# Marek Elias

List of Publications by Year
in descending order

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Version: 2024-02-01

| 86 | 9,007 | 101543 | 54911 |
|---|---|---|---|
| papers | citations | 36 h-index | 84 g-index |

| 97 | 97 | 97 | 10580 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Chlamydomonas Genome Reveals the Evolution of Key Animal and Plant Functions. Science, 2007, 318, 245-250. | 12.6 | 2,354 |
| 2 | The Selaginella Genome Identifies Genetic Changes Associated with the Evolution of Vascular Plants. Science, 2011, 332, 960-963. | 12.6 | 794 |
| 3 | The Ectocarpus genome and the independent evolution of multicellularity in brown algae. Nature, 2010, 465, 617-621. | 27.8 | 774 |
| 4 | Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. Nature, 2012, 492, 59-65. | 27.8 | 377 |
| 5 | Genomic Analysis of the Basal Lineage Fungus Rhizopus oryzae Reveals a Whole-Genome Duplication. PLoS Genetics, 2009, 5, e1000549. | 3.5 | 332 |
| 6 | Genome structure and metabolic features in the red seaweed Chondrus crispus shed light on evolution of the Archaeplastida. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5247-5252. | 7.1 | 307 |
| 7 | A Eukaryote without a Mitochondrial Organelle. Current Biology, 2016, 26, 1274-1284. | 3.9 | 302 |
| 8 | Sex is a ubiquitous, ancient, and inherent attribute of eukaryotic life. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8827-8834. | 7.1 | 236 |
| 9 | AtEXO70A1, a member of a family of putative exocyst subunits specifically expanded in land plants, is important for polar growth and plant development. Plant Journal, 2006, 48, 54-72. | 5.7 | 234 |
| 10 | Nomenclature for the human Arf family of GTP-binding proteins: ARF, ARL, and SAR proteins. Journal of Cell Biology, 2006, 172, 645-650. | 5.2 | 232 |
| 11 | Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. Current Biology, 2016, 26, 1577-1584. | 3.9 | 175 |
| 12 | Phosphatidic acid produced by phospholipaseÂD is required for tobacco pollen tube growth. Planta, 2003, 217, 122-130. | 3.2 | 168 |
| 13 | Bacterial proteins pinpoint a single eukaryotic root. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E693-9. | 7.1 | 159 |
| 14 | Comparative genomics of the social amoebae Dictyostelium discoideum and Dictyostelium purpureum. Genome Biology, 2011, 12, R20. | 9.6 | 141 |
| 15 | Sculpting the endomembrane system in deep time: High resolution phylogenetics of Rab GTPases. Journal of Cell Science, 2012, 125, 2500-8. | 2.0 | 139 |
| 16 | Updating algal evolutionary relationships through plastid genome sequencing: did alveolate plastids emerge through endosymbiosis of an ochrophyte?. Scientific Reports, 2015, 5, 10134. | 3.3 | 102 |
| 17 | Extreme genome diversity in the hyper-prevalent parasitic eukaryote Blastocystis. PLoS Biology, 2017, 15, e2003769. | 5.6 | 99 |
| 18 | Molecular diversity of phospholipase D in angiosperms. BMC Genomics, 2002, 3, 2. | 2.8 | 97 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | An Unprecedented Non-canonical Nuclear Genetic Code with All Three Termination Codons Reassigned as Sense Codons. Current Biology, 2016, 26, 2364-2369. | 3.9 | 92 |
| 20 | A Broad Phylogenetic Survey Unveils the Diversity and Evolution of Telomeres in Eukaryotes. Genome Biology and Evolution, 2013, 5, 468-483. | 2.5 | 89 |
| 21 | Genome of Leptomonas pyrrhocoris: a high-quality reference for monoxenous trypanosomatids and new insights into evolution of Leishmania. Scientific Reports, 2016, 6, 23704. | 3.3 | 74 |
| 22 | An ancestral bacterial division system is widespread in eukaryotic mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10239-10246. | 7.1 | 70 |
| 23 | Metabolic quirks and the colourful history of the Euglena gracilis secondary plastid. New Phytologist, 2020, 225, 1578-1592. | 7.3 | 65 |
| 24 | Xylochloris irregularis gen. et sp. nov. (Trebouxiophyceae, Chlorophyta), a novel subaerial coccoid green alga. Phycologia, 2011, 50, 57-66. | 1.4 | 57 |
| 25 | A gene transfer event suggests a long-term partnership between eustigmatophyte algae and a novel lineage of endosymbiotic bacteria. ISME Journal, 2018, 12, 2163-2175. | 9.8 | 57 |
| 26 | Returning to the Fold for Lessons in Mitochondrial Crista Diversity and Evolution. Current Biology, 2020, 30, R575-R588. | 3.9 | 53 |
| 27 | Kalinella bambusicola gen. et sp. nov. (Trebouxiophyceae, Chlorophyta), a novel coccoid Chlorellaâ€like subaerial alga from Southeast Asia. Phycological Research, 2009, 57, 159-169. | 1.6 | 51 |
| 28 | PhyloFisher: A phylogenomic package for resolving eukaryotic relationships. PLoS Biology, 2021, 19, e3001365. | 5.6 | 51 |
| 29 | Dynamic Evolution of Telomeric Sequences in the Green Algal Order Chlamydomonadales. Genome Biology and Evolution, 2012, 4, 248-264. | 2.5 | 50 |
| 30 | The Oxymonad Genome Displays Canonical Eukaryotic Complexity in the Absence of a Mitochondrion. Molecular Biology and Evolution, 2019, 36, 2292-2312. | 8.9 | 49 |
| 31 | ZOOSPOROGENESIS, MORPHOLOGY, ULTRASTRUCTURE, PIGMENT COMPOSITION, AND PHYLOGENETIC POSITION OF TRACHYDISCUS MINUTUS (EUSTIGMATOPHYCEAE, HETEROKONTOPHYTA)<sup>1</sup>. Journal of Phycology, 2012, 48, 231-242. | 2.3 | 45 |
| 32 | Hylodesmus singaporensis gen. et sp. nov., a new autosporic subaerial green alga (Scenedesmaceae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 2010, 60, 1224-1235. | 1.7 | 43 |
| 33 | The draft nuclear genome sequence and predicted mitochondrial proteome of Andalucia godoyi, a protist with the most gene-rich and bacteria-like mitochondrial genome. BMC Biology, 2020, 18, 22. | 3.8 | 43 |
| 34 | Was the Mitochondrion Necessary to Start Eukaryogenesis?. Trends in Microbiology, 2019, 27, 96-104. | 7.7 | 42 |
| 35 | JENUFA GEN. NOV.: A NEW GENUS OF COCCOID GREEN ALGAE (CHLOROPHYCEAE, INCERTAE SEDIS) PREVIOUSLY RECORDED BY ENVIRONMENTAL SEQUENCING1. Journal of Phycology, 2011, 47, 928-938. | 2.3 | 41 |
| 36 | The Ras related GTPase Miro is not required for mitochondrial transport in Dictyostelium discoideum. European Journal of Cell Biology, 2011, 90, 342-355. | 3.6 | 41 |

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|---|---|---|---|
| 37 | The diversity and phylogeny of the commercially important algal class Eustigmatophyceae, including the new clade Goniochloridales. Journal of Applied Phycology, 2014, 26, 1773-1782. | 2.8 | 41 |
| 38 | Sizing up the genomic footprint of endosymbiosis. BioEssays, 2009, 31, 1273-1279. | 2.5 | 40 |
| 39 | Ancient Complexity, Opisthokont Plasticity, and Discovery of the 11th Subfamily of Arf <scp>GAP</scp> Proteins. Traffic, 2013, 14, 636-649. | 2.7 | 36 |
| 40 | The demise of the genus Scotiellopsis Vinatzer (Chlorophyta). Nova Hedwigia, 2013, 97, 415-428. | 0.4 | 35 |
| 41 | The plastid genome of some eustigmatophyte algae harbours a bacteria-derived six-gene cluster for biosynthesis of a novel secondary metabolite. Open Biology, 2016, 6, 160249. | 3.6 | 35 |
| 42 | Peculiar features of the plastids of the colourless alga Euglena longa and photosynthetic euglenophytes unveiled by transcriptome analyses. Scientific Reports, 2018, 8, 17012. | 3.3 | 35 |
| 43 | Rho GTPases: Deciphering the Evolutionary History of a Complex Protein Family. Methods in Molecular Biology, 2012, 827, 13-34. | 0.9 | 34 |
| 44 | A Comparative Analysis of Mitochondrial Genomes in Eustigmatophyte Algae. Genome Biology and Evolution, 2016, 8, 705-722. | 2.5 | 33 |
| 45 | Highly Dynamic Exon Shuffling in Candidate Pathogen Receptors ... What if Brown Algae Were Capable of Adaptive Immunity?. Molecular Biology and Evolution, 2012, 29, 1263-1276. | 8.9 | 31 |
| 46 | RuBisCO in Non-Photosynthetic Alga Euglena longa: Divergent Features, Transcriptomic Analysis and Regulation of Complex Formation. PLoS ONE, 2016, 11, e0158790. | 2.5 | 31 |
| 47 | Patterns and processes in the evolution of the eukaryotic endomembrane system. Molecular Membrane Biology, 2010, 27, 469-489. | 2.0 | 30 |
| 48 | The RJL family of small GTPases is an ancient eukaryotic invention probably functionally associated with the flagellar apparatus. Gene, 2009, 442, 63-72. | 2.2 | 29 |
| 49 | Dissecting a Hidden Gene Duplication: The Arabidopsis thaliana SEC10 Locus. PLoS ONE, 2014, 9, e94077. | 2.5 | 29 |
| 50 | Plastid Genomes and Proteins Illuminate the Evolution of Eustigmatophyte Algae and Their Bacterial Endosymbionts. Genome Biology and Evolution, 2019, 11, 362-379. | 2.5 | 29 |
| 51 | A Specific Feature of the Angiosperm Rab Escort Protein (REP) and Evolution of the REP/GDI Superfamily. Journal of Molecular Biology, 2005, 348, 1299-1313. | 4.2 | 27 |
| 52 | The RAB Family GTPase Rab1A from Plasmodium falciparum Defines a Unique Paralog Shared by Chromalveolates and Rhizaria. Journal of Eukaryotic Microbiology, 2009, 56, 348-356. | 1.7 | 25 |
| 53 | Nuclear genetic codes with a different meaning of the UAG and the UAA codon. BMC Biology, 2017, 15, 8. | 3.8 | 25 |
| 54 | A small portion of plastid transcripts is polyadenylated in the flagellate Euglena gracilis. FEBS Letters, 2014, 588, 783-788. | 2.8 | 23 |

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|---|---|---|---|
| 55 | A paneukaryotic genomic analysis of the small GTPase RABL2 underscores the significance of recurrent gene loss in eukaryote evolution. Biology Direct, 2016, 11, 5. | 4.6 | 22 |
| 56 | Elliptochloris bilobata var. corticola var. nov. (Trebouxiophyceae, Chlorophyta), a novel subaerial coccal green alga. Biologia (Poland), 2008, 63, 791-798. | 1.5 | 21 |
| 57 | Eustigmatophyceae. , 2017, , 367-406. | | 19 |
| 58 | Analysis of diverse eukaryotes suggests the existence of an ancestral mitochondrial apparatus derived from the bacterial type II secretion system. Nature Communications, 2021, 12, 2947. | 12.8 | 19 |
| 59 | The Ectocarpus Genome and Brown Algal Genomics. Advances in Botanical Research, 2012, 64, 141-184. | 1.1 | 18 |
| 60 | Genomics and transcriptomics yields a system-level view of the biology of the pathogen Naegleria fowleri. BMC Biology, 2021, 19, 142. | 3.8 | 18 |
| 61 | A Eukaryote-Wide Perspective on the Diversity and Evolution of the ARF GTPase Protein Family. Genome Biology and Evolution, 2021, 13, . | 2.5 | 18 |
| 62 | Pseudomarvania, gen. nov. (Chlorophyta, Trebouxiophyceae), a new genus for "budding" subaerial green algae Marvania aerophytica NEUSTUPA et ÅEJNOHOVÁ•and Stichococcus ampulliformis HANDA.. Fottea, 2009, 9, 169-177. | 0.9 | 18 |
| 63 | Evolution and Unprecedented Variants of the Mitochondrial Genetic Code in a Lineage of Green Algae. Genome Biology and Evolution, 2019, 11, 2992-3007. | 2.5 | 17 |
| 64 | The Guanine Nucleotide Exchange Factors Sec2 and PRONE: Candidate Synapomorphies for the Opisthokonta and the Archaeplastida. Molecular Biology and Evolution, 2008, 25, 1526-1529. | 8.9 | 16 |
| 65 | Toward Modern Classification of Eustigmatophytes, Including the Description of Neomonodaceae Fam. Nov. and Three New Genera<sup>1</sup>. Journal of Phycology, 2020, 56, 630-648. | 2.3 | 16 |
| 66 | Contrasting patterns in the evolution of the Rab GTPase family in Archaeplastida. Acta Societatis Botanicorum Poloniae, 2014, 83, 303-315. | 0.8 | 15 |
| 67 | Chloropyrula uraliensis gen. et sp. nov. (<scp>T</scp>rebouxiophyceae, Chlorophyta), a new green coccoid alga with a unique ultrastructure, isolated from soil in South Urals. Journal of Systematics and Evolution, 2013, 51, 476-484. | 3.1 | 14 |
| 68 | The Mastigamoeba balamuthi Genome and the Nature of the Free-Living Ancestor of Entamoeba. Molecular Biology and Evolution, 2021, 38, 2240-2259. | 8.9 | 14 |
| 69 | The Cryptic Plastid of Euglena longa Defines a New Type of Nonphotosynthetic Plastid Organelle. MSphere, 2020, 5, . | 2.9 | 14 |
| 70 | Expansion and transformation of the minor spliceosomal system in the slime mold Physarum polycephalum. Current Biology, 2021, 31, 3125-3131.e4. | 3.9 | 13 |
| 71 | A Large Number of Nuclear Genes in the Human Parasite Blastocystis Require mRNA Polyadenylation to Create Functional Termination Codons. Genome Biology and Evolution, 2014, 6, 1956-1961. | 2.5 | 11 |
| 72 | Olisthodiscus represents a new class of Ochrophyta. Journal of Phycology, 2021, 57, 1094-1118. | 2.3 | 10 |

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|---|---|---|---|
| 73 | Phylogenetic profiling and cellular analyses of ARL16 reveal roles in traffic of IFT140 and INPP5E. Molecular Biology of the Cell, 2022, 33, mbcE21100509T. | 2.1 | 10 |
| 74 | A case of taxonomic inflation in coccoid algae: Ellipsoidion parvum and Neocystis vischeri are conspecific with Neocystis (=Nephrodiella) brevis (Chlorophyta,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (Tr | 0.3 | 6 |
| 75 | Extensive molecular tinkering in the evolution of the membrane attachment mode of the Rheb GTPase. Scientific Reports, 2018, 8, 5239. | 3.3 | 9 |
| 76 | Characiopsis BorzÃ¬ belongs to the Eustigmatophyceae. European Journal of Phycology, 2021, 56, 186-202. | 2.0 | 8 |
| 77 | Vestiges of the Bacterial Signal Recognition Particle-Based Protein Targeting in Mitochondria. Molecular Biology and Evolution, 2021, 38, 3170-3187. | 8.9 | 8 |
| 78 | Monodopsis and Vischeria Genomes Shed New Light on the Biology of Eustigmatophyte Algae. Genome Biology and Evolution, 2021, 13, . | 2.5 | 8 |
| 79 | cpRAS: a novel circularly permuted RAS-like GTPase domain with a highly scattered phylogenetic distribution. Biology Direct, 2008, 3, 21. | 4.6 | 7 |
| 80 | A new lineage of non-photosynthetic green algae with extreme organellar genomes. BMC Biology, 2022, 20, 66. | 3.8 | 7 |
| 81 | Protist diversity: Novel groups enrich the algal tree of life. Current Biology, 2021, 31, R733-R735. | 3.9 | 6 |
| 82 | Settling the identity and phylogenetic position of the psychrotolerant green algal genus Coleochlamys (Trebouxiophyceae). Phycologia, 2021, 60, 135-147. | 1.4 | 5 |
| 83 | Eustigmatophyceae. , 2016, , 1-39. | | 5 |
| 84 | When you Like Other Algae: Adglutina synurophila gen. et sp. nov. (Moewusinia, Chlorophyceae), a Clingy Green Microalga Associated with Synura Colonies. Protist, 2022, 173, 125858. | 1.5 | 3 |
| 85 | Evidence for an Independent Hydrogenosome-to-Mitosome Transition in the CL3 Lineage of Fornicates. Frontiers in Microbiology, 2022, 13, . | 3.5 | 3 |
| 86 | Evolution of the genetic code in the mitochondria of Labyrinthulea (Stramenopiles). Molecular Phylogenetics and Evolution, 2020, 152, 106908. | 2.7 | 2 |