaction as a driver of protein structure and function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19908-19913. | 3.3 | 139 |
| 14 | Streptophyte Terrestrialization in Light of Plastid Evolution. Trends in Plant Science, 2016, 21, 467-476. | 4.3 | 136 |
| 15 | The Earth BioGenome Project 2020: Starting the clock. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 124 |
| 16 | Complete genome of a nonphotosynthetic cyanobacterium in a diatom reveals recent adaptations to an intracellular lifestyle. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11407-11412. | 3.3 | 121 |
| 17 | Genomic perspectives on the birth and spread of plastids. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10147-10153. | 3.3 | 121 |
| 18 | Nucleomorph genomes: structure, function, origin and evolution. BioEssays, 2007, 29, 392-402. | 1.2 | 103 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | How Embryophytic is the Biosynthesis of Phenylpropanoids and their Derivatives in Streptophyte Algae?. Plant and Cell Physiology, 2017, 58, 934-945. | 1.5 | 102 |
| 20 | Plastid Genome Sequence of the Cryptophyte Alga Rhodomonas salina CCMP1319: Lateral Transfer of Putative DNA Replication Machinery and a Test of Chromist Plastid Phylogeny. Molecular Biology and Evolution, 2007, 24, 1832-1842. | 3.5 | 100 |
| 21 | Extreme genome diversity in the hyper-prevalent parasitic eukaryote Blastocystis. PLoS Biology, 2017, 15, e2003769. | 2.6 | 99 |
| 22 | Lateral Gene Transfer in the Adaptation of the Anaerobic Parasite Blastocystis to the Gut. Current Biology, 2017, 27, 807-820. | 1.8 | 94 |
| 23 | The New Red Algal Subphylum Proteorhodophytina Comprises the Largest and Most Divergent Plastid Genomes Known. Current Biology, 2017, 27, 1677-1684.e4. | 1.8 | 89 |
| 24 | A Novel Polyubiquitin Structure in Cercozoa and Foraminifera: Evidence for a New Eukaryotic Supergroup. Molecular Biology and Evolution, 2003, 20, 62-66. | 3.5 | 87 |
| 25 | Nucleomorph Genomes. Annual Review of Genetics, 2009, 43, 251-264. | 3.2 | 80 |
| 26 | Genomic Insights into Plastid Evolution. Genome Biology and Evolution, 2020, 12, 978-990. | 1.1 | 79 |
| 27 | More protist genomes needed. Nature Ecology and Evolution, 2017, 1, 145. | 3.4 | 78 |
| 28 | The Complete Plastid Genome Sequence of the Secondarily Nonphotosynthetic Alga Cryptomonas paramecium: Reduction, Compaction, and Accelerated Evolutionary Rate. Genome Biology and Evolution, 2009, 1, 439-448. | 1.1 | 70 |
| 29 | Alternatives to vitamin B1 uptake revealed with discovery of riboswitches in multiple marine eukaryotic lineages. ISME Journal, 2014, 8, 2517-2529. | 4.4 | 69 |
| 30 | Heat stress response in the closest algal relatives of land plants reveals conserved stress signaling circuits. Plant Journal, 2020, 103, 1025-1048. | 2.8 | 65 |
| 31 | Actin and Ubiquitin Protein Sequences Support a Cercozoan/Foraminiferan Ancestry for the Plasmodiophorid Plant Pathogens. Journal of Eukaryotic Microbiology, 2004, 51, 113-118. | 0.8 | 62 |
| 32 | Complete Nucleomorph Genome Sequence of the Nonphotosynthetic Alga Cryptomonas paramecium Reveals a Core Nucleomorph Gene Set. Genome Biology and Evolution, 2011, 3, 44-54. | 1.1 | 62 |
| 33 | The Chaperonin Genes of Jakobid and Jakobid-Like Flagellates: Implications for Eukaryotic Evolution. Molecular Biology and Evolution, 2002, 19, 422-431. | 3.5 | 59 |
| 34 | Endosymbiosis: Did Plastids Evolve from a Freshwater Cyanobacterium?. Current Biology, 2017, 27, R103-R105. | 1.8 | 56 |
| 35 | On plant defense signaling networks and early land plant evolution. Communicative and Integrative Biology, 2018, 11, 1-14. | 0.6 | 54 |
| 36 | Eukaryote-to-eukaryote gene transfer gives rise to genome mosaicism in euglenids. BMC Evolutionary Biology, 2011, 11, 105. | 3.2 | 53 |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 37 | Localization and Evolution of Putative Triose Phosphate Translocators in the Diatom<i>Phaeodactylum tricornutum</i>. Genome Biology and Evolution, 2015, 7, 2955-2969. | 1.1 | 53 |
| 38 | A Non-photosynthetic Diatom Reveals Early Steps of Reductive Evolution in Plastids. Molecular Biology and Evolution, 2017, 34, 2355-2366. | 3.5 | 52 |
| 39 | Evolutionary Dynamics of Cryptophyte Plastid Genomes. Genome Biology and Evolution, 2017, 9, 1859-1872. | 1.1 | 51 |
| 40 | Why sequence all eukaryotes?. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 51 |
| 41 | Nucleomorph Genome Sequence of the Cryptophyte Alga Chroomonas mesostigmatica CCMP1168 Reveals Lineage-Specific Gene Loss and Genome Complexity. Genome Biology and Evolution, 2012, 4, 1162-1175. | 1.1 | 50 |
| 42 | Complete Sequence and Analysis of the Mitochondrial Genome of Hemiselmis andersenii CCMP644 (Cryptophyceae). BMC Genomics, 2008, 9, 215. | 1.2 | 49 |
| 43 | Dual Organellar Targeting of Aminoacyl-tRNA Synthetases in Diatoms and Cryptophytes. Genome Biology and Evolution, 2015, 7, 1728-1742. | 1.1 | 46 |
| 44 | Jumping Genes and Shrinking Genomes â€“ Probing the Evolution of Eukaryotic Photosynthesis with Genomics. IUBMB Life, 2005, 57, 539-547. | 1.5 | 45 |
| 45 | Genome sequencing reveals metabolic and cellular interdependence in an amoeba-kinetoplastid symbiosis. Scientific Reports, 2017, 7, 11688. | 1.6 | 44 |
| 46 | Insight into the Diversity and Evolution of the Cryptomonad Nucleomorph Genome. Molecular Biology and Evolution, 2006, 23, 856-865. | 3.5 | 42 |
| 47 | Nuclear genome sequence of the plastid-lacking cryptomonad Goniomonas avonlea provides insights into the evolution of secondary plastids. BMC Biology, 2018, 16, 137. | 1.7 | 42 |
| 48 | Opportunistic but Lethal: The Mystery of Paramoebae. Trends in Parasitology, 2018, 34, 404-419. | 1.5 | 41 |
| 49 | Lateral Gene Transfer Mechanisms and Pan-genomes in Eukaryotes. Trends in Parasitology, 2020, 36, 927-941. | 1.5 | 41 |
| 50 | Massive mitochondrial DNA content in diplonemid and kinetoplastid protists. IUBMB Life, 2018, 70, 1267-1274. | 1.5 | 39 |
| 51 | Going, Going, Not Quite Gone: Nucleomorphs as a Case Study in Nuclear Genome Reduction. Journal of Heredity, 2009, 100, 582-590. | 1.0 | 38 |
| 52 | NEW MARINE MEMBERS OF THE GENUS <i>HEMISELMIS</i> (CRYPTOMONADALES,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (CRY | 1.0 | 37 |
| 53 | Lateral transfer of introns in the cryptophyte plastid genome. Nucleic Acids Research, 2008, 36, 3043-3053. | 6.5 | 34 |
| 54 | Symbiosis in the microbial world: from ecology to genome evolution. Biology Open, 2018, 7, . | 0.6 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Ultrastructure and Molecular Phylogeny of the Cryptomonad Goniomonas avonlea sp. nov.. Protist, 2013, 164, 160-182. | 0.6 | 33 |
| 56 | Standards recommendations for the Earth BioGenome Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 33 |
| 57 | Gene transfer: anything goes in plant mitochondria. BMC Biology, 2010, 8, 147. | 1.7 | 32 |
| 58 | Origin of eukaryotic cells: 40Âyears on. Symbiosis, 2011, 54, 69-86. | 1.2 | 32 |
| 59 | Nucleomorph and plastid genome sequences of the chlorarachniophyte Lotharella oceanica: convergent reductive evolution and frequent recombination in nucleomorph-bearing algae. BMC Genomics, 2014, 15, 374. | 1.2 | 32 |
| 60 | Gene Conversion and the Evolution of Euryarchaeal Chaperonins: A Maximum Likelihood-Based Method for Detecting Conflicting Phylogenetic Signals. Journal of Molecular Evolution, 2002, 55, 232-245. | 0.8 | 30 |
| 61 | Novel Ubiquitin Fusion Proteins: Ribosomal Protein P1 and Actin. Journal of Molecular Biology, 2003, 328, 771-778. | 2.0 | 28 |
| 62 | Gene Loss and Error-Prone RNA Editing in the Mitochondrion of <i>Perkinsela</i> , an Endosymbiotic Kinetoplastid. MBio, 2015, 6, e01498-15. | 1.8 | 28 |
| 63 | Molecular Chaperones Encoded by a Reduced Nucleus: The Cryptomonad Nucleomorph. Journal of Molecular Evolution, 2001, 52, 490-501. | 0.8 | 27 |
| 64 | Comparative plastid genomics of Synurophyceae: inverted repeat dynamics and gene content variation. BMC Evolutionary Biology, 2019, 19, 20. | 3.2 | 27 |
| 65 | Comparative Plastid Genomics of Cryptomonas Species Reveals Fine-Scale Genomic Responses to Loss of Photosynthesis. Genome Biology and Evolution, 2020, 12, 3926-3937. | 1.1 | 27 |
| 66 | Treetrimmer: a method for phylogenetic dataset size reduction. BMC Research Notes, 2013, 6, 145. | 0.6 | 25 |
| 67 | Endosymbiosis: Double-Take on Plastid Origins. Current Biology, 2006, 16, R690-R692. | 1.8 | 24 |
| 68 | Comparative genomics of mitochondria in chlorarachniophyte algae: endosymbiotic gene transfer and organellar genome dynamics. Scientific Reports, 2016, 6, 21016. | 1.6 | 23 |
| 69 | Comparative mitochondrial genomics of cryptophyte algae: gene shuffling and dynamic mobile genetic elements. BMC Genomics, 2018, 19, 275. | 1.2 | 23 |
| 70 | Plastid genomes. Current Biology, 2018, 28, R336-R337. | 1.8 | 22 |
| 71 | Re-examination of two diatom reference genomes using long-read sequencing. BMC Genomics, 2021, 22, 379. | 1.2 | 22 |
| 72 | The eocyte hypothesis and the origin of eukaryotic cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20049-20050. | 3.3 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Genomic Characterization of Neoparamoeba pemaquidensis (Amoebozoa) and Its Kinetoplastid Endosymbiont. Eukaryotic Cell, 2011, 10, 1143-1146. | 3.4 | 20 |
| 74 | Reduced Nuclear Genomes Maintain High Gene Transcription Levels. Molecular Biology and Evolution, 2014, 31, 625-635. | 3.5 | 20 |
| 75 | <i>Lotharella oceanica</i> sp. nov. â€“ a new planktonic chlorarachniophyte studied by light and electron microscopy. Phycologia, 2009, 48, 315-323. | 0.6 | 19 |
| 76 | Heme pathway evolution in kinetoplastid protists. BMC Evolutionary Biology, 2016, 16, 109. | 3.2 | 19 |
| 77 | Plastid Evolution: Remnant Algal Genes in Ciliates. Current Biology, 2008, 18, R663-R665. | 1.8 | 18 |
| 78 | The past, present and future of the tree of life. Current Biology, 2021, 31, R314-R321. | 1.8 | 18 |
| 79 | Genomic analysis finds no evidence of canonical eukaryotic DNA processing complexes in a free-living protist. Nature Communications, 2021, 12, 6003. | 5.8 | 17 |
| 80 | NUCLEOMORPH KARYOTYPE DIVERSITY IN THE FRESHWATER CRYPTOPHYTE GENUS <i>CRYPTOMONAS</i><sup>1</sup>. Journal of Phycology, 2008, 44, 11-14. | 1.0 | 15 |
| 81 | Algal Genomics: Exploring the Imprint of Endosymbiosis. Current Biology, 2006, 16, R1033-R1035. | 1.8 | 14 |
| 82 | Diversity and Evolution of <i>Paramoeba</i> spp. and their Kinetoplastid Endosymbionts. Journal of Eukaryotic Microbiology, 2017, 64, 598-607. | 0.8 | 14 |
| 83 | The Carboxy Terminus of YCF1 Contains a Motif Conserved throughout >500 Myr of Streptophyte Evolution. Genome Biology and Evolution, 2017, 9, 473-479. | 1.1 | 14 |
| 84 | Overexpression of Molecular Chaperone Genes in Nucleomorph Genomes. Molecular Biology and Evolution, 2014, 31, 1437-1443. | 3.5 | 12 |
| 85 | Submergence of the filamentous Zygnematophyceae Mougeotia induces differential gene expression patterns associated with core metabolism and photosynthesis. Protoplasma, 2022, 259, 1157-1174. | 1.0 | 12 |
| 86 | Green Evolution, Green Revolution. Science, 2009, 324, 191-192. | 6.0 | 11 |
| 87 | Evolution: Plumbing the Depths of Diplonemid Diversity. Current Biology, 2016, 26, R1290-R1292. | 1.8 | 11 |
| 88 | Mitochondrial Genome Evolution in Pelagophyte Algae. Genome Biology and Evolution, 2021, 13, . | 1.1 | 10 |
| 89 | Gene transfer in complex cells. Nature, 2015, 524, 423-424. | 13.7 | 9 |
| 90 | Ubiquitin fusion proteins in algae: implications for cell biology and the spread of photosynthesis. BMC Genomics, 2019, 20, 38. | 1.2 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | The origin and spread of eukaryotic photosynthesis: evolving views in light of genomics. Botanica Marina, 2009, 52, 95-103. | 0.6 | 8 |
| 92 | Relative Mutation Rates in Nucleomorph-Bearing Algae. Genome Biology and Evolution, 2019, 11, 1045-1053. | 1.1 | 8 |
| 93 | Comparative Plastid Genomics of Non-Photosynthetic Chrysophytes: Genome Reduction and Compaction. Frontiers in Plant Science, 2020, 11, 572703. | 1.7 | 8 |
| 94 | Nucleomorph Comparative Genomics. , 2014, , 197-213. | | 8 |
| 95 | Genome complexity in a lean, mean photosynthetic machine. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11433-11434. | 3.3 | 7 |
| 96 | RNA-Seq analysis reveals potential regulators of programmed cell death and leaf remodelling in lace plant (Aponogeton madagascariensis). BMC Plant Biology, 2021, 21, 375. | 1.6 | 5 |
| 97 | Cryptomonads. Current Biology, 2020, 30, R1114-R1116. | 1.8 | 4 |
| 98 | Comparative analyses of saprotrophy in Salisapilia sapeloensis and diverse plant pathogenic oomycetes reveal lifestyle-specific gene expression. FEMS Microbiology Ecology, 2020, 96, . | 1.3 | 4 |
| 99 | Evolutionary Biology: Viral Rhodopsins Illuminate Algal Evolution. Current Biology, 2020, 30, R1469-R1471. | 1.8 | 4 |
| 100 | Evolutionary Dynamics and Lateral Gene Transfer in Raphidophyceae Plastid Genomes. Frontiers in Plant Science, 2022, 13, . | 1.7 | 3 |
| 101 | Evolution: Protein Import in a Nascent Photosynthetic Organelle. Current Biology, 2017, 27, R1004-R1006. | 1.8 | 2 |
| 102 | Genomics reveals alga-associated cyanobacteria hiding in plain sight. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15757-15759. | 3.3 | 2 |
| 103 | Evolution: New Protist Predators under the Sun. Current Biology, 2019, 29, R936-R938. | 1.8 | 2 |
| 104 | Nucleomorph Small RNAs in Cryptophyte and Chlorarachniophyte Algae. Genome Biology and Evolution, 2019, 11, 1117-1134. | 1.1 | 1 |
| 105 | Phagotrophy in chlorarachniophyte algae: implications for eukaryotic genome evolution. Journal of Eukaryotic Microbiology, 2005, 52, 7S-27S. | 0.8 | 0 |
| 106 | Phagocytosis in a Shape-shifting Bacterium. Trends in Microbiology, 2020, 28, 428-430. | 3.5 | 0 |
| 107 | TreeTuner: A pipeline for minimizing redundancy and complexity in large phylogenetic datasets. STAR Protocols, 2022, 3, 101175. | 0.5 | 0 |