JOHN M. ARCHIBALD — Curriculum vitae June 2025

Department of Biochemistry & Molecular Biology
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http://archibaldlab.ca

ACADEMIC POSITIONS

Director	Institute for Comparative Genomics (October 2017- present)
Arthur B. McDonald Chair	Dalhousie University (January 2021-December 2027)
Distinguished Research Professor	Dalhousie University (July 2016-June 2021)
Visiting By-Fellow	Churchill College, U. Cambridge, UK (July – Dec. 2012)
Cross-appointed Professor	Department of Microbiology & Immunology, Dalhousie University (05/2022-present)
Professor	Department of Biochemistry & Molecular Biology, Dalhousie University (07/2012-present)
Associate Professor	Department of Biochemistry & Molecular Biology, Dalhousie University (07/2008-06/2012)
Assistant Professor	Department of Biochemistry & Molecular Biology, Dalhousie University (09/2003-06/2008)
Graduate Coordinator	Department of Biochemistry & Molecular Biology, Dalhousie University (2010-2015)
Associate Graduate Coordinator	Department of Biochemistry & Molecular Biology, Dalhousie University (2006-2010)
Editorial Board Member	*Current Biology* (2012-present) *BMC Biology* (2009-present) *Environmental Microbiology* (2014-15, 2020-present) *Eukaryotic Cell* (now mSphere) (2013-2016)
Associate Editor	Genome Biology & Evolution (2010-present) Molecular Phylogenetics & Evolution (2010-2011) Journal of Phycology (2009-2010) Phycological Research (2007-2010)
RESEARCH AREAS	Genome biology and evolution, symbiosis, microbial diversity, phytoplankton, protistology, lateral gene transfer
EDUCATION	Killam and CIHR Postdoctoral fellow, Department of Botany University of British Columbia, 2001-2003
	Ph.D., Biochem. & Mol. Biol. Dalhousie University, May 2001
	B.Sc. (1st class Hon), Biology, Dalhousie University, April 1997
PERSONAL	Birth Date: 29 August 1971. Canadian Citizen.

SCHOLARSHIPS, FELLOWSHIPS, AWARDS AND DISTINCTIONS

2024 **Canadian Science Publishing Senior Investigator Award**, Canadian Society for Molecular Biosciences ("The award recognizes Canadian scientists who have demonstrated inclusive excellence across a breadth of activities including research, teaching and mentorship, leadership and outreach")

2023 **Mentorship of Faculty Award**, Faculty of Medicine, Dalhousie University

2022 **Elected Fellow**, Royal Society of Canada (lifetime appointment)

2021 **Legacy Award**, Dalhousie University (in recognition of innovative and impactful research)

2021-2027 **Arthur B. McDonald Chair of Research Excellence** ($50,000/year), Dalhousie University

2020 **Academic Leadership Certificate**, Dalhousie University

2020 **Max Forman Senior Research Prize** ($10,000), Dalhousie Medical Research Foundation, Dalhousie University

2019 **Miescher-Ishida Prize**, International Society of Endocytobiology and the University of Tübingen ("To acknowledge outstanding scientists who have made unique findings in the field of endocytobiology or contributed to the development of this science")

2016-2023 **Elected Member**, Royal Society of Canada, College of New Scholars, Artists, and Scientists

2016-2021 **University Research Professorship**, Dalhousie University ($1,000 annually)

2015-2016 **Vice President**, International Society of Protistologists

2015 **Elected Fellow**, American Academy of Microbiology (American Society for Microbiology)

2014 **Seymour H. Hutner Young Investigator Prize** ($1,000), International Society of Protistologists ("Awarded annually to an outstanding scientist in the field of protozoology who is recognized on an international level")

2012 **Visiting By-Fellow**, Churchill College, University of Cambridge (July-December 2012)

2012-2017 **Senior Fellow,** Canadian Institute for Advanced Research (Integrated Microbial Biodiversity)

2007-2011 **Fellow**, Canadian Institute for Advanced Research (Integrated Microbial Biodiversity)

2008 **Award of Excellence in Basic Research** ($7,000), Dalhousie Medical Research Foundation, Dalhousie University

2008-2013 **New Investigator Award**, Canadian Institutes of Health Research (5-yr salary award)

2004 **New Investigator Award** ($50,000), Dalhousie Medical Research Foundation

2003-2007 **Scholar**, Canadian Institute for Advanced Research, Program in Evolutionary Biology

2003-2006 **Investigator**, Genome Canada / Genome Atlantic (external salary support 2003-06)

2001-2003 **Killam Postdoctoral Fellow**, University of British Columbia

RESEARCH GRANTS AND SUPPORT Total grant capture: ~$5 million CDN (not including team grants)

2025-2029 **NSERC Discovery Grant**—"*Gene biology and evolution of microbial eukaryotes*" ~$44,000/yr for 5 years
PI—J. M. ARCHIBALD

2024-2027 **NSERC PromoScience Grant**—"*MicroScape Program*" ~$50,000/year for 3 years
PI—J. M. ARCHIBALD (Collaborators: Discovery Centre and ICG members)

2023-2026 **Gordon and Betty Moore Foundation**—"*Symbiosis Methods Development*" $1,856,417 USD ($2,480,250 CDN) over 3 years
PI—J. M. ARCHIBALD (Co-investigators: A. Roger, G. Hesketh, E. Bertrand, and A Simpson, Dalhousie; J. Collier and J. Rest, Stoney Brook; J. Jerlström-Hultqvist, Uppsala)

2023-2024 **Ocean Frontier Institute, seed funding**—"*Towards a quantitative metabarcoding approach for eDNA-based environmental assessment of whole ecosystems"* $30,000 CDN Co-applicant with Julie LaRoche (PI) and Morgan Langille

2023-2027 **CFI-John R. Evans Leaders Fund**— *"Nanopore genomics for microbiome discovery research"* $506,348 CDN
PI—J. M. ARCHIBALD

2021-2022 **Gordon and Betty Moore Foundation and the Wellcome-Sanger Institute (Aquatic Symbiosis Genomics Initiative)**—*"Evolution of new symbioses in single-celled eukaryotes"* $12,500 USD PI—J. M. ARCHIBALD

2020-2021 **Genome Atlantic COVID-19 Regional Genomics Initiative**—"*Massive high throughput COVID-19 testing using next generation sequencing (NGS): addressing the urgent need for widescale testing capacity within communities"* ~$178,750
Co-applicant with Nikhil Thomas (PI) and Morgan Langille

2020-2024 **Gordon and Betty Moore Foundation**—"*Symbiosis Model Systems—Genetics and genomics of amoebae*" ~$652,569 CDN over 3.5 years PI—J. M. ARCHIBALD

2019-2024 **NSERC Discovery Grant**—"*Gene transfer in microbial eukaryotes*" ~$69,000/yr for 5 years
PI—J. M. ARCHIBALD

2019-2022 **Genome Canada Emerging Issues and Opportunities Grant**—"*Lyme Disease in NS: The influence of strain variation on disease*". $863,000 over 2 years (~86,000 to Archibald lab)
Co-applicant with Todd Hatchette (PI), Nicholas Ogden, Robbin Lindsay, Jason Leblanc, Shelly McNeil, Ian Davis, Peter Green, Volodko Bakowsky, and Antonia Dibernardo

2017-2019 **Gordon and Betty Moore Foundation**—"*Laboratory systems for studying gene transfer in eukaryotes*" $368,375 CDN over 2.5 years PI—J. M. ARCHIBALD

2014-2019 **NSERC Discovery Grant**—"*Endosymbiosis and genome evolution in eukaryotic microbes*" $85,000 / year for 5 years PI—J. M. ARCHIBALD

2012-2017 **Canadian Institute for Advanced Research**—*"Integrated Microbial Biodiversity Program"* ~$24,000 / year for 5 years PI—J. M. ARCHIBALD

2011-2016 **CIHR Operating Grant**—*"Endosymbiosis, parasitism, and genome evolution"* ~$115,000 / year for 5 years PI—J. M. ARCHIBALD

2007-2016 **Tula Foundation / Dalhousie Centre for Comparative Genomics & Evolutionary Bioinformatics (CGEB)**—equivalent of one postdoctoral fellow salary ($44,000/year) for 5 years plus research allowance ($20,000/year)
Co-applicant with A. J. Roger, PI

2013 **NSERC Equipment Grant – Research Tools and Instruments**—"*An in-house high-throughput DNA sequencing instrument*": $147,455
Co-applicant with C. Slamovits (PI), A. J. Roger and A. G. B. Simpson

2011 **CIHR & NS/CIHR Regional Partnership Program Operating Grant**—*"Endosymbiosis, parasitism, and genome evolution*": $37,824 over 3 months PI—J. M. ARCHIBALD

2009-2014 **NSERC Discovery Grant** (#283335-09)—"*Genome and proteome evolution in nucleomorph-containing algae*": $34,000/year for 5 years
PI—J. M. ARCHIBALD

2008-2011 **CIHR & NS/CIHR Regional Partnership Program Operating Grant—***"The causes and consequences of genome reduction in eukaryotes*": $100,000 year 1, $76,615 years 2/3
PI—J. M. ARCHIBALD

2008-2010 **NSERC Special Research Opportunities Program Grant—***"Impact of secondary endosymbiosis on eukaryotic genome evolution*": $113,050 year 1, $106,050 year 2
PI—J. M. ARCHIBALD, Co-applicant M. Gray

2007-2008 **CIHR Operating Grant** (MOP-8156)—"*The causes and consequences of genome reduction in eukaryotes*": $100,000 for 1 year PI—J. M. ARCHIBALD

2007-2012 **Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity**—annual funds in support of research: $25,000/year for 5 years
PI—J. M. ARCHIBALD (CIFAR Scholar (2007/8) and Fellow (2009-12))

2007 **NSERC Equipment Grant – Research Tools and Instruments**—"*An Xserve computer cluster for phylogenetic and comparative genomic analyses*": $55,591
Co-applicant with A. J. Roger, PI

2006-2010 **US Department of Energy Joint Genome Institute (JGI) Community Sequencing Program (CSP_LOI_19044)—**"*Impact of Secondary Endosymbiosis on Genome Evolution and Cell Biology: A Cryptomonad and a Chlorarachniophyte Nuclear Genome":* $980,000 US in-kind
PI—J. M. ARCHIBALD

2006-2007 **Canada Foundation for Innovation (CFI) Institutional Infrastructure Operating Fund (IOF)—**"*Laboratory for microbial genome analysis*": $37,442 PI—J. M. ARCHIBALD

2006-2007 **CIHR Operating Grant** (IG-81648)—"*The causes and consequences of genome reduction in eukaryotes*": $100,000 for 1 year PI—J. M. ARCHIBALD

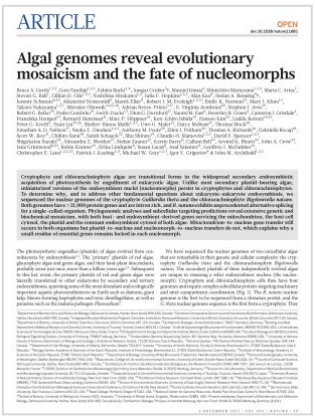
2004-2008 **NSERC Discovery Grant** (#283335-04)—"*Genome reduction in eukaryotes*": $36,390/year for 5 years PI—J. M. ARCHIBALD

2003-2006 **Genome Atlantic – Genome Canada Large-Scale Project**—"*A comprehensive understanding of prokaryotic genome evolution and diversity: from genomics to metagenomics*": ~$10,500,000 over 4 years
PI—W. F. Doolittle and 5 others

2003-2004 **CFI New Opportunities Fund**—"*Laboratory for microbial genome analysis*": $312,020
PI—J. M. ARCHIBALD

MOST SIGNIFICANT CONTRIBUTIONS TO SCIENCE

I—Curtis, B. A., [71 authors] & **Archibald, J. M**. 2012. Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. ***Nature***. 492, 59-65. *Role: PI, supervisor, project coordinator and senior author.* **443 CITATIONS**

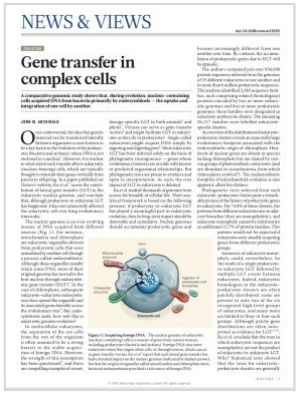

ARTICLE

Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs

I led a five-year international project to sequence the genomes of two important phytoplankton species, **coordinating the research of >70 scientists at 15 institutions**. The project was supported by an in-kind contribution of ~$1 Million US from the DOE-Joint Genome Institute and an NSERC Special Research Opportunities Grant. The research generated numerous publications, including an Article and accompanying 'News & Views' in *Nature*. These genome sequences represent **a significant community resource** and are widely used by biologists for both basic and applied research.

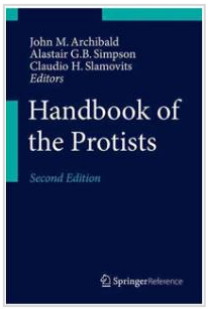
II—Genome biology and evolution in eukaryotes

Throughout my career I have made substantial contributions to our understanding of the evolution of eukaryotic cells and their genomes. As a junior scientist I was lead author on the first comprehensive demonstration that lateral gene transfer (LGT)—the exchange of DNA across species bounds—occurs in eukaryotes (Archibald et al. 2003. ***PNAS***; **306 CITATIONS**), and my research team has published numerous high-impact publications on this topic since (e.g., Khan et al. 2007. ***Mol. Biol. Evol.***; **124 CITATIONS**). I am regularly asked to contribute commentaries, review articles, hypothesis papers, and book reviews on the topic, and have done so for top-tier journals including *Nature*, *Science*, *PNAS* and *Current Biology*. We have published dozens of 'omics-enabled papers on diverse topics such as early land plant evolution (de Vries et al. 2018 ***PNAS***; **153 CITATIONS**), endosymbiosis-associated genome reduction (Lane et al. 2007 ***PNAS***; **187 CITATIONS**), and the evolution of mobile genetic elements (Gallot-Lavallée et al. 2023. ***PNAS***). We have also used comparative genomics to describe fundamentally new groups of microbes such as the 'rappemonad' algae (Kim et al. 2011. ***PNAS***; **115 CITATIONS**) and 'mirusviruses' (Collier et al. ***Curr. Biol.*** 2023).


NEWS & VIEWS

Gene transfer in complex cells

III—Handbook of the Protists (2nd edition). 2017. **Archibald, J.M.**, Simpson, A.G.B, & Slamovits, C. (Eds.). Springer. 44 chapters, 1657 pages. *Role: Editor-in-Chief.*

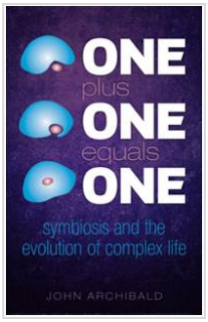


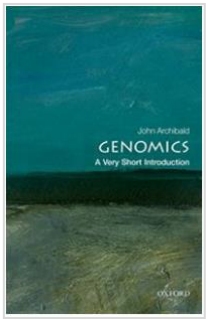
Between 2013 and 2017 I led an international effort to publish a fully revised second edition of Lynn Margulis's classic 1990 text on the diversity of single-celled eukaryotes (protists). This 44-chapter, 2-volume set—published in hardback and online—now serves as the resource for individuals teaching and researching protist biology. **'The Handbook' has been downloaded ~270,000 times since it was published in 2017 and features on 85 Wikipedia pages.**

IV—Popular science writing

Archibald, J. M. 2014. One plus one equals one: symbiosis and the evolution of complex life. *Oxford University Press.* 224 pp. ISBN: 978-0-19-966059-9. (paperback published 2016) **139 CITATIONS**

Archibald, J. M. 2018. Genomics: a very short introduction. *Oxford University Press.* 160 pp. ISBN: 978-0-19-878620-7.





I am committed to the process of communicating science and research to non-specialist audiences. In 2014 I published a popular-press book chronicling how the science of DNA has revolutionized our understanding of the microbial world and the origins of mitochondria and chloroplasts. The paperback has since been published in four different languages. More recently, I wrote a book on genomics for OUP's *Very Short Introduction* series. The book is for the intelligent lay reader, as well as students and professionals wanting a broad overview of the science of genomics and where the field is headed.

PUBLICATIONS **Google Scholar statistics:** ~14,000 career citations (~6,200 since 2020)
h-index = 63 (40 since 2020), i10-index = 153 (109 since 2020); trainees underlined.

IR *Invited and peer-reviewed contribution* **IC** *Invited contribution*

205. Chabi, M., Fermont, L., Leleu, M., Tirtiaux, C., Sibbald, S J., A., **Archibald, J. M.** Lancelon-Pin, C., Putaux, J.-L., Blassiau, C., Castric, V., Richtová, J., Oborník, M., De Ruyck, J., Lensink, M., Deschamps, P., Henrissat, B., Szlydowski, N., Colpaert, M., Gentry, M., Colleoni, C., Cenci, U., Ball, S. A new mechanism for starch polysaccharide crystallization in *Chromera velia*. In preparation. *Role: co-author.*

204. Haro, R., Gallot-Lavallée, L., Harding, T., Simpson, A. G. B., Roger, A. J., & **Archibald, J. M.** Chromosome-scale genome sequence of the halophilic stramenopile *Halocafeteria seosinensis*. In preparation. *Role: Senior author and supervisor.*

203. Haro, R. E., Gallot-Lavallée, L., **Archibald, J. M.**, & Slamovits, C. H. A novel polinton-like virus with a fused DNA polymerase in the dinoflagellate *Oxyrrhis marina* sheds light on viral diversity. ***Proc. Natl. Acad. Sci. USA.*** Submitted. *Role: author and supervisor.*

202. Moog, D., Curtis, B. A., David, V., Filloramo, G. V., Gallot-Lavallée, L., Herman, E., McPhee, M., Nakayama, T., Sibbald, S. J., Dacks, J. B., Field, M. C., Kelly, S., Levine, T. P. & **Archibald, J. M.** Comparative genomics of *Perkinsela* spp. endosymbionts of paramoebae reveals streamlined cell biology and transposable element dynamics. In preparation. *Role: senior author and supervisor.*

201. Gallot-Lavallée, L., Haro, R., Harding, T., Jerlström-Hultqvist, J., Simpson, A. G. B., Roger, A. J., & **Archibald, J. M.** Long-read sequencing sheds light on the origins of endogenous virophage and Polinton-like elements in the halophilic stramenopile *Halocafeteria seosinensis*. In preparation. *Role: Senior author and supervisor.*

200. Chung, D., Matar, S., and **Archibald, J. M.** CRISPR-Cas9 gene editing in the heterotrophic protist *Acanthamoeba castellanii*. In preparation. *Role: senior author and supervisor.*

199. Schoenle, A., Francis, O., **Archibald, J. M.,** Leger, M., Irisarri, I., Strassert, J. F. H., Florent, I., Yurchenko, V., Hehenberger, E., Massana, R., Burki, F., Lukeš, J., Worden, A. Z., Nitsche, F., Lara, E., de Vries, J., Eme, L., Dumack, K., Mathur, V., Hoffmeyer, T., Hall, N., del Campo, J., & Waldvogel, A.-M. 2025. Protist genomics: key to understanding eukaryotic evolution. ***Trends Genet.*** In press. *Role: co-author.*

198. Colp, M. J. & **Archibald, J. M.** 2025. Complex and variable ploidy in *Acanthamoeba castellanii*. ***Genome Biol. Evol.*** Under review. *Role: Senior author and supervisor.*

197. Tashyreva, D., Drahomíra, F., Stříbrná, E., Prokopchuk, G., Horák, A., Lukeš, J., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2025. The genome sequences of the diplonemid protist *Flectonema* sp. DT1601 and its bacterial endosymbiont *Ca.* Syngnamydia salmonis). ***Wellcome Open Res.*** 10:233. *Role: Project coordinator and co-author.*

196. Chung, D., Brask, N., Matar, S., Gallot-Lavallée, L., Pringle, E. Duguay, B., Blais, C., Slamovits, C. H., Leyland, B., Rest, J. S., Collier, J. L., McCormick, C., & **Archibald, J. M.** 2025. Persistent mirusvirus infection in the marine protist *Aurantiochytrium*. ***Nature Comm.*** Under revision. Research Square preprint: doi: 10.21203/rs.3.rs-5686297/v1. *Role: Senior author and supervisor.*

195. Tashyreva, D., Drahomíra, F., Stříbrná, E., Horák, A., Lukeš, J., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2025. The genome sequences of the diplonemid protist *Diplonema japonicum* yPF1604 and its bacterial endosymbionts *Ca.* Cytomitobacter primus and *Ca*. Nesciobacter abundans. ***Wellcome Open Res.*** 10:193. *Role: Project coordinator and co-author.*

194. Tashyreva, D., Drahomíra, F., Lukeš, J., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2025. The genome sequences of the diplonemid protist *Rhynchopus euleeides* YPF1915 and its bacterial endosymbiont *Ca.* Syngnamydia salmonis. ***Wellcome Open Res.*** Under review. *Role: Project coordinator and co-author.*

193. Sibbald, S. J., Lawton, M., Maclean, C., Roger, A. J., & **Archibald, J. M.** 2025. Pangenome biology and evolution in harmful algal-bloom-forming pelagophytes. ***Curr. Biol.*** Under revision. Biorxv pre-print doi: 10.1101/2024.10.30.620910*. Role: senior author and supervisor.*

192. Sganzerla-Martinez, G., Kumar, A., Kiganda-Lusamaki, E., Dutt, M., Wawina Bokalanga, T., Toloue, A. Mawete Francisca, M., Makangara-Cigolo, J. C., Kelvin, P., Adrienne, A. A., Richardson, C. D., Lokilo, E., Luakanda, G., Ayouba, A., Rimoin, A. W., Mukadi-Bamuleka, D., Delaporte, E., Pilarowski, G., Kindrachuk, J., Liesenborghs, L., Hensley, L. E., Subissi, L., Peeters, M., Hoff, N. A., Tshiani-Mbaya, O. Tessema, S., Muyembe Tamfum, J.-J., Ahuka-Mundeke, S., Kelvin, A.A, **Archibald, J. M.**, Mbala-Kingebeni, P., Flores-Giron, L., & Kelvin, D.J. 2025. Monkypox virus pangenomics reveals determinants of clade Ib. Submitted. medRxiv pre-print doi: 10.1101/2024.10.31.24315917*. Role: co-author.*

191. Schvarcz, C. R., Stancheva, R., Turk-Kubo, K. A., Wilson, S. T., Zehr, J. P., Edwards, K. F., Steward, G. F., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2025. The genome sequences of the chain-forming marine diatom *Epithemia catenata* (Schvarcz, Stancheva & Steward, 2022) and its nitrogen-fixing cyanobacterial endosymbiont. ***Wellcome Open Res.*** Under review. *Role: Project coordinator and co-author.*

190. Zhang, X., Hu, Y., Cheng, Z. & **Archibald, J. M.** 2025. HSDSnake: A SnakeMake pipeline for comprehensive analysis of highly similar gene duplicates in eukaryotic genomes. ***Bioinformatics*****.** Online-early. *Role: senior author and supervisor.*

189. Zhang, X., Hu, Y., Cheng, Z. & **Archibald, J. M.** 2025. AMRLearn: A machine learning pipeline for characterization of antimicrobial resistance determinants in microbial genomic data. ***STAR Protocols*.** I6 103733. *Role: senior author and supervisor.*

188. Sebe-Pedros, A., Tanay, A., Lawniczak, M. K. N., Arendt, D., Aerts, S., **Archibald, J. M.,** Arnone, M. I., Blaxter, M., Cleves, P., Coelho, S. M., Dias, M., Dunn, C., Elek, A., Frazer, J., Gabaldon, T., Gillis, J., Grau-Bove, X., Guigo, R., Hobert, O., Huerta-Cepas, J., Irimia, M., Klein, A., Lewin, H., Marlow, H., Musser, J., Nagy, L., Najle, S. R., Pachter, L., Paez, S., Papatheodorou, I., Passalacque, M. J., Rajewsky, N., Rhee, S. Y., Richards, T. A., Saunders, L. M., Seuntjens, E., Solana, J., Song, Y., Technau, U., Wang, B., and Biodiversity Cell Atlas meeting participants. 2025. The Biodiversity Cell Atlas: mapping the tree of life at cellular resolution. ***Nature***. Under revision. *Role: author.*

187. Blais, C., Colp, M. J., Sarre, L. A., de Mendoza, A. & **Archibald, J. M.** 2025. Epigenetic silencing and host genome dynamics determine the fate of giant viral endogenizations in *Acanthamoeba*. ***BMC Biol***. In press. Biorxv pre-print doi: 10.1101/2024.10.31.621330. *Role: Senior author and supervisor.*

186. Colp, M. J., Blais, C., Curtis, B. A., & **Archibald, J. M.** 2025. The fate of artificial transgenes in *Acanthamoeba castellanii*. ***BMC Genomics***. 26:368. 21. *Role: Senior author and supervisor.*

185. **Archibald, J. M.** 2025. Eukaryogenesis: Mosaic evolution of eukaryotic carbon metabolism. ***Nature Ecol. Evol.*** 02552-4. IR

184. Richards, T. A., Eme, L., **Archibald, J. M.,** Leonard, G., Coelho, S. M., de Mendoza, A., Dessimoz, C., Dolezal, P., Fritz-Laylin, L. K., Gabaldon, T., Hampl, V., Kops, G. J. P. L., Leger, M. M., Lopez-Garcia, P., McInerney, J. O., Moreira, D., Munoz-Gomez, A., Richter, D. J., Ruiz-Tillo, I., Santoro, A. E., Sebe-Pedros, A., Snel, B., Stairs, C. W., Tromer, E. C., van Hooff, J. J. E., Wickstead, B., Williams, T. A., Roger, A. J., Dacks, J. B., & Wideman, J. G. 2024. Consensus view: reconstructing the last common ancestor of all eukaryotes. ***PLOS Biol.*** 22 (11): e3002917. *Role: co-author.*

183. LaRoche, J. & Archibald, J. M. 2024. Marine microbiology: how to evolve a nitrogen-fixing organelle. ***Curr. Biol.*** 34, R826-R829. *Role: co-author.* IR

182. Schvarcz, C. R., Stancheva, R., Turk-Kubo, K. A., Wilson, S. T., Zehr, J. P., Edwards, K. F., Steward, G. F., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2024. The genome sequences of the marine diatom *Epithemia pelagica* strain UHM3201 (Schvarcz, Stancheva & Steward, 2022) and its nitrogen-fixing, endosymbiotic cyanobacterium. ***Wellcome Open Res.*** 9:232. *Role: Project coordinator and co-author.*

181. Kantor, E. J. H., Robicheau, B., Tolman, J., **Archibald, J. M.**, and LaRoche, J. 2024. Targeted metagenomics reveals pangenomic diversity of the nitroplast (UCYN-A) and its algal host plastid. ***ISME Comm.*** 4(1): ycae150. *Role: author and co-supervisor.*

180. Bougon, J., Kadijk, E.C., Gallot-Lavallée, L., Curtis, B.A., Landers, M., **Archibald, J.M.** & Khaperskyy, D. A. 2024. Influenza A virus NS1 effector domain is required for PA-X mediated host shutoff in infected cells. ***J. Virol.*** 98, e01901-23. *Role: supervisor and co-author.*

179. Jerlström-Hultqvist, J., Gallot-Lavallée, L., Salas-Leiva, D., Curtis, B. A., Pašuthová,K., Čepička, I., Stairs, C., Pipaliya, S., Dacks, J., **Archibald, J. M.**, & Roger, A. J. 2024. A unique symbiosome in an anaerobic single-celled eukaryote. ***Nature Comm*.** 15: 9726. *Role: supervisor and co-author.*

178. Feng X, Zheng J, Irisarri I, Yu H, Zheng B, Ali Z, de Vries S, Keller J, Fürst-Jansen JMR, Dadras A, Zegers JMS, Rieseberg TP, Ashok AD, Darienko T, Bierenbroodspot MJ, Gramzow L, Petroll R, Haas FB, Fernandez-Pozo N, Nousias O, Li T, Fitzek E, Grayburn WS, Rittmeier N, Permann C, Rümpler F, **Archibald J. M.**, Theißen G, Mower JP, Lorenz M, Buschmann H, von Schwartzenberg K, Boston L, Hayes RD, Daum C, Barry K, Grigoriev IV, Wang X, Li FW, Rensing SA, Ari JB, Keren N, Mosquna A, Holzinger A, Delaux PM, Zhang C, Huang J, Mutwil M, de Vries J, Yin Y. 2024. Chromosome-level genomes of multicellular algal sisters to land plants illuminate signaling network evolution. ***Nature Genet*.** 56: 1018-1031. *Role: co-author.*

177. **Archibald, J.M.** 2024. Symbiotic revolutions at the interface of genomics and microbiology. ***PLOS Biol.*** 22:e3002581. IC

176. Gallot-Lavallée, L., Jerlström-Hultqvist, J., Stairs, C. W., Cepicka, I., Roger, A. J., & **Archibald, J. M.** 2023. Massive intein content in three *Anaeramoeba* genomes reveals new aspects of intein mobility in eukaryotes. ***Proc. Natl. Acad. Sci. USA*.** 120, 49: e2306381120. *Role: Senior author and supervisor.*

175. Collier, J. L., Rest, J. S., Lavington, E., Gallot-Lavallée, L., Kuo, A., Jenkins, J., Pangilinan, J. Daum, C., Grigoriev, I. V., Filloramo, G. F., Curtis, B. A., Vanclova, A., & **Archibald, J. M.** 2023. The protist *Aurantiochytrium* has universal subtelomeric rDNAs and is a host for mirusviruses. *Curr. Biol*. 33, 5199-5207. *Role: supervisor and co-author.* **Subject of DISPATCH** (Aylward F.O. 2023. ***Curr. Biol.*** 33, R1222-R1245)

174. Rius, M., Rest, J. S., Filloramo, G., Vanclova, A., **Archibald, J. M.**, & Collier, J.L. 2023. Horizontal gene transfer and fusion spread carotenogenesis among diverse heterotrophic protists. ***Genome. Biol. Evol.*** 15(3): evad029. doi.org/10.1093/gbe/evad029. *Role: author and supervisor*.

173. Zhang, X., Hu, Y., Cheng, Z. & **Archibald, J. M.** 2023. HSDecipher: A pipeline for comparative genomic analysis of highly similar duplicate genes in eukaryotic genomes. ***STAR Protocols*.** 4, 102014. *Role: senior author and supervisor.*

172. Kim, J. I., Tanifuji, G., Minseok, J., Shin, W., & **Archibald, J. M.** 2022. Gene loss, pseudogenization and genome reduction in non-photosynthetic species of *Cryptomonas* (Cryptophyceae) revealed by comparative nucleomorph genomics. ***BMC Biol.*** 20:227. *Role: Senior author and supervisor.*

171. Hess, S., Williams, S, Busch, A., Irisarri, I., Delwiche, C.F., de Vries, S., Darienko, T., Roger, A.J., **Archibald, J. M.**, Buschmann, H., von Schwartzenberg, K., & de Vries, J. 2022. A phylogenomically informed five-order system for the closest relatives of land plants. ***Curr. Biol.*** 32, 1-10. *Role: co-author.*

170. Matthey-Doret*, C., Colp*., M. J., Escoll Guerrero, P., Thierry, A., Curtis, B. A., Sarrain, M., Gray, M.W., Lang B.F., **Archibald, J. M.**, Buchrieser, C., & Koszul, R. 2022. Chromosome-scale assemblies of *Acanthamoeba castellanii* genomes provide insights into *Legionella pneumophila* infection-related chromatin re-organization. ***Genome Res.*** 32, 1698-1710. *Role: co-Senior author and supervisor.* *Co-first author.

169. Kim, J. I., Jo, B. Y., Park, M. G., Yoo, Y. D., Shin, W., & **Archibald, J. M.** 2022. Evolutionary dynamics and lateral gene transfer in raphidophycean plastid genomes. ***Frontiers Plant Sci.*** 13, doi:10.3389/fpls.2022. 896138. *Role: Senior author and supervisor.*

168. Zhang, X., Hu, Y., Eme, L., Maruyama, S., Eveleigh, R. J. M., Curtis, B. A., Sibbald, S. J., Hopkins, J. F., Filloramo, G. V., van Wijk, K., & **Archibald, J. M.** 2022. TreeTuner: A pipeline for minimizing redundancy and complexity in large phylogenetic datasets. ***STAR Protocols*****.** 3, 101175. *Role: senior author and supervisor.*

167. Lawniczak, M. K. N., Durbin, R., Flicek, P., Lindblad-Toh, K., Wei, X., **Archibald, J. M.**, Baker, W. J., Belov, K., Blaxter, M. L., Marques Bonet, T., Childers, A. K., Coddington, J. A., Crandall, K. A., Crawford, A. J., Davey, R. P., Di Palma, F., Fang, Q., Haerty, W., Hall, N., Hoff, K. J., Howe, K., Jarvis, E. D., Johnson W. E., Johnson, R. N., Kersey, P. J., Liu, X., Lopez, J. V., Myers, E. W., Pettersson, O. V., Phillippy, A. M., Poelchau, M. F., Pruitt, K. D., Rhie, A., Castilla-Rubio, J. C., Sahu, S. K., Salmon, N. A., Soltis, P. S., Swarbreck, D., Thibaud-Nissen, F., Wang, S., Wegrzyn, J. L., Zhang, G., Zhang, H., Lewin, H. A., Richards, S. 2022. Standards recommendations for the Earth BioGenome Project**.** ***Proc. Natl. Acad. Sci. USA*****.** 119, 4 e2115636118. *Role: Co-author.* IR

166. Blaxter, M., **Archibald, J. M.**, Childers, A. K., Coddington, J. A., Crandall, K. A., Di Palma, F., Durbin, R., Edwards, S. V., Graves, J. A. M., Hackett, K. J., Hall, N., Jarvis, E. D., Johnson, R. N., Karlsson, E. K., Kress, W. J., Kuraku, S., Lawniczak, M. K. N., Lindblad-Toh, K., Lopez, J. V., Moran, N.A., Robinson, G. E., Ryder, O. A., Shapiro, B., Soltis, P. S., Warnow, T., Zhang, G., & Lewin, H. A. 2022. Why sequence all eukaryotes? ***Proc. Natl. Acad. Sci. USA*****.** 119, 4 e2115636118. *Role: Co-author.* IR

165. Lewin, H. A., Richards, S., Lieberman Aiden, E., Allende, M. L., **Archibald, J. M.,** Bálint, M., Barker, K. B., Baumgartner, B., Belov, K., Bertorelle, G., Blaxter, M.L., Cai, J., Caperello, N. D., Carlson, K., Castilla-Rubio, J. C., Chaw, S. M., Chen, L., Childers, A. K., Coddington, J. A., Conde, D. A., Corominas, M., Crandall, K. A., Crawford, A. J., DiPalma, F., Durbin, R., Ebenezer, T. E., Edwards, S. V., Fedrigo, O., Flicek, P., Formenti, G., Gibbs, R. A., Gilbert, M. T. P., Goldstein, M. M., Graves, J. M., Greely, H. T., Grigoriev, I. V., Hackett, K. J., Hall, N., Haussler, D., Helgen, K. M., Hogg, C. J., Isobe, S., Jakobsen, K. S., Janke, A., Jarvis, E. D., Johnson, W. E., Jones, S. J. M., Karlsson, E. K., Kersey, P. J., Kim, J. H., Kress, W. J., Kuraku, S., Lawniczak, M. K. N., Leebens-Mack, J. H., Li, X., Lindblad-Toh, K., Liu, X., Lopez, J. V., Marques-Bonet, T., Mazard, S., Mazet, J. A. K., Mazzoni, C. J., Myers, E. W., O'Neill, R. J., Paez, S., Park, H., Robinson, G. E., Roquet, C., Ryder, O. A., Sabir, J. S. M., Shaffer, H. B., Shank, T. M., Sherkow, J. S., Soltis, P. S., Tang, B., Tedersoo, L., Uliano-Silva, M., Wang, K., Wei, X., Wetzer, R., Wilson, J. L., Xu, X., Yang, H., Yoder, A. D., Zhang, G. 2022. The Earth BioGenome Project 2020: starting the clock. ***Proc. Natl. Acad. Sci. USA*****.** 119, 4 e2115636118. *Role: co-author.* 117 CITATIONS IR

164. Fürst-Jansen, J. M. R., de Vries, S. von Schwartzenberg, K. **Archibald, J. M.**, & de Vries, J. 2022. Submergence of the filamentous Zygnematophyceae *Mougeotia* induces differential gene expression patterns associated with photosynthesis. ***Protoplasma***. doi: 10.1007/s00709-021-01730-1. *Role: Co-senior author and supervisor.*

163. Wright, V., **Archibald, J. M.**, Beinart, R., Dawson, M.N., Hentschel, U., Keeling, P.J., Lopez, J.V., Martín-Durán, J.M., Petersen, J.M., Sigwart, J.D., Simakov, O., Sutherland, K.R., Sweet, M., Talbot, N., Thompson, A.W., Bender, S., Harrison, P.W., Rajan, J., Cochrane, G., Berriman, M., Lawniczak, M. & Blaxter, M. 2021. The Aquatic Symbiosis Genomics Project: probing the evolution of symbiosis across the tree of life. ***Wellcome Open Res.*** 6:254. Role: Co-author.

162. Salas-Leiva, D. E., Tromer, E. C., Curtis, B. A., Jerlström-Hultqvist, J., Kolisko, M., Yi, Z., Salas-Leiva, J. S., Gallot-Lavallée, L., Kops, J. J. P. L., **Archibald, J. M.**, Simpson, A. G. B., & Roger, A. J. 2021. Genomic analysis finds no evidence of canonical eukaryotic DNA processing systems in a free-living protist. *Nat. Comm.* 12:6003. *Role: co-author, supervisor.*

161. Rowarth, N. M., Curtis, B. A., Einfeldt, A. L., **Archibald, J. M.**, Lacroix, C. R., & Gunawardena, A. H. L. A. N. 2021. RNA-Seq analysis reveals potential regulators involved in program cell death and remodeling of lace plant leaves (*Aponogeton madagascariensis*). ***BMC Plant Biol.*** 21:375. *Role: co-author and supervisor*.

160. Filloramo, G. V., Blanche, E., Curtis, B. A., & **Archibald, J. M.** 2021. Re-examination of two diatom reference genomes using long-read sequencing. ***BMC Genomics*****.** 22:379. *Role: Senior author and supervisor.*

159. Blais, C. & **Archibald, J. M.** 2021. The past, present and future of the Tree of Life. ***Curr Biol.*** 31, R311-329. Role: *Role: Senior author and supervisor.* IR

158. Sibbald, S. J., Lawton, M. & **Archibald, J. M.** 2021. Mitochondrial genome evolution in pelagophyte algae. ***Genome Biol. Evol.*** 13(3) Doi: 10.1093/gbe/evab018 *Role: Senior author and supervisor.*

157. Gallot-Lavallée, L. & **Archibald, J. M.** 2020. Evolution: viral rhodopsins illuminate algal evolution. ***Curr. Biol.*** 30, R1469-1471. IC

156. **Archibald, J. M.** 2020. Quick Guide: Cryptomonads. ***Curr. Biol.*** 30, R1116-R1115. IC

155. Kim, J. I., Minseok, J., **Archibald, J. M** & Shin, W. 2020. Comparative plastid genomics of non-photosynthetic chrysophytes: genome reduction and compaction. ***Frontiers Plant Sci*****.** 11:572703. Doi: 10.3389/fpls.2020.572703. *Role: Co-author.*

154. de Vries, S., de Vries, J., **Archibald, J. M.**, & Slamovits, C. S. 2020. Comparative analyses of saprotrophy in *Salisapilia sapeloensis* and diverse plant pathogenic oomycetes reveal lifestyle-specific gene expression. ***FEMS Microbiol. Ecol*****.** 96, fiaa184. *Role: author and supervisor*.

153. Sibbald, S. J., Eme, L., **Archibald, J. M.** & Roger, A. J. 2020. Lateral gene transfer mechanisms and pan-genomes in eukaryotes. ***Trends Parasitol****.* 36, 927-941. (Invited review article). *Role: supervisor and co-author.* IR

152. de Vries, J., de Vries, S., Curtis, B.A., Zhou, H., Penny, S., Feussner, K., Pinto, D.M., Steinert, M., Cohen, A., von Schwartzenberg, K., & **Archibald, J. M.** 2020. Heat stress response in the closest algal relatives of land plants reveals conserved stress signalling circuits. ***Plant J.*** 103, 1025-1048. *Role: senior author and supervisor.* **AWARDED 'MOST OUTSTANDING PAPER' FOR 2020 BY TPJ.**

151. Sibbald, S. J. & **Archibald, J. M.** 2020. Genomic insights into plastid evolution. ***Genome Biol. Evol.*** 12 (7), 978-990. doi: 10.1093/gbe/evaa096*. Role: senior author.* IR **JOURNAL COVER**

150. Colp, M. & **Archibald, J. M.** 2020. The language of symbiosis: insights from protist biology. In: *Cellular dialogs in the holobiont.* Bosch, T. and Hadfield, M. (eds.). CRC Press. (Invited book chapter) *Role: Senior author.* IC

149. Tanifuji, G., Kamikawa, R., Moore, C. E., Mills, T., Onodera, N. T., Kashiyama, Y., **Archibald, J. M.**, Inagaki, Y, & Hahimoto, T. 2020. Comparative plastid genomics of photosynthetic and non-photosynthetic *Cryptomonas* species reveals loss of photosynthesis. ***Genome Biol. Evol.*** 12, 3926-3937: doi 10.1093/gbe/evaa001. *Role: supervisor*.

148. Gallot-Lavallée, L. & **Archibald, J. M.** 2020. Spotlight: Phagocytosis in a shape-shifting bacterium. ***Trends Microbiol.*** 28, 429-430. IC

147. Åsman, A., Curtis, B. A. & **Archibald, J. M.** 2019. Nucleomorph small RNAs in cryptophyte and chlorarachniophyte algae. ***Genome Biol. Evol.*** 11, 1117-1134. *Role: Senior author and supervisor.*

146. Grisdale, C. J., Smith, D. R., and **Archibald, J. M.** 2019. Relative mutation rates in nucleomorph-bearing algae. ***Genome Biol. Evol*.** 11, 1045-1053. *Role: Senior author and supervisor.*

145. Sibbald, S. J., Hopkins, J. F., Filloramo, G. V., & **Archibald, J. M.** 2019. Ubiquitin fusion proteins in complex algae: implications for the spread of eukaryotic photosynthesis. ***BMC Genomics*.** 20, 38. *Role: Senior author and supervisor.*

144. Kim, J. I., Shin, H., Škaloud, P., Jung, J., Yoon, H.S., **Archibald, J. M.** & Shin, W. 2019. Comparative plastid genomics of Synurophyceae: inverted repeat dynamics and gene content variation. ***BMC Evol. Biol.*** 19, 20. doi: 10.1186/s12862-018-1316-9 *Role: Co-senior author and supervisor.*

143. Colp, M. J. & **Archibald, J. M.** 2019. Evolution: New protist predators under the sun. ***Curr. Biol.*** 29, R936-R-938*. Role: Senior author.* IC

142. **Archibald, J. M.** 2019. Genomics reveals alga-associated cyanobacteria hiding in plain sight. ***Proc. Natl. Acad. Sci. USA*.** 116, 15757-15759. *Role: Primary author.* IC

141. Cenci, U., Sibbald, S. J., Curtis, B. A., Eme, L., Moog, D., Henrissat, B., Maréchal, E., Chabi, M., Djemiel, C., Roger, A. J., Kim, E., & **Archibald, J. M.** 2018. Nuclear genome sequence of the plastid-lacking cryptomonad *Goniomonas avonlea* provides insights into the evolution of secondary plastids. ***BMC Biology*.** 16, 137. *Role: senior author and supervisor.*

140. Lukeš, J., Jirsová, D., David, V., Wheeler, R. & **Archibald, J. M.** 2018. Massive mitochondrial DNA content in diplonemid and kinetoplastid protists. IUBMB Life. 70, 1267-1274. *Role: Co-senior author and supervisor.*

139. Kim, J. I., Yoon, H. S., Gangman, Y., Shin, W., & **Archibald, J. M**. 2018. Comparative mitochondrial genomics of cryptophyte algae: gene shuffling and dynamic mobile genetic elements. ***BMC Genomics.*** 19, 275. *Role: Co-senior author and supervisor.*

138. de Vries, J., Curtis, B. A., Gould, S. B. & **Archibald, J. M.** 2018. Embryophyte stress signaling evolved in the algal progenitors of land plants. ***Proc. Natl. Acad. Sci. USA***. 115, E3471-3480. *Role: Senior author and supervisor.* **JOURNAL COVER 138 CITATIONS**

137. de Vries, S., de Vries, J., von Dahlen, J. K., Gould, S. B. & **Archibald, J. M.** 2018. On plant defense signaling networks and early land plant evolution. ***Commun. Integr. Biol.*** 11: e1486168. IR

136. de Vries, J. & **Archibald, J. M.** 2018. Plastid evolution: autonomy versus nuclear control. In: Advances in Botanical Research, Volume 85 (Plastid Genome Evolution). Chaw, S.-M. & Jansen, R. (eds.). Pp. 1-28. (Invited book chapter). *Role: senior author.* IR

135. Nowak, B. & **Archibald, J. M.** 2018. Opportunistic but lethal: the mystery of paramoebae. ***Trends Parasitol.*** Invited review article. 34, 404-419. *Role: Co-author.* IR

134. de Vries, J. & **Archibald, J. M.** 2018. Plant evolution: landmarks on the path to terrestrial life. ***New Phytol.*** 217, 1428-1434. Commissioned insight. *Role: senior author.* IR

133. **Archibald, J. M.** 2018. Evolution: scaling life's tree. ***Nature***. 560, 26-27. (Invited book review) *Role: Primary author.* IC

132. de Vries, J. & **Archibald J. M.** 2018. Quick guide: plastid genomes ***Curr. Biol.*** 28, R336-R337. *Role: Senior author*. IC

131. Raina, J.-B., Eme, L., Pollock, F.J., Spang, A., **Archibald, J.M.**, & Williams, T.A. 2018. Symbiosis in the microbial world: from ecology to genome evolution. ***Biol. Open.*** 7, bio032524. doi:10.1242/bio.032524. *Role: co-author*. IC

130. Cheng, S., Melkonian, M., Smith, S. A., Brockington, S., **Archibald, J. M.**, Delaux, P.-M., Li, F.-W., Melkonian, B., Mavrodiev, E. V., Sun, W., Fu, Y., Yang, H., Soltis, D. E., Graham, S. W., Soltis, P. S., Liu, Z., Xu, X., and Wong, G. K.-S. 2018. 10KP: a phylodiverse genome sequencing plan. ***GigaScience.*** 7, 1-9. **216 CITATIONS** IC

129. Tanifuji, G., Cenci, U., Moog, D., Dean, S., Nakayama, T., David, V., Fiala, I., Curtis, B. A., Sibbald, S.J., Onodera, N.T., Colp, M., Flegontov, P., Johnson-MacKinnon, J., McPhee, M., Inagaki, Y., Hashimoto, T., Kelly, S., Gull, K., Lukeš, J., and **Archibald, J. M.** 2017. Genome sequencing reveals metabolic and cellular interdependence in an amoeba-kinetoplastid symbiosis. ***Scientific Rep.*** 7, 11688. doi:10.1038/s41598-017-11866-x. *Role: Project coordinator, supervisor, and senior author.*

128. Eleni Gentekaki, Bruce A. Curtis, Courtney Stairs, Vladimír Klimeš, Marek Eliáš, Dayana Salas, Emily K. Herman, Laura Eme, Maria C. Arias, Bernard Henrissat, Frédérique Hilliou, Mary Klute, Hiroshi Suga, Shehre-Banoo Malik, Arthur W. Pightling, Martin Kolisko, Richard A. Rachubinski, Alexander Schlacht, Darren M. Soanes, Anastasios D. Tsaousis, **John M. Archibald**, Steven G. Ball, Joel B. Dacks, C. Graham Clark, Mark van der Giezen, Andrew J. Roger. 2017. Extreme genome diversity in the hyper-prevalent parasitic eukaryote *Blastocystis*. ***PLoS Biol.*** 15, e2003769. *Role-co-supervisor*.

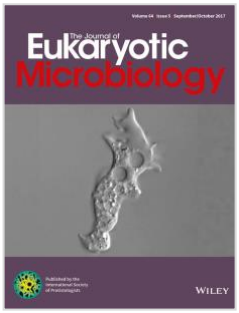
127. Kim, J. I., Moore, C. E., **Archibald, J. M.**, Bhattacharya, D., Gangman, Y., Yoon, H. S., & Shin, W. 2017. Evolutionary dynamics of cryptophyte plastid genomes. ***Genome Biol. Evol.*** 9, 1859-1872. *Role: Supervisor.*

126. Kamikawa, R., Moog, D., Zauner, S., Tanifuji, G., Ishida, K.-I., Miyashita, H., Mayama, S, Hashimoto, T, Maier, U.-G., **Archibald, J. M.**, and Inagaki, Y. 2017. A non-photosynthetic diatom reveals early steps of reductive evolution in plastids. ***Mol. Biol. Evol***. 34, 2355-2366. *Role: Supervisor.*

125. Muñoz-Gómez, S. A., Mejía-Franco, F. G., Durnin, K., Colp, M., Grisdale, C. J., **Archibald, J. M.**, Slamovits, C. H. 2017. The new red algal subphylum Proteorhodophytina comprises the largest and most divergent plastid genomes known. ***Curr. Biol.*** 27, 1677-1684. *Role: Supervisor.*

124. de Vries, J., de Vries, S., Slamovits, C. H., Rose, L. E., and **Archibald, J. M.** 2017. How embryophytic is the biosynthesis of phenylpropanoids and their derivatives in streptophyte algae? ***Plant and Cell Physiol*.** 58, 934-935. doi: 10.1093/pcp/pcx037. *Role: Senior author and supervisor.*

123. de Vries, J., **Archibald, J. M.**, and Gould, S. B. 2017. The carboxy terminus of YCF1 contains a motif conserved throughout >500 million years of streptophyte evolution. ***Genome Biol. Evol*.** 9, 473-479. doi: 10.1093/gbe/evx013. *Role: Supervisor*.



122. Sibbald, S., Cenci, U., Colp, M., Eglit, Y., O'Kelly, C.J., & **Archibald, J. M.** 2017. Diversity and evolution of *Paramoeba* sp. and their kinetoplastid endosymbionts. ***J. Eukaryot. Microbiol*.** 4: 598-607. *Role: senior author.* **JOURNAL COVER**

121. Eme, L., Gentekaki, E., Curtis, B., **Archibald, J. M.**, and Roger, A. J. 2017. Lateral gene transfer in adaptation of the anaerobic parasite *Blastocystis* to the gut. ***Curr. Biol***. 27, 807-820. *Role: Supervisor*.

120. Simpson, A. G. B., Slamovits, C. H. & **Archibald, J. M**. 2017, Protist diversity and eukaryote phylogeny. In: *Handbook of the Protists (2nd edition of the Handbook of Protoctista by Margulis et al.*). Archibald, J.M., Simpson, A.G.B, & Slamovits, C. (eds.). Springer. (Introductory chapter). *Role: Co-author.* IR

119. Hoef-Emden, K. & **Archibald, J. M.** 2017, Cryptophyta (Cryptomonads). In: *Handbook of the Protists (2nd edition of the Handbook of Protoctista by Margulis et al.*). Archibald, J.M., Simpson, A.G.B, & Slamovits, C. (eds.). Springer. (Invited book chapter). *Role: senior author.* IR

118. Grisdale, C., & **Archibald, J. M.** 2017. Secondary and tertiary endosymbiosis. In: *Reference Module in Life Sciences*. Elsevier Publishing. ISBN: 978-0-12-809633-8. (Invited textbook chapter). *Role: Primary author.* IR

117. **Archibald J. M.** 2017. Evolution: Protein import into a nascent photosynthetic organelle. ***Curr. Biol.*** 27, R1004-1006. IC

116. Sibbald, S. J. & **Archibald J. M.** 2017. More protist genomes needed. ***Nature Ecol. Evol.*** 1, 145. doi: 10.1038/s41559-017-0145. *Role: Senior author*. IC

115. de Vries, J. & **Archibald J. M.** 2017. Endosymbiosis: did plastids evolve from a freshwater cyanobacterium? ***Curr. Biol.*** 27, R103-105. *Role: Senior author*. IC

114. Cenci, U., Moog, D., Curtis, B. A., Tanifuji, G., Eme, L., Lukeš, J., and **Archibald, J. M.** 2016. Heme pathway evolution in kinetoplastid protists. ***BMC Evol. Biol*.** 16:109 (doi:10.1186/s12862-016-0664-6). *Role: Senior author.*

113. Tanifuji, G., **Archibald, J. M**., and Hashimoto, T. 2016. Comparative genomics of mitochondria in chlorarachniophyte algae: endosymbiotic gene transfer and organellar genome dynamics. ***Scientific Rep.*** 6, 21016. doi:10.1038/srep21016. *Role: Co-senior author.*

112. Cenci, U., Moog, D, & **Archibald, J. M.** 2016. Origin and spread of plastids by endosymbiosis. In: *Algae symbioses.* Grube, M., Muggia, L. & Seckbach, J. (eds.). Springer-Verlag. (Invited book chapter). *Role: Senior author*. IR

111. Caron, D. A., Alexander, H., Allen, A. E., **Archibald, J. M.**, Armbrust, E. V., Bachy, C., Bharti, A., Bell, C. J., Dyhrman, S. T., Guida, S., Heidelberg, K. B., Kaye, J. Z., Metzner, J., Smith, S. R., & Worden, A. Z. 2016. Probing the evolution, ecology and physiology of marine protists using transcriptomics. ***Nature Rev. Microbiol.*** 15, 6-20. *Role: co-author.* IR

110. de Vries, J., Stanton, A., **Archibald, J. M.**, & Gould, S. B. 2016. Streptophyte terrestrialization in light of plastid evolution. ***Trends Plant Sci.*** 21, 467-476. (Invited Opinion Article). *Role: co-author and supervisor.* IR

109. David, V. & **Archibald J. M.** 2016. Evolution: plumbing the depths of diplonemid diversity. ***Curr. Biol.*** R1290-1292. *Role: Senior author*. IC

108. Moog, D., Rensing, S. A., **Archibald, J. M.**, Maier, U.-G., and Ullrich, K. K. 2015. Localization and evolution of putative triose phosphate translocators in the diatom *Phaeodactylum tricornutum*. ***Genome Biol. Evol.*** 7, 2955-2969. *Role: author.*

107. David, V., Flegontov, P., Gerasimov, E., Tanifuji, G., Hashimi, H., Logacheva, M.D., Maruyama, S., Onodera, N. T., Gray, M. W., **Archibald, J. M.**, and Lukeš, J. 2015. Gene loss and error-prone RNA editing in the mitochondrion of *Perkinsela*, an endosymbiotic kinetoplastid. ***mBio.*** 6, e01498-15. *Role: Co-senior author.*

106. Gile, G.H., Moog, D., Maier, U.-G., Slamovits, C., and **Archibald, J. M.** 2015. Dual organellar targeting of aminoacyl-tRNA synthetases in diatoms and cryptophytes. ***Genome Biol. Evol.*** 20, 1728-1742. *Role: Senior-author.*

105. **Archibald, J. M.** 2015. Endosymbiosis and eukaryotic cell evolution. ***Curr. Biol.*** 25, R911-R921. (Invited Special Issue Review Article) **684 CITATIONS** IR

104. **Archibald, J. M.** 2015. Genomic perspectives on the birth and spread of plastids. ***Proc. Natl. Acad. Sci. USA.*** 112, 10147-10153. (Invited commentary as part of Sackler Colloquium) **145 CITATIONS** IR

103. **Archibald, J. M.** 2015. Evolution: Gene transfer in complex cells. ***Nature***. 524, 423-424. (Invited News & Views) *Role: Primary author.* IC

102. Nakayama, T., Kamikawa, R., Tanifuji, G., Kashiyama, Y., Ohkouchi, N., **Archibald J. M.**, and Inagaki, Y. 2014. Complete genome of a non-photosynthetic cyanobacterium in a diatom reveals recent adaptations to an intracellular lifestyle. ***Proc. Natl. Acad. Sci. USA.*** 111, 11407-11412. *Role: Co-senior author.*

101. McRose, D., Guo, J., Monier, A., Sudek, S., Wilken, S., Yan, S., Mock, T., **Archibald, J. M.**, Begley, T. P., Reyes-Prieto, A. & Worden A. Z. 2014. Alternatives to vitamin B_1 uptake revealed with discovery of riboswitches in multiple marine eukaryotic lineages. ***ISME Journal.*** 8, 2517-2529. *Role: Co-author.*

100. Hirakawa, Y., Suzuki, S., **Archibald, J. M.,** Keeling, P. J. & Ishida, K.-I. 2014. Overexpression of molecular chaperone genes in nucleomorph genomes. ***Mol. Biol. Evol.*** 31, 1437-1443. *Role: Co-author.*

99. Tanifuji, G., Onodera, N. T., Brown, M. W., Curtis, B. A., Roger, A. J., Wong, G. K.-S., Melkonian, M. & **Archibald, J. M.** 2014. Nucleomorph and plastid genome sequences of the chlorarachniophyte *Lotharella oceanica*: convergent reductive evolution and frequent recombination in nucleomorph-bearing algae. ***BMC Genomics.*** 15, 374. *Role: Senior author.*

98. Tanifuji, G., Onodera, N. T., Moore, C. E. & **Archibald, J. M.** 2014. Reduced nuclear genomes maintain high levels of gene transcription. ***Mol. Biol. Evol***. 31, 625-635. *Role: Senior author.*

97. **Archibald, J. M.** 2014. The cellular revolution. ***The Scientist*** 12, 74 (invited contribution to 'Reading Frames' section) IC

96. Keeling, P. J., (75 other authors, including **Archibald, J. M.**), & Worden, A. Z. 2014. The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): illuminating the functional diversity of eukaryotic life in the oceans through transcriptome sequencing. ***PLoS Biol*.** 12, e1001889. *Role: co-author.* **1018 CITATIONS** IC

95. Tanifuji, G. & **Archibald, J. M.** 2014. Nucleomorph comparative genomics. In: *Endosymbiosis.* Löffelhardt, W. (ed.). Springer Wein New York. Pp. 197-213. (Invited book chapter) *Role: Senior author.* IC

94. Eveleigh, R. J. M., Meehan, C.J., **Archibald, J. M.** & Beiko, R. G. 2013. Being *Aquifex aeolicus*: untangling a hyperthermophile's checkered past. ***Genome Biol. Evol.*** 5, 2478-2497. *Role: Co-senior author.*

93. Smith, D.R., Hua, J., **Archibald, J. M.** & Lee, R.W. 2013. Palindromic genes in the linear mitochondrial genome of the nonphotosynthetic green alga *Polytomella magna*. ***Genome Biol. Evol.*** 5, 1661-1667. *Role: Co-senior author.*

92. Maruyama, S., Eveleigh, R. J. M. & **Archibald, J. M.** 2013. TreeTrimmer: a method for phylogenetic dataset size reduction. ***BMC Res. Notes****.* 6, 145. *Role: Senior author.*

91. Flegontov, P., Votypka, J., Skalicky, T., Logacheva, M. D., Penin, A. A., Tanifuji, G., Onodera, N. T., Kondrashov, A. S., **Archibald, J. M.** & Lukeš, J. 2013. *Paratrypanosoma* is a novel trypanosomatid. ***Curr. Biol.*** 23, 1787-1793. Role: Co-senior author.

90. Kim, E. & **Archibald, J. M.** 2013. Ultrastructure and molecular phylogeny of the cryptomonad *Goniomonas avonlea* sp. nov. ***Protist***. 164, 160-182. *Role: Senior author.*

89. **Archibald, J. M.** 2013. The evolution of algae by secondary and tertiary endosymbiosis. In: *Advances in Botanical Research.* Piganeau, G. (ed.). Elsevier Press. Pp. 87-118. (Invited book chapter). *Role: Senior author.* IR

88. Hopkins, J. F., Eveleigh, R. J. M., Spencer, D. F., Laboissiere, S., Neilson, J. A. D., Durnford, D. G., Gray, M. W. & **Archibald J. M**. 2012. Proteomics reveals plastid- and periplastid-targeted proteins in the chlorarachniophyte alga *Bigelowiella natans*. ***Genome Biol. Evol.*** 4, 1391-1406. *Role: Senior author.*

87. Nakayama, T., Ishida, K.-I., & **Archibald J. M**. 2012. Broad distribution of TPI-GAPDH fusion proteins among eukaryotes: evidence for glycolysis in the mitochondrion? ***PLoS One.*** 7, e52340. *Role: Senior author.*

86. Curtis, B. A., Tanifuji, G., Burki, F., Gruber, A., Irimia, M., Maruyama, S., Arias, M. C., Ball, S. G., Gile, G. H., Hirakawa, Y., Hopkins, J. F., Kuo, A., Rensing, S. A., Schmutz, J., Symeonidi, A., Elias, M., Eveleigh, R. J. M., Herman, E. K., Klute, M. J., Nakayama, T., Oborník, M., Reyes-Prieto, A., Armbrust, V. E., Aves, S. J., Beiko, R. G., Coutinho, P., Dacks, J. B., Durnford, D. G., Fast, N. M., Green, B. R., Grisdale, C. J., Hempel, F., Henrissat, B., Höppner, M. P., Ishida, K.-I., Kim, E., Kořený, L., Kroth, P. G., Liu, Y., Malik, S.-B., Maier, U. G., McRose, D., Mock, T., Neilson, J. A. D., Onodera, N. T., Poole, A. M., Pritham, E. J., Richards, T. A., Rocap, G., Roy, S. W., Sarai, C., Schaack, S., Shirato, S., Slamovits, C. H., Spencer, D. F., Suzuki, S., Worden, A. Z.,

Zauner, S., Barry, K., Bell, C., Bharti, A. K., Crow, J. A., Grimwood, J., Kramer, R., Lindquist, E., Lucas, S., Salamov, A., McFadden, G. I., Lane, C. E., Keeling, P. J., Gray, M. W., Grigoriev, I. V., **Archibald, J. M.** 2012. Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. ***Nature***. 492, 59-65. *Role: PI, supervisor, project coordinator and senior author.* **Subject of *Nature* NEWS & VIEWS and several other commentaries. 435 CITATIONS**

85. Moore, C., Curtis, B. A., Tanifuji, G. & **Archibald J. M.** 2012. Nucleomorph genome sequence of the cryptophyte alga *Chroomonas mesostigmatica* reveals lineage-specific gene loss and genome complexity. ***Genome Biol. Evol.*** 4, 1162-1175. *Role: Senior author.*

84. Onodera, N., Ryu, J., Durbic, T., Nislow, C., **Archibald, J. M.,** & Rohde, J. R. 2012. Genome sequence of *Shigella flexneri* serotype 5a strain M90T Sm. ***J. Bacteriol*.** 194, 3022. *Role: Co-Senior author.*

83. Maruyama, S. & **Archibald, J. M.** 2012. Endosymbiosis, gene transfer, and algal cell evolution. In: *Advances in algal cell biology.* Heimann, K. and Katsaros, C. (eds.). Walter de Gruyter. Pp. 21-41. (Invited book chapter) *Role: Senior author.* IC

82. Nakayama, T. & **Archibald, J. M.** 2012. Evolving a photosynthetic organelle. ***BMC Biol.*** 10, 35. (Invited review article) *Role: Senior author.* IC

81. Gray, M. W. & **Archibald, J. M.** 2012. Origins of mitochondria and plastids. In: *Advances in photosynthesis and respiration (Genomics of chloroplasts and mitochondria).* Bock, R. & Knoop, V. (eds.). Springer. Pp. 1-30. (Invited book chapter) *Role: Co-author*. IC

80. **Archibald, J. M.** 2012. Plastid origins. In: *Organelle genetics: evolution of organelle genomes and gene expression.* Bullerwell, C. (ed.). Springer-Verlag. Pp. 19-38. (Invited book chapter) *Role: Primary author.* IC

79. **Archibald, J. M.** 2012. Lynn Margulis (1938-2011). ***Curr. Biol.*** 22, R4-6. (invited Obituary) *Role: Senior author.* IC

78. Tanifuji, G., Kim, E., Onodera, N. T., Gibeault, R., Dlutek, M., Cawthorn, R. J., Fiala, I., Lukeš, J., Greenwood, S. J., & **Archibald, J. M.** 2011. Genomic characterization of *Neoparamoeba pemaquidensis* (Amoebozoa) and its *Ichthyobodo*-related endosymbiont (Euglenozoa). ***Eukaryot. Cell.*** 10, 1143-1146. *Role: Senior author.*

77. Maruyama, S., Suzaki, T., Weber, A. P. M., **Archibald, J. M.**, & Nozaki, H. 2011. Ancient gene transfer from algae harboring red algal-derived secondary plastids to euglenids. ***BMC Evol. Biol.*** 11, 105. *Role: Co-senior author*.

76. Kim, E., Harrison, J., Sudek, S., Jones, M. D. M., Wilcox, H. M., Richards, T. A., Worden, A. Z., & **Archibald, J. M.** 2011. Newly identified and diverse plastid-bearing branch on the eukaryotic tree of life. ***Proc. Natl. Acad. Sci. USA*.** 108, 1496-1500. *Role: Co-senior author.*
FACULTY OF 1000 BIOLOGY SELECTION Top 50 most-read articles at PNAS for January 2011. 109 CITATIONS

75. Tanifuji, G., Onodera, N. T., Wheeler, T. J., Dlutek, M., Donaher, N. & **Archibald, J. M.** 2011. Complete nucleomorph genome sequence of the non-photosynthetic alga *Cryptomonas paramecium* reveals a core nucleomorph gene set. ***Genome Biol. Evol*.** 3, 44-54. *Role: Senior author.*

74. **Archibald, J. M.** 2011. Origin of eukaryotic cells: 40 years on. ***Symbiosis***. 54, 69-86. (Invited commemorative review) IR

73. McInerney, J. O., Martin, W. F., Koonin, E. V., Allen, J. F., Galperin, M. Y., Lane, N., **Archibald, J. M**., & Embley, T. M. 2011. Planctomycetes and eukaryotes: a case of analogy not homology. ***BioEssays***. 33, 810-817. *Role: Co-author.* IR

72. Lukeš, J., **Archibald, J. M.**, Keeling, P. J., Gray, M. W. & Doolittle, W. F. 2011 How a neutral evolutionary ratchet can build cellular complexity**.** ***IUBMB Life.*** 63, 528-537. *Role: Co-author.* IR

71. Doolittle, W. F., Lukeš, J., **Archibald, J. M.**, Keeling, P. J. & Gray, M. W. 2011. Comment on "Does constructive neutral evolution play an important role in the origin of cellular complexity?" ***BioEssays***. 33, 427-429. *Role: Co-author.* IC

70. Richards, T. A. & **Archibald J. M.** 2011. Cell evolution: gene transfer agents and the origin of mitochondria. ***Curr. Biol.*** 21, R112-114. *Role: Co-senior author*. IC

69. Curtis, B. A. & **Archibald, J. M.** 2010. A spliceosomal intron of mitochondrial DNA origin. ***Curr. Biol.*** 20, R919-920. *Role: Senior author.*

68. Tanifuji, G. & **Archibald, J. M.** 2010. Actin gene family dynamics in cryptomonads and red algae. ***J. Mol. Evol.*** 71, 169-179. *Role: Senior author.*

67. Silver, T. D., Moore, C. E. & **Archibald, J. M.** 2010. Nucleomorph ribosomal DNA and telomere dynamics in chlorarachniophyte algae. ***J. Euk. Microbiol.*** 57, 453-459. *Role: Senior author.*

66. Kim, E., Park, J. S., Simpson, A. G. B., Matsunaga, S., Watanabe, M., Murakami, A., Sommerfeld, K., Onodera, N. T., & **Archibald, J. M.** 2010. Complex array of endobionts in *Petalomonas sphagnophila*, a large heterotrophic euglenid protist from *Sphagnum*-dominated peatlands. ***ISME Journal.*** 4, 1108-1120. *Role: Senior author.*

65. Hopkins, J. & **Archibald, J. M.** 2010. Plastid evolution and the nuclear genomic 'footprint' of red and green algal endosymbionts. In: *Red algae in the genomics age*. Seckbach, J. & Grube, M. (eds.). Springer-Verlag. (Invited book chapter). Pp. 191-204. *Role: Senior author*. IR

64. Curtis, B. A. & **Archibald, J. M.** 2010. Problems and progress in understanding the origins of mitochondria and plastids. In: *Symbioses and Stress.* Seckbach, J. & Grube, M. (eds.). Springer-Verlag. (Invited book chapter). Pp. 41-62. *Role: Senior author.* IR

63. Gray, M. W., Lukeš, J., **Archibald, J. M**., Keeling, P. J., & Doolittle, W. F. 2010. Cell biology. Irremediable complexity? ***Science***. 330, 920-921. *Role: Co-author.* **280 CITATIONS** IC

62. **Archibald, J. M.** & Richards, T. A. 2010. Gene transfer: anything goes in plant mitochondria. ***BMC Biol.*** 8:147. *Role: Senior author.* IC

61. Kim, E. & **Archibald, J. M.** 2010. Plastid evolution: gene transfer and the maintenance of 'stolen' organelles. ***BMC Biol.*** 8, 73. *Role: Senior author.* IC

60. Donaher, N., Tanifuji, G., Onodera, N. T., Malfatti, S. A., Chain, P. S. G., Hara, Y., & **Archibald, J. M.** 2009. The complete plastid genome sequence of the secondarily non-photosynthetic alga *Cryptomonas paramecium*: reduction, compaction, and accelerated evolutionary rate. ***Genome Biol. Evol*.** 2009, 439-448. doi: 10.1093/gbe/evp047. *Role: Senior author.*

59. Burki, F., Inagaki, Y., Brate, J., **Archibald, J. M.**, Keeling, P. J., Cavalier-Smith, T., Sakaguchi, M., Hashimoto, T., Horak, A., Kumar, S., Klaveness, D., Jakobsen, K. S., Pawlowski, J., and Shalchian-Tabrizi, K. 2009. Large-scale phylogenomic analyses reveal that two enigmatic protist lineages, Telonemia and Centroheliozoa, are related to photosynthetic chromalveolates. ***Genome Biol. Evol.*** 2009, 231-238. doi:10.1093/gbe/evp022 *Role: Co-author.* **173 CITATIONS**

58. Ota, S., Silver, T. D., **Archibald, J. M.**, & Ishida, K.-I. 2009. *Lotharella oceanica* sp. nov.—a new planktonic chlorarachniophyte studied by light and electron microscopy. ***Phycologia*** 48, 315-323. *Role: Supervisor and co-author*.

57. Elias, M. & **Archibald, J. M.** 2009. The RJL family of small GTPases is an ancient eukaryotic invention probably functionally associated with the flagellar apparatus. ***Gene***. 442, 63-72. *Role: Senior author.*

56. Elias, M. & **Archibald, J. M.** 2009. Sizing up the footprint of endosymbiosis. ***BioEssays***. 31, 1273-1279. *Role: Senior author.* IR

55. Moore, C. & **Archibald, J. M.** 2009. Nucleomorph genomes. ***Annu. Rev. Genet.*** 43: 251-264. *Role: Senior author.* IR

54. Lane, C. E. & **Archibald, J. M.** 2009. Going, going, not quite gone: nucleomorphs as a case study in nuclear genome reduction. ***J. Heredity.*** 100, 582-582-590. (Invited review article) *Role: Senior author.* IR

53. Kim, E. & **Archibald, J. M.** 2009. Diversity and evolution of plastids and their genomes. In: *The chloroplast—interactions with the environment.* Aronsson, H. &, Sandelius, A. S. (eds.). Springer-Verlag, Berlin. Pp. 1-39. *Role: Senior author.* IR

52. **Archibald, J. M.** 2009. The origin and spread of eukaryotic photosynthesis—evolving views in light of genomics. ***Botanica Marina***. 52, 95-103. *Role: Primary author.* IR

51. **Archibald, J. M.** 2009. Secondary endosymbiosis. In: *Encyclopedia of Microbiology.* Schaechter, M. (ed.). Oxford: Elsevier. Pp. 438-446. (Invited textbook chapter) *Role: Primary author.* IR

50. Lane, C. E. & **Archibald, J. M.** 2009. Reply to Bodyl, Stiller and Mackiewicz: "Chromalveolate plastids: direct descent or multiple endosymbioses?" ***Trends Ecol. Evol.*** 24, 121-122. *Role: Senior author.* IR

49. **Archibald, J. M.** 2009. The puzzle of plastid evolution. ***Curr. Biol.*** 19, R81-R88. *Role: Primary author.* **581 CITATIONS** IR

48. **Archibald, J. M.** 2009. Genomics: Green evolution, green revolution. ***Science***. 324, 191-192. *Role: Primary author.* IC

47. Khan, H. & **Archibald, J. M**. 2008. Lateral transfer of introns in the cryptophyte plastid genome. ***Nucleic Acids Res.*** 36, 3043-3053. *Role: Senior author.*

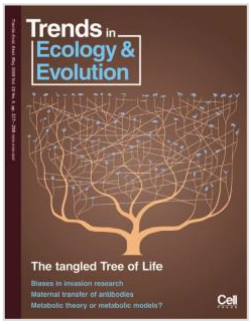
46. Kim, E., Lane, C. E., Curtis, B. A., Kozera, C., Bowman, S., & **Archibald, J. M**. 2008. Complete sequence and analysis of the mitochondrial genome of *Hemiselmis andersenii* CCMP644 (Cryptophyceae). ***BMC Genomics***. 9, 215. *Role: Co-author.*

45. Cuvelier, M. L., Ortiz, A., Kim, E., Moehlig, H., Richardson, D., Heidelberg, J. F., **Archibald, J. M.** & Worden, A. 2008. Widespread distribution of a unique protistan lineage. ***Env. Microbiol.*** 10, 1621-1634. *Role: Co-author.*

44. Lane, C. E. & **Archibald, J. M.** 2008. New members of the genus *Hemiselmis* (Cryptomonadales, Cryptophyceae). ***J. Phycol.*** 44, 339-450. *Role: Co-author.*

43. Phipps, K., Lane, C. E., Donaher, N. & **Archibald, J. M**. 2008. Nucleomorph genome karyotype diversity in the cryptophyte genus *Cryptomonas*. ***J. Phycol.*** 44, 11-14 *Role: Senior author.*

42. Fong, M. & **Archibald, J. M.** 2008. Evolutionary dynamics of light-independent protochlorophyllide oxidoreductase (LIPOR) genes in the secondary plastids of cryptophyte algae. ***Eukaryot. Cell.*** 7, 550-553. *Role: Senior author.*



41. Lane, C. E. & **Archibald, J. M.** 2008. The eukaryotic Tree of Life: endosymbiosis takes its TOL. ***Trends Ecol. Evol.*** 23, 268-275. *Role: PI, supervisor, co-author.* **COVER ARTICLE, 219 CITATIONS** IR

40. **Archibald, J. M.** 2008. The eocyte hypothesis and the origin of eukaryotic cells. ***Proc. Natl. Acad. Sci. USA*.** 51, 20049-20050. *Role: Primary author.* IC

39. Hoef-Emden, K. & **Archibald, J. M.** 2008. *Cryptophytes*. TREE OF LIFE web project. <http://tolweb.org/Cryptophytes/> (Invited web contribution) *Role: Senior author.* IC

38. **Archibald, J. M.** 2008 Genome evolution: remnant algal genes in ciliates. ***Curr. Biol.*** 18, R663-R665. *Role: Primary author.* IC

37. Keeling, P. J. & **Archibald, J. M.** 2008. Organelle evolution: What's in a name? ***Curr. Biol*.** 18, R345-R347. *Role: co-author.* IC

36. T. D., Koike, S., Yabuki, A., Kofuji, R., **Archibald, J. M.**, & Ishida, K.-I. 2007. Phylogeny and nucleomorph karyotype diversity of chlorarachniophyte algae. ***J. Euk. Microbiol*.** 54, 403-410. *Role: Senior author.*

35. Khan, H., Kozera, C., Curtis, B. A., Tarrant Bussey, J., Theophilou, S., Bowman, S., & **Archibald, J. M.** 2007. Retrotransposons and tandem repeat sequences in the nuclear genomes of cryptomonad algae. ***J.Mol. Evol*.** 64(2), 223-236. *Role: Senior author.*

34. Khan, H., Parks, N., Kozera, C., Curtis, B. A., Parsons, B., Bowman, S., & **Archibald, J. M.** 2007. Plastid genome sequence of the cryptophyte alga *Rhodomonas salina* CCMP1319: lateral transfer of putative DNA replication machinery and a test of chromist plastid phylogeny. ***Mol. Biol. Evol.*** 24, 1832-1842. *Role: Senior author.* **121 CITATIONS**

33. Lane, C. E., van den Heuvel, K., Kozera, C., Curtis, B. A., Parsons, B., Bowman, S., & **Archibald, J. M.** 2007. Nucleomorph genome of *Hemiselmis andersenii* reveals complete intron loss and compaction as a driver of protein structure and function. ***Proc. Natl. Acad. Sci. USA.*** 104, 19908-19913. *Role: Senior author.* **FACULTY OF 1000 BIOLOGY SELECTION. 183 CITATIONS**

32. Adl, S. M., Leander, B. S., Simpson, A. G. B., **Archibald, J. M.** and 16 other authors. 2007. Diversity, nomenclature, and taxonomy of protists. *Systematic Biol.* 56, 684-689. *Role: co-author.* **327 CITATIONS**

31. Bhattacharya, D., **Archibald, J. M.**, Weber, A. P. M., & Reyes-Prieto, A. 2007. How do endosymbionts become organelles? Understanding early events in plastid evolution. ***BioEssays*,** 29, 1239-1246 *Role: Co-author.* **185 CITATIONS IR**

30. **Archibald, J. M.** 2007. Nucleomorph genomes: structure, function, origin and evolution. ***BioEssays***, 4, 392-402. *Role: Primary author.* IR

29. **Archibald, J. M.** 2007. Review of *Genomics and evolution of microbial eukaryotes* (Katz and Bhattacharya eds.) *Q. Rev. Biol.* 82, 275-276. (Invited book review) *Role: Primary author.* IC

28. Ruiz-Trillo, I., Lane, C. E., **Archibald, J. M.** & Roger, A. J. 2006. Insights into the evolutionary origin and genome architecture of the unicellular opisthokonts *Capsaspora owczarzaki* and *Sphaeroforma arctica*. *J. Eukaryot. Microbiol*. 53(5) 379-384. *Role: Supervisor and co-author.*

27. Lane, C. E., Khan, H., MacKinnon, M., Fong, A., Theophilou, S. & **Archibald, J. M.** 2006. Insight into the diversity and evolution of the cryptomonad nucleomorph genome. ***Mol. Biol. Evol.*** 23, 856-865. *Role: Role: Senior author.*

26. Lane, C. E. & **Archibald, J. M**. 2006. Novel nucleomorph genome architecture in the cryptomonad genus *Hemiselmis*. ***J. Eukaryot. Microbiol.*** 53, 515-521. *Role: Senior author.*

25. **Archibald, J. M.** 2006. Genome complexity in a lean, mean photosynthetic machine. ***Proc. Natl. Acad. Sci. USA***, 103, 11433-11434. *Role: Primary author.* IC

24. **Archibald, J. M.** 2006. Algal genomics: exploring the imprint of endosymbiosis. ***Curr. Biol.***, 16, R1033-1035. *Role: Primary author.* IC

23. Bhattacharya, D. & **Archibald, J. M.** 2006. Response to Theissen and Martin: "The difference between endosymbionts and organelles". ***Curr. Biol.***, 16, R1017-R1018. *Role: Co-author.* IC

22. **Archibald, J. M.** 2006. Endosymbiosis: double-take on plastid origins. ***Curr. Biol.***, 16, R690-R692. *Role: Primary author.* IC

21. Patron, N. J., Waller, R. F., **Archibald, J. M.**, & Keeling, P. J. 2005. Complex protein targeting to dinoflagellate plastids. ***J. Mol. Biol.***, 348, 1015-1024. *Role: Co-author.* **176 CITATIONS**

20. Kim, J. C., Ou, Y. Y., Badano, J. L., Esmail, M. A., Leitch, C. C., Fiedrich, E., Beales, P. L., **Archibald, J. M.**, Katsanis, N., Rattner, J. B., & Leroux, M. R. 2005. MKKS/BBS6, a divergent chaperonin-like protein linked to the obesity disorder Bardet-Biedl syndrome, is a novel centrosomal component required for cytokinesis. ***J. Cell Sci.***, 118, 1007-1020. *Role: Co-author.* **200 CITATIONS**

19. **Archibald, J. M.** 2005. Jumping genes and shrinking genomes—probing the evolution of eukaryotic photosynthesis using genomics. *IUBMB Life*, 57, 539-547. *Role: Primary author.* **COVER ARTICLE** IR

18. **Archibald, J. M.** & Keeling, P. J. 2005. On the origin and evolution of plastids. In: *Microbial Evolution: Concepts and Controversies.* Sapp, J. (ed.). Oxford University Press, Oxford. Pp. 238-260. (Invited book chapter) *Role: Primary author.* IR

17. Rogers. M. B., **Archibald, J. M.**, Field, M. A., Li, C, Striepen, B. & Keeling, P. J. 2004. Plastid-targeting peptides from the chlorarachniophyte *Bigelowiella natans*. ***J. Eukaryot. Microbiol.***, 51, 529-535. *Role: Co-author.*

16. **Archibald, J. M.** & Keeling, P. J. 2004. Actin and ubiquitin protein sequences support a cercozoan / foraminiferan ancestry for the plasmodiophorid plant pathogens. ***J. Eukaryot. Microbiol*.**, 1, 113-118. *Role: Primary author.*

15. **Archibald, J. M.** & Keeling, P. J. 2004. The evolutionary history of plastids: a molecular phylogenetic perspective. In: *Organelles, Genomes and Eukaryote Phylogeny: An Evolutionary Synthesis in the Age of Genomics.* Hirt, R. P. & Horner, D. (eds.). Taylor & Francis Books, London. Pp. 55-74. (Invited book chapter) *Role: Primary author.* IR

14. Keeling, P. J., **Archibald, J. M.**, Fast, N. M., & Palmer, J. D. 2004. Comment on "The Evolution of Modern Eukaryotic Phytoplankton". ***Science***, 306, 2191. *Role: Co-author.* IC

13. **Archibald, J. M.**, Rogers, M., Toop, M., Ishida, K. & Keeling, P. J. 2003. Lateral gene transfer and the evolution of plastid-targeted proteins in the secondary plastid-containing alga *Bigelowiella natans*. ***Proc. Natl. Acad. Sci. USA*** 100, 7678-7683. *Role: Primary author.* **300 CITATIONS, 2 COMMENTARIES**

12. **Archibald, J. M.**, Teh, E. M. & Keeling, P. J. 2003. Novel ubiquitin fusion proteins: ribosomal protein P1 and actin. ***J. Mol. Biol*.** 328, 771-778. *Role: Primary author.*

11. **Archibald, J. M.,** Longet, D., Pawlowski, J. & Keeling, P. J. 2003. A novel polyubiquitin structure in Cercozoa and Foraminifera: evidence for a new eukaryotic supergroup. ***Mol. Biol. Evol*.** 20, 62-66. *Role: Primary author.*

10. Longet, D., **Archibald, J. M.**, Keeling, P. J., & Pawlowski, J. 2003. Foraminifera and Cercozoa share a common origin according to RNA polymerase II phylogenies. ***Int. J. Syst. Evol. Microbiol*.** 53, 1735-1739. *Role: co-author.*

9. **Archibald, J. M.** & Keeling, P. J. 2003. Plant genomes: cyanobacterial genes revealed. ***Heredity*** 90, 2-3. *Role: Primary author.* IC

8. **Archibald, J. M.** & Roger, A. J. 2002. Gene conversion and the evolution of euryarchaeal chaperonins: a maximum likelihood-based method for detecting conflicting phylogenetic signal. ***J. Mol. Evol*.** 55, 232-245. *Role: Primary author*

7. **Archibald, J. M.** & Roger, A. J. 2002. Gene duplication and gene conversion shape the evolution of archaeal chaperonins. ***J. Mol. Biol*.** 316, 1041-1050. *Role: Primary author.*

6. **Archibald, J. M.**, O'Kelly, C. J. & Doolittle, W. F. 2002. The chaperonin genes of jakobid and jakobid-like flagellates: implications for eukaryotic evolution. ***Mol. Biol. Evol*.** 19, 422-431. *Role: Primary author.*

5. **Archibald, J. M**., & Keeling, P. J. 2002. Recycled plastids: a green movement in eukaryotic evolution. ***Trends. Genet.*** 18, 577-584. *Role: Primary author.* **290 CITATIONS** IR

4. **Archibald, J. M.**, Blouin, C. & Doolittle, W. F. 2001. Gene duplication and the evolution of group II chaperonins: implications for structure and function**. *J. Struct. Biol.*** 135, 157-169. *Role: Primary author.*

3. **Archibald, J. M.**, Cavalier-Smith, T., Maier, U.-G. & Douglas, S. 2001. Molecular chaperones encoded by a reduced eukaryotic nucleus: the cryptomonad nucleomorph. ***J. Mol. Evol.*** 52: 490-501. *Role: Primary author.*

2. **Archibald, J. M.**, Logsdon, J. M. Jr. & Doolittle, W. F. 2000. Origin and evolution of eukaryotic chaperonins: phylogenetic evidence for ancient duplications in CCT genes. ***Mol. Biol. Evol.*** 17, 1456-1466. *Role: Primary author.*

1. **Archibald, J. M.**, Logsdon, J. M. Jr. & Doolittle, W. F. 1999. Recurrent paralogy in the evolution of archaeal chaperonins. ***Curr. Biol.*** 9, 1053-1056. *Role: Primary author.* **120 CITATIONS**

Edited works:

Handbook of the Protists (2nd edition of the Handbook of Protoctista by Margulis et al.). 2017. **Archibald, J. M.**, Simpson, A.G.B, & Slamovits, C. (Eds.). Springer. (Invited editorship). *Role: Editor-in-Chief.*

Books:

Archibald, J. M. 2018. Genomics: a very short introduction. *Oxford University Press (VSI Series).* 160 pp. ISBN: 978-0-19-878620-7.

Archibald, J. M. 2016. One plus one equals one: symbiosis and the evolution of complex life. *Oxford University Press.* 224 pp. ISBN: 978-0-19-966059-9. (*Paperback with new Afterward*)

Archibald, J. M. 2014. One plus one equals one: symbiosis and the evolution of complex life. *Oxford University Press.* 224 pp. ISBN: 978-0-19-875812-9. **128 CITATIONS**

> Reviewed in ***Nature*** (Moran N.A. 2014 Nature 510, 338-339), ***Current Biology*** (Saffo, M.B. 2015 Curr. Biol. 25, R100-R102), ***Biology & Philosophy*** (O'Malley, M. 2015 Biol. Phil.), ***BioScience*** (van der Giezen, M. 2015 BioScience doi:10.1093/biosci/biv096), and **Reports of the National Center for Science Education** (Spath, S. 2015. RNCSE 35.3, 9.1)

THESES

Archibald, J. M. 2001. Studies on the evolution of archaeal and eukaryotic chaperonins. Ph.D. dissertation, Department of Biochemistry & Molecular Biology, Dalhousie University. Halifax, Nova Scotia. xii + 220p. (Prof. W. F. Doolittle, thesis supervisor).

Archibald, J. M. 1997. Fertilization and zygote viability differences among combinations of distinct mitochondrial genomes in *Mytilus.* B.Sc. Honours thesis, Biology Department, Dalhousie University. Halifax, Nova Scotia. vii + 43p. (Prof. E. Zouros, thesis supervisor).

MEETING PRESENTATIONS AND PUBLISHED ABSTRACTS (*presenter, trainees underlined)

Latimer, J.*, O'Regan, P., Mir, R., Paris, J., Kulish, Y., Bjorndahl, P., Dunn, K.A., **Archibald, J. M.**, & Bielawski, J.P. 2024. By, with, and for: lessons from co-creating science and science communication. Association of Atlantic Universities Teaching Showcase, November 2nd, Acadia University, Canada. (talk)

Zhang, X.*, Cheng, Z., & **Archibald, J. M.** 2024. Bioinformatics tools for comparative genomics analysis of highly similar duplicates data in eukaryotes. Intelligent Systems for Molecular Biology 2024, July 12-16, Montreal, Canada. (Virtual talk)

Collier*, J.L., Rest, J.S., Matar, S., Chung, D., Pringle, E., Gallot-Lavallée, L., McCormick, C., and **Archibald, J. M.** 2024. Endogenous mirusvirus-like genomes of the thraustochytrid protist *Aurantiochytrium*

limacinum produce virions and respond differently to growth conditions. 2024 PSA-ISOP-ISEP Joint Meeting, Seattle, WA. (talk)

Chung*, D., Matar, S., and **Archibald, J. M.** 2023. CRISPR-Cas9 gene editing in the heterotrophic protist *Acanthamoeba castellanii*. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Sibbald*, S. J., Maclean, C., Lawton, M., Roger, A. J., and **Archibald, J. M.** 2023. The pan-genome concept and strain level variation in microbial eukaryotes: insights from pelagophyte algae. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Matar*, S., Chung, D., Gallot-Lavallée, L., Rest, J. S., Collier, J. L., and **Archibald, J. M.** 2023. Evidence for mirusviruses in the thraustochytrid protist *Aurantiochytrium limacinum*. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Tymoshenko*, D., Zhang, X., McCracken, G. R., Dlutek, M., Dibernardo, A., Loomer, C., Ogden, N., LeBlanc, J. J., Hatchette, T., Stringer, E., & **Archibald, J. M.** 2023. Comparative genomics of Lyme Disease agent *Borrelia burgdorferi* in Nova Scotia. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Sangster, S., Phelan, E., Chung, D., Dunn, K., Kantor E., Mastrangelo, B., Baldwin, I., Barkhouse, K., Blais, C., Brask, N., Breglia, S., Haro, R., Hosmer, M., Maclean, C., Madaan, A., Martijn, J., Matar, S., MacMillan, N., McCarthy, C., Mora Collazos, A., Myles, S., Roberts, M., Rowland, E., Shao, J., Stevens-Green, R., Tymoshenko, D., Weston, L., Zhao, D., Comeau, A. M., Dlutek, M., Rohde, J. R., Roger, A. J., Sterling, S. M., Slamovits, C. H., Westwood, A. R., Bertrand, E. M., LaRoche, J., Langille, M. G. I., Simpson, A. G. B., **Archibald*, J. M.** 2023. Microbial biodiversity at the Harrison Lewis Coastal Discovery Centre (Nova Scotia, Canada). Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Gallot-Lavallée, L.*, Collier, J. L., Rest, J.S., Lavington, E., Kuo, A., Jenkins, J., Pangilinan, J., Daum, C., Grigoriev, I. V., Filloramo, G. F., Curtis, B. A., Novák Vanclová, A. M. G., Plott, C., **Archibald, J. M.** 2023. Stand-alone and integrated 'Mirusviricota'-like genomic elements in a thraustochytrid protist. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Hosmer*, M., Filloramo, G. V., Curtis, B. A., **Archibald, J. M.**, & Rohde, J. R. 2023. *Caballeronia guntew*, a novel forest soil-dwelling bacterium with a complex genome architecture. Institute for Comparative Genomics, Biodiversity Symposium, Dalhousie University, Nova Scotia, Canada. (poster)

Tymoshenko*, D., Filloramo, G. V., Gallot-Lavallée, L., Fennessy, E., Spinney, K., Dlutek, M., Zhang, X., Comeau, A. M., Langille, M. G., & **Archibald, J. M.** 2023. Genomic and metagenomic investigation of the *in vitro* microbiome of *Paramoeba* spp. Canadian Society of Microbiologists, Annual Meeting, Dalhousie University, Nova Scotia, Canada. (poster)

Gallot-Lavallée, L.*, Collier, J. L., Rest, J.S., Lavington, E., Kuo, A., Jenkins, J., Pangilinan, J., Daum, C., Grigoriev, I. V., Filloramo, G. F., Curtis, B. A., Novák Vanclová, A. M. G., Plott, C., **Archibald, J. M.** 2023. Stand-alone and integrated 'Mirusviricota'-like genomic elements in a thraustochytrid protist. 11th Aquatic Virus Workshop, Québec, Canada. (poster)

Blais*, C., Colp, M. J., Wuotila, J., **Archibald, J. M.** 2023. Sub-telomeric regions in *Acanthamoeba* genomes: viral gene graveyards or springboards for integration? 11th Aquatic Virus Workshop, Québec, Canada (May 23-27). (oral presentation).

Gallot-Lavallée*,L., J.L. Collier, J.S. Rest, E. Lavington, A. Kuo, J. Jenkins, J. Pangilinan, C. Daum, I. V. Grigoriev, G. F. Filloramo, B. A. Curtis, Anna M. G. Novák Vanclová, & **Archibald, J. M. .** 2023. Stand-alone and integrated 'Mirusviricota'-like genomic elements in a thraustochytrid protist. Canadian Society of Microbiologists, Annual Meeting, Dalhousie University, Nova Scotia, Canada. (poster)

Zhang, X.* & **Archibald, J. M.** 2022. Don't waste it: tidy up your bioinformatics work into appropriate publications. Bioinformatics Community Conference, Madison, Wisconsin, USA. (Virtual talk)

Colp, M. J.*, Matthey-Doret, C., Blais, C., Escoll, P., Thierry, A., Morreau, P., Curtis, B. A., Sahr, T., Sarrasin, M., Gray, M. W., Lang, B. F., Buchrieser, C., Koszul, R., & **Archibald, J. M.** 2022. A new, high quality *Acanthamoeba castellanii* reference genome sequence for studying foreign DNA acquisition. EMBO workshop on comparative genomics of unicellular eukaryotes: Interactions and symbioses, Spain. (Poster)

Zhang, X.* & **Archibald, J. M.** 2022. Using bioinformatics tools to analyze, categorize and visualize highly similar duplicates in eukaryotic genomes. Microbial Genome Diversity Workshop, Halifax, NS, Canada. (Poster)

Kim*, J. I., Jo, B. Y., Park, M. G., Yoo, Y. D., Shin, W., & **Archibald, J. M.** 2022. Evolutionary history of Raphidophyceae plastid genomes via lateral gene transfer. International Seaweeds Symposium, Korea. (poster)

Filloramo*, G. V., Comeau, A. M., Fennessy, E., Gallot-Lavallee, L., Spinney, K., Dlutek, M., **Archibald, J. M.** , Morgan G Langille. 2022. Integrated Microbiome Resource: recent advances in microbiome sequencing & bioinformatics. Cold Spring Harbor Laboratories, Microbiome Symposium, New York. (poster)

Sibbald*, S. J., Lawton, M., Roger, A.J., & **Archibald, J. M.** 2021. Insight into pelagophytes: novel algal genomes and strain level genome variation in the harmful algal bloom-causing species *Aureococcus anophagefferens.* International Phycological Congress, Chile. (virtual talk)

Sibbald*, S. J., Lawton, M., Roger, A.J., & **Archibald, J. M.** 2021. Insight into pelagophytes: novel algal genomes and strain level genome variation in the harmful algal bloom-causing species *Aureococcus anophagefferens.* Annual Meeting of the International Society for Molecular Biology & Evolution, Manchester, UK. (virtual poster)

Gallot-Lavallée*, L., Jerlström-Hultqvist, J., Stairs, C.W., Cepicka, I., Roger, A.J. & **Archibald, J. M.** 2019. Massive, unprecedented intein content in two *Anaeramoeba* genomes reveals new aspects of intein mobility in eukaryotes. Annual Meeting of the International Society for Molecular Biology & Evolution, Manchester, UK. (poster)

Gallot-Lavallée*, L., Jerlström-Hultqvist, J., Stairs, C.W., Cepicka, I., Roger, A.J. & **Archibald, J. M.** 2019. Massive, unprecedented intein content in two *Anaeramoeba* genomes reveals new aspects of intein mobility in eukaryotes. VIII ECOP - ISOP joint meeting, Rome, Italy. (talk)

Gallot-Lavallée*, L., Blanc, G., Roger, A.J. & **Archibald, J. M.** 2019. Bioinformatic analysis of *Halocafeteria seosinensis* virophages and Polinton-like elements. Halifax Marine Microbes Mini Symposium, Halifax, Canada. (talk)

Sibbald*, S. J., Roger, A.J., & **Archibald, J. M.** 2019. Oxford Nanopore sequencing and eukaryotic pan-genomes – strain level genome variation in the harmful algal bloom causing species *Aureococcus anophagefferens.* Annual Meeting of the International Society for Molecular Biology & Evolution, Manchester, UK. (talk)

Sibbald*, S. J., Roger, A.J., & **Archibald, J. M.** 2019. Oxford Nanopore sequencing and eukaryotic pan-genomes – strain level genome variation in the harmful algal bloom causing species *Aureococcus anophagefferens.* Halifax Marine Microbes Mini Symposium, Halifax, Canada. (talk)

Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2019. Fine-scale genomic investigation reveals long terminal repeat retrotransposon activity in the marine diatom *Phaeodactlyum tricornutum.* Annual Meeting of the International Society for Molecular Biology & Evolution, Manchester, UK. (talk and poster)

Colp*, M.J., Curtis, B.A. & **Archibald, J. M.** 2019. Nanopore sequencing of the *Acanthamoeba castellanii* genome: toward a model for eukaryote lateral gene transfer. SMBE, Manchester, UK. (talk)

Colp*, M.J., Curtis, B.A. & **Archibald, J. M.** 2019. Development of an experimental model for studying lateral gene transfer in eukaryotes. PREP Graduate Student Research Day, Halifax, Canada. (poster)

Sibbald*, S.J. & **Archibald, J. M.** 2018. A genomic investigation of the plastid-lacking cryptomonad Goniomonas avonlea: insights into the evolution of complex plastids and Cryptista. International Society of Protistologists / Phycological Society of America, Vancouver, Canada. (talk)

de Vries*, J., Curtis, B.A., Gould, S.B. & **Archibald, J. M.** 2018. Early plant evolution: stress signalling circuits in the algal ancestors of land plants. Plant Biology 2018: Montreal, Canada. (poster)

de Vries*, J., Curtis, B.A., Gould, S.B. & **Archibald, J. M.** 2018. Signatures of embryophytic stress signaling circuits in the algal progenitors of land plants. EMBO Workshop: New shores in land plant evolution: Lisbon, Portugal. (poster)

de Vries*, J., Curtis, B.A., Gould, S.B. & **Archibald, J. M.** 2018. Early plant evolution: stress signalling circuits in the algal ancestors of land plants. Plant Biology 2018: Montreal, Canada. (talk)

de Vries*, J., Curtis, B.A., Gould, S.B. & **Archibald, J. M.** 2018. Plastid-mediated stress response signalling in the algal progenitors of land plants. International Plant and Animal Genome Conference XXVI: San Diego, CA, USA. (talk)

Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. Exploring Lateral Gene transfer: implications for transformation protocols. MMI Experimental Model Systems virtual convention VIII. (talk)

Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. Fine-scale genomic investigation reveals long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum.* CRC 1182 Junior Researchers Training Workshop, Kiel, Germany. (talk)

Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. Fine-scale genomic investigation reveals long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum.* CIFAR Integrated Microbial Biodiversity Program meeting, Alberta, Canada. (talk)

Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. An investigation of long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum*. CIFAR Integrated Microbial Biodiversity Program meeting, Alberta, Canada. (poster)

Filloramo*, G.V., Curtis, B.A. & **Archibald, J. M.** 2018. Fine-scale genomic investigation reveals long terminal repeat retrotransposon activity in the marine diatom *Phaeodactylum tricornutum.* Phycological Society of America-International Society of Protistologists joint conference, Vancouver, Canada. (talk)

Colp*, M. J., Curtis, B. A., & **Archibald, J. M.** 2018. An experimental model for studying lateral gene transfer in eukaryotes. PSA/ISOP Joint Annual Meeting, Vancouver, Canada. (talk)

Colp*, M. J., Curtis, B. A., & **Archibald, J. M.** 2018. Development of an experimental model for studying lateral gene transfer in eukaryotes. Canadian Institute for Advanced Research (CIFAR) Integrated Microbial Biodiversity Conference, Banff, Canada. (poster)

Colp*, M. & **Archibald, J. M.** 2018. An experimental model for studying lateral gene transfer in eukaryotes. CRC1182 Junior Researchers Training Workshop, Kiel, Germany. (talk)

Gallot-Lavallée*, L., Blanc, G., Roger, A.J. & **Archibald, J. M.** 2018. “Endosymbiotic" virophages and protist immunity: bioinformatic analysis of *Halocafetaria seosinensis* virophages. CRC 1182 Junior Researchers Training Workshop, Kiel, Germany. (talk)

Curtis*, B.A., Sibbald, S. J., Colp, M., Filloramo, G.V. **Archibald, J. M.** 2018. Intergenerational Sequencing for Genomics. Illumina User Group Meeting, Halifax, Canada. (talk)

Kim, J.I., Shin, H., Skaloud, P., Jung, J., Yoon, H., **Archibald, J. M.** and Shin, W. 2018. Comparative Plastid Genomics of *Synurophyceae*: Evolution via Lateral Gene Transfer and Inverted Repeat Dynamics. The 5th joint meeting of the Phycological Society of America & International Society of Protistologists. Vancouver, Canada. (talk)

Kim, J.I., Yoon, H., Yi, G., **Archibald, J. M.** and Shin, W. 2018. Evolutionary dynamics of cryptophyte mitochondrial genomes: gene rearrangements and mobile genetic elements. Joint meeting of the Korean Society of Protistologists and Japan Society of Protistology. Jeju, Korea. (talk)

de Vries*, J., Gould, S. B., Rensing, S. A. & **Archibald, J. M.** 2017. How Plastids Shaped (Land) Plant Genomes and Physiology. International Botanical Congress XIX, Shenzhen, China. (talk)

de Vries*, J., Curtis, B. A., Gould, S. B. & **Archibald, J. M.** 2017. Plastid-nucleus communication and stress response signaling in land plants' closest algal relatives. 18th Annual Meeting of the International Society of Endocytobiology, Konstanz, Germany (talk)

Åsman, A., Curtis, B. A. & **Archibald, J. M.** 2017. Evolution of gene regulation in nature’s smallest nuclear genomes. EMBO / EMBL symposium. The Non-coding genome, Heidelberg, Germany. (poster)

Åsman*, A., Curtis, B.A. & **Archibald, J. M.** 2017. Evolution of gene regulation in nature’s smallest nuclear genomes. ICOP (15th International Congress of Protistology), Prague, Czech Republic. (poster)

Colp*, M., Muñoz-Gómez, S.A., Mejía-Franco, F.G., Durnin, K., Grisdale, C. J., **Archibald, J. M.** & Slamovits, C. 2017. The plastid genomes of early-branching rhodophyte algae reveal unprecedented levels of self-

splicing intron proliferation. ICOP (15th International Congress of Protistology), Prague, Czech Republic. (poster)

de Vries*, J., Curtis, B. A., Gould, S. B. & **Archibald, J. M.** 2017. Streptophyte algal stress response and the evolution of nuclear control over plastid function. CIFAR Integrated Microbial Biodiversity Program, Whistler, BC, Canada. (poster)

Sibbald*, S. J., Cenci, U., Eme, L., Kim, E., & **Archibald, J. M.** 2017. Pinpointing the acquisition of complex red algal plastids in Cryptophyta. International Phycological Society Congress, Szczecin, Poland. (talk)

David*, V., Tanifuji, G., Moog, D. & **Archibald, J. M.** 2017. *Perkinsela sp*., the amoeba-dwelling kinetoplastid endosymbiont. ICOP (15th International Congress of Protistology), Prague, Czech Republic. (talk)

de Vries*, J., Curtis, B. A., Gould, S. B. & **Archibald, J. M.** 2017. Streptophyte algal stress response signaling and the origin of land plant plastid-nucleus communication. Botanikertagung 2017 (International Conference on Plant Sciences under the umbrella of the German Botanical Society), Kiel, Germany. (poster)

David*, V., Tanifuji, G. & **Archibald, J. M.** 2016. Genome(s) of kinetoplastid protist *Perkinsela sp.* and its host *Paramoeba pemaquidensis*. 46th Jirovec's Protozoological Days (Czech Society for Parasitology), Czech Republic. (talk)

Sibbald*, S. J., Cenci, U., O'Kelly, C., & **Archibald, J. M.** 2016. Diversity and evolution of *Neoparamoeba* species and their kinetoplastid endosymbionts. Canadian Institute for Advanced Research (CIFAR) Integrated Microbial Biodiversity Conference, Toronto, Canada. (poster)

Moog*, D., & **Archibald, J. M.** 2015. A reduced glycosome in the kinetoplastid endosymbiont of parasitic *Paramoeba* species? Annual meeting of the International Society of Endocytobiology (ISE-G). (talk)

Moog*, D., & **Archibald, J. M.** 2015. Genomic insights into *Paramoeba* species and their kinetoplastid endosymbionts. Black Forest Summer School in Bioinformatics. (talk)

Moog*, D., Curtis, B.A., Tanifuji, G., Dlutek, M., & **Archibald, J. M.** 2015. Genomic insights into *Paramoeba invadens* and its kinetoplastid endosymbionts. Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Victoria, British Columbia. (poster)

Cenci*, U., & **Archibald, J. M.** 2015. Complete nuclear genome sequence of *Goniomonas avonlea*, a plastid-lacking cryptomonad. International Society of Protistologists/VII European Congress of Protistology, Seville, Spain. (talk)

Grisdale*, C. J., & **Archibald, J. M.** 2015) Alternative splicing and the evolution of chlorarachniophyte algae. International Society of Protistologists/VII European Congress of Protistology, Seville, Spain. (talk)

Sibbald*, S., Cenci, U., O'Kelly, C., & **Archibald, J. M.** 2015. Diversity and evolution of *Neoparamoeba* species and their kinetoplastid endosymbionts. International Society of Protistologists/VII European Congress of Protistology, Seville, Spain. (poster)

Moog*, D. & **Archibald, J. M.** 2015. Genomic insights into *Paramoeba* spp. And their kinetoplastid endosymbionts. Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Victoria, British Columbia. (talk)

Cenci*, U. & **Archibald, J. M.** 2014. Genomic investigation of metabolic links between *Paramoeba pemaquidensis* and its kinetoplastid endosymbiont. Dalhousie-CAU-Kiel Workshop on Evolutionary Genomics of Symbiosis, Dalhousie University. (talk)

Gile, G.*, & **Archibald, J. M.** 2014. Aminoacyl tRNA synthetase gene sharing in complex algae. Dalhousie-CAU-Kiel Workshop on Evolutionary Genomics of Symbiosis, Dalhousie University. (talk)

Cenci*, U. & **Archibald, J. M.** 2014. Genomic investigation of metabolic links between *Paramoeba pemaquidensis* and its kinetoplastid endosymbiont. Protist 2014 (Annual Meeting of the International Society for Evolutionary Protistology), Banff, Canada. (talk)

Moog*, D., Curtis, B.A. & **Archibald, J. M.** 2014. Genomic insights into *Paramoeba invadens* and its kinetoplastid endosymbiont. Protist 2014 (Annual Meeting of the International Society for Evolutionary Protistology), Banff, Canada. (poster)

Sibbald*, S., Cenci, U., Eglit, Y., O'Kelly, C.J. & **Archibald, J. M.** 2014. Diversity and evolution of Paramoeba species and their kinetoplastid endosymbionts. Protist 2014 (Annual Meeting of the International Society for Evolutionary Protistology), Banff, Canada. (poster)

Martin*, L., Curtis, B.A., Dlutek, M. & **Archibald, J. M.** 2014. Comparative genomics of cryptophyte and chlorarachniophyte algae. Protist 2014 (Annual Meeting of the International Society for Evolutionary Protistology), Banff, Canada. (poster)

Cenci*, U. & **Archibald, J. M.** 2014. Genomic investigation of metabolic links between *Neoparamoeba pemaquidensis* and its kinetoplastid endosymbiont. Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Czech Academy of Sciences, Czech Republic. (poster)

Gruber*, A. & **Archibald, J. M.** 2013. Occurrence and significance of C-terminal targeting motifs in organisms with secondary plastids. 12th International Colloquium on Endocytobiology and Symbiosis, Halifax, Nova Scotia. (talk)

Tanifuji*, G. & **Archibald, J. M.** 2013. Genome and transcriptome analyses of *Neoparamoeba pemaquidensis* and its kinetoplastid endosymbiont. 12th International Colloquium on Endocytobiology and Symbiosis, Halifax, Nova Scotia. (talk)

Tanifuji*, G. & **Archibald, J. M.** 2013. Genome and transcriptome analyses of the kinetoplastid endosymbiont of *Neoparamoeba pemaquidensis* (Amoebozoa). Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Whistler, British Columbia, Canada. (talk)

Curtis*, B. & **Archibald, J. M.** 2012. Cryptophyte and chlorarachniophyte nuclear genomes reveal evolutionary mosaicism and fate of nucleomorphs. Annual Meeting of the Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity, Quebec City, Canada. (talk)

Tanifuji*, G. & **Archibald, J. M.** 2012. Genomics-enabled insight into the periplastidial compartments of cryptophyte and chlorarachniophyte algae, Protist 2012 (Annual Meeting of the International Society for Evolutionary Protistology), Oslo, Norway. (talk)

Tanifuji*, G., Onodera, N. T., Moore, C. E., Hopkins J. & **Archibald, J. M.** 2012. Comparative analysis of

nuclear and nucleomorph gene expression in cryptomonad and chlorarachniophyte algae. (Annual Meeting of the International Society for Evolutionary Protistology), Oslo, Norway. (poster)

Maruyama*, S. & **Archibald, J. M.** 2012. Green and red algal phylogenetic signals in nuclear genes shared by eukaryotes bearing secondary plastids of green algal origin: looking beyond endosymbiotic versus lateral gene transfer. 20th Annual Meeting of the Society for Molecular Biology and Evolution, Dublin, Ireland. (poster)

Moore*, C. & **Archibald, J. M.** 2012. Nucleomorph genome sequence of the cryptophyte alga *Chroomonas mesostigmatica* reveals lineage-specific gene loss and genome complexity. 20th Annual Meeting of the Society for Molecular Biology and Evolution, Dublin, Ireland. (poster)

Nakayama*, T., Ishida, K. & **Archibald, J. M.** 2012. Broad distribution of TPI-GAPDH fusion proteins among eukaryotes: evidence for glycolysis in the mitochondrion? Protist2012 (Annual Meeting of the International Society for Evolutionary Protistology), Oslo, Norway. (talk)

Moore*, C. & **Archibald, J. M.** 2011. A small genome that 'thinks big': The complete nucleomorph genome of the cryptophyte alga *Chroomonas*. Joint meeting of the International Society of Protozoologists and the Phycological Society of America, Seattle, USA. (talk)

Tanifuji*, G & **Archibald, J. M.** 2011. Comparative analysis of nucleomorph and nuclear genomes in cryptophytes and chlorarachniophytes. Maritime Protistologists Meeting. Halifax, Canada. (talk)

Tanifuji*, G., Kim, E., Onodera, N. T., Gibeault, R., Dlutek, M., Cawthorn, R. J., Fiala, I., Lukeš, J., Greenwood S. J., & **Archibald, J. M.** 2011 Genomic characterization of *Neoparamoeba pemaquidensis* (Amoebozoa) and its kinetoplastid endosymbiont, 19th Annual Meeting of the Society for Molecular Biology and Evolution, Kyoto, Japan. (poster).

Tanifuji*, G. **Archibald, J. M.** Examples for the study of genomes. 2011. Special seminar in department of anatomy, Iwate Medical University, Iwate, Japan (talk).

Kim*, E. & **Archibald, J. M.** 2011. RNA-Seq Data. *Guillardia theta* and *Bigelowiella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)

Curtis*, B. E. & **Archibald, J. M.** 2011. Endosymbiotic gene transfer, endosymbiotic gene replacement and genome / proteome mosaicism. *Guillardia theta* and *Bigelowiella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)

Hopkins*, J. F. & **Archibald, J. M.** 2011. Proteomic investigation of plastid / PPC proteins in *B. natans*. *Guillardia theta* and *Bigelowiella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)

Tanifuji*, G. & **Archibald, J. M.** 2011. Comparative analysis of nucleomorph and nuclear genomes: investigation of the plastid and PPC proteomes. *Guillardia theta* and *Bigelowiella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)

Maruyama*, S. & Archibald, J. M. 2011. Sex-determining locus in *G. theta*. *Guillardia theta* and *Bigelowiella natans* Genome Jamboree. DOE Joint Genome Institute, Walnut Creek, California (talk)

Hopkins*, J. F., Spencer, D. F., Gray, M. W. & **Archibald, J. M.** 2010. Proteomics reveals complex evolution of plastid- and nucleomorph-targeted proteins in the chlorarachniophyte *Bigelowiella*. 18th Annual

Meeting of the Society for Molecular Biology and Evolution. Lyon, France. (talk)

Moore*, C. & **Archibald, J. M.** 2010. Small genomes, big questions: genome reduction as revealed by the 'large' nucleomorph genome of the cryptophyte alga *Chroomonas*. 18th Annual Meeting of the Society for Molecular Biology and Evolution. Lyon, France. (talk)

Maruyama*, S. Sugahara, J. **Archibald, J. M.**, Kanai, A. & Nozaki, H. 2010. Duplication, rearrangement and invention of novel tRNA genes in the nuclear and nucleomorph genomes of photosynthetic eukaryotes. 18th Annual Meeting of the Society for Molecular Biology and Evolution. Lyon, France. (poster)

Kim, E., Park, J. S., Simpson, A. G. B., Matsunaga, S., Watanabe, M., Murakami, A., Sommerfeld, K., Onodera, N. T. & **Archibald, J. M.** 2010. Complex array of endobionts in *Petalomonas sphagnophila*, a large heterotrophic euglenid protist from *Sphagnum*-dominated peatlands. 13th International Symposium on Microbial Ecology. Seattle, Washington. (poster)

Kim*, E. & **Archibald, J. M.** 2010. Evolution and ecology of uncultured eukaryotic microbes. Fourth Annual Meeting of the Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program. Seattle, Washington. (talk)

Archibald*, J. M. 2009. Endosymbiotic gene transfer and genome evolution in secondary plastid-containing algae: insights from cryptophytes and chlorarachniophytes. *Phycologia* 48, 4-5.

Donaher*, N. & **Archibald, J. M.** 2009. The complete plastid genome sequence of the secondarily non-photosynthetic alga *Cryptomonas paramecium* 977/2a. Atlantic Omics Symposium, Moncton New Brunswick. (talk)

Eveleigh*, R., **Archibald, J. M.**, & Beiko*, R. G. 2009. Being *Aquifex aeolicus*: untangling a hyperthermophile's checkered past. Third Annual Meeting of the Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program. Asilomar, California. (poster)

Moore*, C. & **Archibald, J. M.** 2009. 454 pyrosequencing the nucleomorph genome of *Chroomonas mesostigmatica* CCAP1168: introns, synteny and gene density. Third Annual Meeting of the Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program. Asilomar, California. (poster)

Eveleigh*, R., **Archibald, J. M.** , & Beiko*, R. G. 2009. Being *Aquifex aeolicus*: untangling a hyperthermophile's checkered past. 17th Annual Meeting of the Society for Molecular Biology and Evolution. Iowa City, Iowa. (poster)

Donaher*, N., Lane, C. E., Malfatti, S. A., Chain, P. S. G., & **Archibald, J. M.** 2008. Pyrosequencing the A+T-rich nucleomorph genomes of the cryptophyte algae *Rhodomonas* sp. 1178 and *Cryptomonas paramecium*: insight into the pattern and process of nuclear genome reduction. Joint Annual meetings of the International Society for Evolutionary Protistology and the International Society of Protozoologists. Halifax, NS, Canada. (talk)

Horak*, A., Slamovits, C., Lane, C. E., Patron, N. J., **Archibald, J. M.** & Keeling, P. J. 2008. Comparative functional genomics of nucleomorphs. Joint Annual meetings of the International Society for Evolutionary Protistology and the International Society of Protozoologists. Halifax, NS, Canada. (poster)

Silver*, T. D. & **Archibald, J. M.** 2008. Chlorarachniophyte nucleomorphs: big surprises from small genomes. Joint Annual meetings of the International Society for Evolutionary Protistology and the International Society of Protozoologists. Halifax, NS, Canada. (poster)

Lane*, C. E. & **Archibald, J. M.** 2008. Origin and evolution of the cryptophyte nucleomorph proteome. Joint Annual meetings of the International Society for Evolutionary Protistology and the International Society of Protozoologists. Halifax, NS, Canada. (talk)

Donaher*, N. A., Lane, C. E., Malfatti, S. A., Chain, P. S. G. & **Archibald*, J. M.** 2008. Pyrosequencing the A+T-rich nucleomorph genomes of the cryptophyte algae *Rhodomonas* sp. 1178 and *Cryptomonas* paramecium: Insight into the pattern and process of nuclear genome reduction. 16th Annual Meeting of the Society for Molecular Biology and Evolution. Barcelona, Spain. (poster)

Archibald*, J. M., Gray, M. W., Keeling, P. J., McFadden, G. I. & Lane, C. E. 2007. Impact of secondary endosymbiosis on genome evolution and cell biology: A cryptomonad and a chlorarachniophyte nuclear genome. Third Annual DOE Joint Genome Institute User Meeting, Walnut Creek, California. (poster)

Kim*, E., Lane, C. E. & **Archibald, J. M.** 2007. Complete sequence and analysis of the mitochondrial genome of *Hemiselmis andersenii* CCMP644 (Cryptophyceae). Maritimes Protistology Conference. Halifax, NS, Canada. (talk)

Donaher*, N. A., Lane, C. E., **Archibald, J. M.** 2007 Preliminary analysis of the nucleomorph genome of the cryptomonad *Cryptomonas paramecium.* Maritimes Protistology Conference. Halifax, NS, Canada. (talk)

Khan*, H. & **Archibald, J. M.** 2007. Introns within introns within introns: repeated lateral transfer and recent transposition of mobile introns in the plastid genomes of cryptomonads. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)

Silver*, T. D. & **Archibald, J. M.** 2007. Chlorarachniophyte nucleomorph genome diversity and the anomalous Unid. sp. CCMP622. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)

Silver*, T. D., Koike, S., Yabuki, A., Kofuji, R., Ishida, K.-I.& **Archibald, J. M.** 2007. Chlorarachniophyte nucleomorph genome diversity and the anomalous Unid. sp. CCMP622. 15th Annual Meeting of the Society for Molecular Biology and Evolution. Halifax, Nova Scotia. (poster)

Silver*, T. D. & **Archibald, J. M.** 2007. CCMP622 Unid. sp.- a chlorarachniophyte alga with a 'large' nucleomorph genome. 46th Annual Northeast Algal Symposium. Narragansett, Rhode Island, USA. (talk)

Donaher*, N. A., Lane, C. E., **Archibald, J. M.** 2007 Preliminary study of the *Cryptomonas paramecium* nucleomorph genome. Annual meeting for the Northeast Algal Society, Narragansett, Rhode Island, USA. (talk)

Donaher*, N. A., Lane, C. E., **Archibald, J. M.** 2007 Investigating the tiny nucleomorph genome of the cryptomonad *Cryptomonas paramecium.* 15th Annual Meeting of the Society for Molecular Biology and Evolution, Halifax, Nova Scotia, Canada. (poster)

Kim*, E., Lane, C. E. & **Archibald, J. M.** 2007. Complete sequence and analysis of the mitochondrial genome of *Hemiselmis andersenii* CCMP644 (Cryptophyceae). Phycological Society of America Annual Meeting, Providence, Rhode Island. (talk)

Lane*, C. E., van den Heuvel, K., Curtis, B., Fong, A., Kozera, C., Parsons, B., Bowman, S. and **Archibald, J. M.** 2007. The consequences of genome reduction in eukaryotes inferred from nucleomorph comparative genomics. Annual Meeting of the Phycological Society of America, Providence, Rhode Island. (talk)

Lane*, C. E., van den Heuvel, K., Curtis, B., Fong, A., Kozera, C., Parsons, B., Bowman, S. & **Archibald, J. M.** 2007. Eukaryotic genome reduction. Botanical Society of America, Chicago, Illinois. (talk)

Lane*, C. E., van den Heuvel, K., Curtis, B., Fong, A., Kozera, C., Parsons, B., Bowman, S. & **Archibald, J. M.** 2007. Impact of genome reduction on the eukaryotic proteome: nucleomorphs as a case study. 15th Annual Meeting of the Society for Molecular Biology and Evolution, Halifax, Nova Scotia, Canada. (talk)

Lane*, C. E. & **Archibald, J. M.** 2007. Re-assessing species boundaries in the cryptomonad genus *Hemiselmis*. Northeast Algal Symposium, Narragansett, Rhode Island. (talk)

Khan*, H. & **Archibald, J. M.** 2007. Introns within introns within introns: repeated lateral transfer and recent transposition of mobile introns in the plastid genomes of cryptomonads. 15th Annual meeting of the Society of Molecular Biology and Evolution. Halifax, Nova Scotia, Canada. (talk)

Khan*, H. & **Archibald, J. M.** 2007. Introns within introns within introns: repeated lateral transfer and recent transposition of mobile introns in the plastid genomes of cryptomonads. Evolution 2007. Joint meeting of the Society for the Study of Evolution, American Society of Naturalists, and Society of Systematic Biologists. Christchurch, New Zealand. (talk)

Archibald*, J. M., Gray, M. W., Keeling, P. J., McFadden, G. I. & Lane, C. E. 2007. Impact of secondary endosymbiosis on genome evolution and cell biology: A cryptomonad and a chlorarachniophyte nuclear genome. Second Annual DOE Joint Genome Institute User Meeting, Walnut Creek, California. (poster)

Lane*, C. E., Kozera, C., Bowman, S., Curtis, B. & **Archibald, J. M.** 2006. Complete nucleomorph genome sequence of the cryptomonad *Hemiselmis rufescens*. Annual meeting of the International Society for Evolutionary Protistology. Wroclaw, Poland. (talk)

Khan, H. Curtis, B. A., Terrent Bussey, J., Kozera, C., Bowman, S. & **Archibald, J. M.** 2006. The complete plastid genome sequence of the cryptomonad alga *Rhodomonas salina* CCMP1319. Annual meeting of the International Society for Evolutionary Protistology, Wroclaw, Poland. (poster)

Silver, T. D. & **Archibald, J. M.** 2006. CCMP622 unid. sp.—a chlorarachniophyte alga with a 'large' nucleomorph genome. Annual meeting of the Society for Evolutionary Protistology, Wroclaw, Poland. (poster)

Lane, C. E., Kozera, C., Bowman, S., Curtis, B. & **Archibald*, J. M.** 2006. Complete nucleomorph genome sequence of the cryptomonad *Hemiselmis rufescens*. Annual meeting of the Society for Molecular Biology and Evolution. Tempe, Arizona. (talk)

Lane*, C. E., MacKinnon, M., Khan, H., Fong, A. & **Archibald, J. M.** 2005. Nucleomorph genome evolution in cryptomonads. Tri-National Young Investigators Workshop, Annual meeting of the Society for Molecular Biology and Evolution. Auckland, NZ. (talk)

Phipps*, K., Lane, C. E., & **Archibald, J. M.** 2005. Nucleomorph genome diversity in cryptomonad algae: a preliminary investigation of the genus *Cryptomonas*. Maritimes Protistology Conference. Halifax, NS, Canada. (poster)

Lane*, C. E., Khan, H., MacKinnon, M., Fong, A., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald, J. M.** 2005. New insights into nucleomorph genome evolution in cryptomonads. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)

Khan*, H., Lane, C. E., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald, J. M.** 2005. Host nuclear genome survey of the cryptomonads *Rhodomonas salina* and *Cryptomonas paramecium*. Maritimes Protistology Conference. Halifax, NS, Canada. (talk)

Lane*, C. E., MacKinnon, M., Khan, H., Fong, A. & **Archibald, J. M.** 2005. Nucleomorph genome evolution in cryptomonads. Tri-National Young Investigators Workshop, Annual meeting of the Society for Molecular Biology and Evolution. Auckland, NZ. (talk)

Lane, C. E., Khan, H., MacKinnon, M., Fong, A., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald*, J. M.** 2005. The nucleus and nucleomorph of cryptomonad algae—two extremes of a genomic continuum. 14th Annual meeting of the Society for Molecular Biology and Evolution. Auckland, NZ. (talk)

Lane, C. E., Khan, H., MacKinnon, M., Fong, A., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald*, J. M**. 2005. Nuclear and nucleomorph genome evolution in cryptomonad algae. International symposium on the genomics of marine phytoplankton. Roscoff, France. (poster and talk)

Archibald, J. M., Doolittle, W. F., Bruyant*, F., Cullen, J. J., Bielawski, J. P., Bowman, S., Dennis, P., Edwards, E., Field, C. A., Li, W. K. W., Löffler, F., Major, D. W., Nesbø, C., O'Malley, M., Papke, R. T., Roger, A. J., Stokes, H. W., & Susko, E. 2005. Microbial Environmental Genomics Alliance (MEGA). The US National Oceanographic Partnership Program, Workshop on Ocean Ecogenomics. Washington, DC. USA. (poster)

Khan*, H., Lane, C. E., MacKinnon, M., Fong, A., Theophilou, S., Kozera, C., Curtis, B., Parsons, B., Bowman, S. & **Archibald, J. M.** 2005. Nuclear and nucleomorph genome evolution in cryptomonad algae. International Conference on Microbial Genomes. Halifax, Nova Scotia. (poster)

Lane*, C. E., MacKinnon, M., Khan, H. & **Archibald, J. M.** 2005. Genomic diversity and chromosome structure of cryptomonad nucleomorphs. 41st Northeast Algal Symposium, New Hampshire, USA. (talk)

MacKinnon, M., Fong, A., Lane*, C. E., Theophilou, S. & **Archibald, J. M.** 2005. Nucleomorph genome evolution in cryptomonad algae. Int'l Soc. for Evolutionary Protistology, 15th Ann. Meeting. Melbourne, Australia. (poster)

Archibald*, J. M., Theophilou, S., Fong, A. & MacKinnon, M. 2004. Genome reduction in eukaryotes: nucleomorph genomes as a case study. Joint Annual Meeting of the Society for Molecular Biology and Evolution and the American Genetic Association. Pennsylvania State University, Pennsylvania, USA. (talk)

Archibald*, J. M. 2004. Phagotrophy in the Chlorarachniophyte algae: implications for eukaryotic genome evolution. *J. Eukaryot. Microbiol.* 52: 2. 56th Annual Meeting of the Society of Protozoologists. Bryant College, Rhode Island, USA. (talk)

Archibald*, J. M. 2004. Phagotrophy in the Chlorarachniophyte algae. Canadian Institute for Advanced Research and NASA Astrobiology Institute meeting on lateral gene transfer and the origins of eukaryotes. Harrison Hot Springs, British Columbia, Canada. (poster)

Archibald*, J. M. & Keeling, P. J. 2002. A novel polyubiquitin structure in Cercozoa and Foraminifera: evidence for a new eukaryotic supergroup. Int'l Soc. for Evolutionary Protistology, 14th Ann. Meeting. Vancouver, British Columbia, Canada. (talk)

Archibald*, J. M., Logsdon, J. M. Jr., Blouin, C. & Doolittle, W. F. 2001. Gene duplication and the evolution of CCT/TriC. Canadian Institute for Advanced Research, Evolutionary Biology Program, 15th Ann. Meeting. Val David, Quebec, Canada. (poster)

Archibald*, J. M., Doolittle, W. F. & Roger, A. J. 2001. Gene duplication, conversion and loss in the evolution of archaeal chaperonins. Int'l Meeting of the Society for Molecular Biology & Evolution, Ann. Meeting. Athens, Georgia, USA. (talk; Fitch Prize finalist)

Kovacs, E., Field, J., **Archibald, J. M.** & Lund*, P. A. (2001) Roles of CCT homologues in Archaea: studies on the halophile *Haloferax volcanii*. EuroConference and EMBO Workshop: Mechanisms and Cellular Functions of Molecular Chaperones. Sant Feliu de Guixols, Spain. (poster)

Archibald*, J. M., Logsdon, J. M. Jr., Blouin, C. & Doolittle, W. F. 2000. Gene duplication and the evolution of CCT/TriC. Workshop on Chaperonins: Structure and Function. Center for International Meetings on Biology, Madrid, Spain. (talk and poster; prize winner)

Archibald*, J. M., O'Kelly, C. J. & Doolittle, W. F. 2000. The chaperonin genes of jakobid flagellates: implications for early eukaryotic evolution. Canadian Institute for Advanced Research, Evolutionary Biology Program, 14th Ann. Meeting. Digby, Nova Scotia, Canada. (poster)

Archibald*, J. M., O'Kelly, C. J., Logsdon, J. M. Jr. & Doolittle, W. F. 2000. Phylogeny of chaperonins: implications for the origin and evolution of eukaryotes. Int'l Soc. for Evolutionary Protistology, 13th Ann. Meeting. Ceske Budejovice, Czech Republic. (talk)

Archibald*, J. M., Logsdon*, J. M. Jr. & Doolittle, W. F. 1999. Ancient gene duplications in chaperonins: implications for eukaryotic phylogeny. Canadian Institute for Advanced Research, Evolutionary Biology Program, 13th Ann. Meeting. Banff, Alberta, Canada. (poster)

Archibald*, J. M., Logsdon, J. M. Jr. & Doolittle, W. F. 1999. Evolution of archaeal chaperonins by multiple independent gene duplications. Understanding chaperonin mediated protein folding. Karolinska Inst., Stockholm, Sweden. (talk and poster; student prize winner)

Archibald*, J. M., Logsdon, J. M. Jr. & Doolittle, W. F. 1999. Evolution of archaeal chaperonins by multiple independent gene duplications. Keystone Symposium. Archaea: Bridging the gap between Bacteria and Eukarya. Taos, New Mexico, USA. (poster)

Archibald*, J. M., Logsdon, J. M. Jr. & Doolittle, W. F. 1998. Phylogeny of chaperonin-containing TCP-1 genes from the early-diverging eukaryote, *Trichomonas vaginalis*. Int'l Soc. for Evolutionary Protistology, 12th Ann. Meeting. Flagstaff, Arizona, USA. (talk)

Archibald*, J. M., Logsdon, J. M. Jr. & Doolittle, W. F. 1998. Chaperonin-encoding genes from the pathogenic protozoa, *Trichomonas vaginalis* and *Giardia lamblia*. Faculty of Medicine Graduate Research Day. Halifax, Nova Scotia, Canada. (poster)

INVITED PRESENTATIONS (117 in total)

2025—**Invited symposium speaker**, JGI New Lineages of Life Symposium 2025, University of Nevada in Las Vegas, November 4th-5th. Title: *Metagenomics as an engine of giant virus discovery.*

2025—**Invited speaker**, 12th Aquatic Virus Workshop, Banyuls-Sur-Mer, France. May 6th. Title: *Persistent mirusvirus infection in the marine protist* Aurantiochytrium

2025—**Invited speaker**, St. Francis Xavier University, Department of Biology seminar series. January 15th. Title: *Mergers and acquisitions: genome biology and evolution of microbial eukaryotes*

2024—**Invited speaker**, Duke University Program in Genetics and Genomics, and Department of Molecular Genetics and Microbiology seminar series. November 6th. Title: *One plus one equals one: symbiotic mergers and the biology of eukaryotes*

2024—**Invited speaker**, Comparative Genomics of Unicellular Eukaryotes Conference, San Feliu de Guixols, Spain. October 2nd. Title: *Genome biology and evolution of newly-discovered mirusviruses in thraustochytrid protists.*

2024—**Invited Keynote speaker**, Digital Research Infrastructure Connect: Towards integrated solutions for digital research. May 27th. Title: *Bioinformatics: challenges and opportunities in the genomics era.*

2024—**Invited seminar speaker**, Dalhousie University, Department of Microbiology & Immunology. May 13th. Title: *Adventures in long-read DNA sequencing: pan-genomes and the discovery of mirusviruses.*

2024—**Invited seminar speaker**, University of British Columbia, Biodiversity Research Centre genomics group. May 6th. Title: *Adventures in long-read sequencing: from protist pan-genomics to mirusviruses.*

2024—**Invited speaker and Canadian Science Publishing Senior Investigator Award winner**, Annual Conference of the Canadian Society for Molecular Biosciences, Winnipeg. May 8thth. Title: *Endosymbiotic theory — a natural history.*

2024—**Invited speaker**, Biodiversity Cell Atlas Meeting, Marine Biological Laboratory. March 25th. Title: *Protist genome biology in the lab… and nature?*

2023—**Invited speaker**, Department of Biochemistry, University of Cambridge, UK. November 9th. Title: *Gene exchange across the eukaryotic tree of life: highways, byways, and bike paths.*

2023—**Invited speaker**, Zoology Institute ("Origin and Function of Metaorganisms"), Kiel University, Germany. November 6th. Title: *Gene exchange across the eukaryotic tree of life: highways, byways, and bike paths.*

2023—**Invited speaker**, Gregor Mendel Institute of Molecular Plant Biology, Vienna, Austria. November 3rd. Title: *Gene exchange across the eukaryotic tree of life: highways, byways, and bike paths.*

2023—**Invited speaker**, Department of Biology, University of Oxford, UK. November 2nd. Title: *Gene exchange across the eukaryotic tree of life: highways, byways, and bike paths.*

2023—**Invited speaker**, Department of Biology Seminar Series, Western University. September 6th. Title: *Gene sharing across the eukaryotic tree of life: highways, byways, and bike paths.*

2023—**Invited speaker**, Department of Plant and Microbial Biology, UC Berkeley. March 17th. Title: *Gene sharing on the eukaryotic tree of life: highways, byways, and bike paths.*

2022—**Invited speaker**, Multi-Omics Workshop of microbial Eukaryotes, Joint Genome Institute, California, September 2nd. Title: *Nanopore sequencing for fine-scale comparative genomics of micro-algae.* [Remote presentation due to COVID-19]

2022—**Invited speaker**, Dalhousie Faculty of Agriculture, June 16th, Truro, NS. Title: *Highways of gene sharing on the eukaryotic tree of life.*

2021—**Invited speaker**, Aquatic Symbiosis Genomics Consortium, Species to Genomes Course, Wellcome-Sanger Institute, October 12th. Title: *Mergers and acquisitions: using genomics to elucidate the biology of symbiosis in microbial eukaryotes.* [Remote presentation due to COVID-19]

2021—**Invited speaker**, Cambridge University Biological Society, June 17th. Title: *Mergers and acquisitions: endosymbiosis and gene transfer in microbial eukaryotes.* [Remote presentation due to COVID-19]

2021—**Invited speaker**, Chicago Museum Docents Education Group, May 12th. Title: *Genes moving sideways: horizontal gene transfer.* [Remote presentation due to COVID-19]

2020—**Invited plenary speaker**, International Union of Microbiological Societies Congresses, Daejeon, Korea (November 18th). Title: *Gene flow in microbial eukaryotes.* [Remote presentation due to COVID-19]

2020—**Invited lecturer,** International Course on Algal Communities in Continental Waters, Universidade Estadual de Londrina, Brazil (September 29th). Title: *Endosymbiosis and the origin of plastids.* [Remote presentation due to COVID-19]

2020—**Invited colloquium speaker**, Stony Brook University, Department of Ecology and Evolution (September 23rd). Title: *Mergers and acquisitions: endosymbiosis and gene flow in microbial eukaryotes.* [Remote presentation due to COVID-19]

2020—**Invited speaker**, Aquatic Symbiosis Genomics Project (Kick-off meeting), Welcome Sanger Institute (September 16th). Title: *Eukaryote-eukaryote symbioses.* [online]

2020—**Invited speaker**, Temple University Department of Biology Seminar Series (April 20th). Title: *Jumping genes in eukaryotes: how and how much?* [Postponed due to COVID-19]

2020—**Invited speaker**, Joint Genome Institute Fungal / Algal Genomics Workshop, Walnut Creek, CA. (March 23rd). Title: *Genome mosaicism in algae.* [Postponed due to COVID-19]

2020—**Invited symposium speaker,** Purdue University Biochemistry Department (March 5th). Title: *Mergers and acquisitions: endosymbiosis and gene flow in microbial eukaryotes.*

2020—**Invited speaker**, Dalhousie Medical History Society, January 6th, Halifax, NS. Title: *Genomics: past, present, and future.*

2019—**Miescher-Ishida Prize lecturer**, International Colloquium on Endocytobiology and Symbiosis, Sept. 1-5, Lille, France. Title: *Adventures in genomics and symbiosis*.

2019—**Invited speaker**, Gordon Research Conference (Animal-Microbe Symbioses), Mount Snow, Vermont, June 16-21. Title: *Mergers and acquisitions: endosymbiosis and gene flow in microbial eukaryotes*

2019—**Invited speaker**, University of New Brunswick Department of Biology Seminar Series (March 22nd). Title: *Genomics 2.0: biology and medicine in the 21st century.*

2018—**Invited speaker**, the 13th International Conference on Genomics, October 24th – 28th, Shenzhen, China. Title: *Weird, wonderful and important: protist genomes from across the tree of eukaryotic life.*

2018—**Invited symposium speaker**, the 5th joint meeting of the Phycological Society of America & International Society of Protistologists, July 29th – August 2nd, Vancouver, British Columbia. Title: *10KP: a phylodiverse genome sequencing plan.*

2018—**Invited speaker**, Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, Annual Meeting, June 12-15, Banff, Alberta. Title: *Impact of genome sequencing technologies on microbial diversity research.*

2018—**Invited plenary speaker,** CRC 1182 Junior Researchers Training Workshop, May 2-4, Kiel University, Germany. Title: *Euks in euks: new perspectives from kinetoplastid endosymbionts within pathogenic amoebae.*

2018—**Invited speaker,** Reef Microbiome Workshop, McGill's Bellairs Research Station, Barbados (January 26-February 2nd). Title: *Gene transfer in eukaryotes.*

2017—**Invited speaker,** The Company of Biologists Workshop ('symbiosis in the microbial world'), Sussex, UK (November 5th –9th). Title: *Symbiosis: new perspectives from eukaryotic endosymbionts within pathogenic amoebae.*

2017—**Invited plenary speaker,** Norwegian Biologist's Association annual meeting (November 3rd), Oslo, Norway. Title: *One plus one equals one: historical and modern perspectives on endosymbiotic theory.*

2017—**Invited symposium speaker,** University of Bergen (November 2nd). Title: *Jostein Goksøyr's 'Evolution of Eukaryotic Cells': 50 years on.*

2017—**Invited symposium speaker,** 15th International Congress of Protistology, Prague, Czech Republic (July 30th – August 4th). Title: *Symbiosis: new perspectives from eukaryotic endosymbionts within pathogenic amoebae.*

2017—**Invited lecturer,** Frontiers in Evolutionary Ecology and Genomics Workshop, Beijing Normal University, China (June 24-26). Titles: *One plus one equals one: historical and modern perspectives on endosymbiotic theory AND Endosymbiosis and genome mosaicism in microbial eukaryotes.*

2017—**Invited symposium speaker,** Annual meeting of the Society for General Microbiology, Edinburgh, UK (April 1-6th). Title: *Symbiosis: new perspectives from eukaryotic endosymbionts within pathogenic amoebae.*

2017—**Invited speaker,** 67th Annual Conference of the Canadian Society of Microbiologists, University of Waterloo (June 20-23). Title: *One plus one equals one: historical and modern perspectives on symbiosis.*

2017—**Invited speaker,** Workshop in Symbiotic Interactions in the Oceans, Grand Wailea, Maui (January 23-27). Title: *Of macrobes and microbes: symbiosis, ecology and evolution.*

2016—**Invited public lecture,** Nova Scotian Institute of Science (December 5th). Title: *Molecular clocks: using DNA to infer evolution.*

2016—**Invited speaker,** Acadia University Department of Biology Seminar Series (September 29). *Symbiosis: new perspectives from the eukaryotic endosymbionts of pathogenic amoebae.*

2016—**Invited plenary speaker,** 13th International Colloquium on Endocytobiology and Symbiosis, Kyoto, Japan. Title: *One plus one equals one: historical and modern perspectives on endosymbiotic theory.*

2016—**Invited speaker and Discussion Leader,** Gordon Research Conference on Mitochondria and Chloroplasts, June 19-24, Mount Snow, Vermont. Title: *One plus one equals one: historical and modern perspectives on endosymbiosis.*

2016—**Invited plenary speaker,** DFG 'Origin and function of metaorganisms', June 8-10, Kiel University, Germany. Title: *Endosymbiosis and genome mosaicism in microbial eukaryotes.*

2016—**Invited plenary speaker,** Harvard Plant Biology Symposium, May 2-3, Harvard University. Title: *One plus one equals one: historical and modern perspectives on the evolution of eukaryotic photosynthesis.*

2016—**Invited speaker,** EMBO/EMBL Symposium, January 26-29, Heidelberg, Germany. Title: *Gene transfer in eukaryotes: frequency, patterns and implications.*

2015—**Invited speaker,** Dalhousie University Department of Microbiology & Immunology Seminar Series. Title: *One plus one equals one: endosymbiosis and genome mosaicism in eukaryotic evolution.*

2015—**Invited plenary speaker,** 6th European Phycological Congress, August 23-28, London, England. Title: *One plus one equals one: symbiosis and the evolution of complex life.*

2015—**Invited 'history of science' speaker,** NSF-funded 'Research Experience for Undergraduates Program', June 24, Wadsworth Centre, Albany, New York. Title: *One plus one equals one: symbiosis and the evolution of complex life.*

2014—**Invited speaker,** Acadia University Department of Biology Seminar Series (November 13). Title: *One plus one equals one: symbiosis and the evolution of complex life.*

2014—**Invited speaker,** Arthur M. Sackler Colloquium of the National Academy of Sciences, October 15-17, Irvine, California. Title: *Nuclear organelles.*

2014—**Invited speaker,** University of New Brunswick Department of Biology Seminar Series (October 3). Title: *One plus one equals one: symbiosis and the evolution of complex life.*

2014—**Invited plenary speaker (Seymour H. Hutner Young Investigator Prize winner)**, International Society of Protistologists Annual Meeting, August 3-8, Banff, Alberta. Title: *Problems and progress in protistology.*

2014—**Invited speaker,** Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, Annual Meeting, June 25-29, Czech Academy of Sciences, Czech Republic. Title: *Serial Endosymbiosis Theory: who said what, when and why.*

2014—**"Kieler Woche Guest" and lecturer,** Invited by the Natural & Mathematical Faculty at Kiel University, Germany, to give a public lecture on science as part of their Kiel Week celebrations (June 21-29). Title: *One plus one equals one: symbiosis and the evolution of complex life.*

2014—**Invited speaker,** Concordia University Department of Biology Seminar Series (April 17). Title: *One plus one equals one: endosymbiosis and genome mosaicism in the diversification of complex life.*

2013—**Invited speaker,** EMBO Conference on Comparative Genomics of Eukaryotic microorganisms, October 19-24, San Feliu de Guixols, Spain. Title: *Euks in euks: new perspectives from the* Ichthyobodo*-related endosymbionts of pathogenic amoebae.*

2013—**Invited symposium speaker,** Microbial Diversity Summer Course, Marine Biological Laboratory, Woods Hole, MA. Title: *Genomic perspectives on the origin and spread of photosynthesis in eukaryotes.*

2013—**Invited speaker,** ICOP XIV (International Congress of Protistology), Vancouver, Canada. Title: *Euks in euks: new perspectives from the* Ichthyobodo*-related endosymbionts of pathogenic amoebae.*

2013—**Invited speaker,** University of Ottawa Department of Biology Seminar Series. Title: *One plus one equals one: endosymbiosis and genome mosaicism in the diversification of complex life.*

2012—**Invited speaker,** Queen Mary University of London, School of Biological and Chemical Sciences, Seminar Series. Title: *One plus one equals one: plastid evolution and genome mosaicism in microbial eukaryotes.*

2012—**Invited keynote address,** book launch for "On the origin of eukaryotic cells", in honour of the late Lynn Margulis, Lisbon, Portugal. Title: *Lynn Margulis (1938-2011).*

2012—**Invited speaker,** University of Cambridge Department of Biochemistry Seminar Series. Title: *Endosymbiosis, genome mosaicism and the evolution of photosynthetic eukaryotes.*

2012—**Invited speaker,** Christian Albrechts University (Germany) – Dalhousie University Joint Workshop. Title: *Overview of Comparative Genomics and Evolutionary Bioinformatics at Dalhousie.*

2012—**Invited public lecture,** Rethinking Biology and Evolution: New Approaches for the New Century, Lisbon, Portugal. Title: *Cellular evolution: modern perspectives on symbiosis and the diversification of complex life*

2012—**Invited speaker,** Workshop on Biology and Evolution, Lisbon, Portugal. Title: *Genomics meets philosophy: symbiosis and the 'tree of life'*

2012—**Invited speaker,** Gordon Research Conference (Marine Microbes), Lucca, Italy. Title: *Genome mosaicism in marine microbial eukaryotes: how much and what does it mean?*

2011—**Symposium speaker,** 19th Annual Meeting of the Society for Molecular Biology and Evolution. Kyoto, Japan. Title: *One plus one equals one: secondary endosymbiosis and genome mosaicism in microbial eukaryotes.*

2011—**Invited speaker,** "Molecular evolution in the genomic era", Rome 3 University, Rome, Italy. Title: *Endosymbiosis and genome mosaicism in secondary plastid-bearing eukaryotes.*

2011—**Invited speaker,** Evolutionary Genomics Workshop, Institute for Pure & Applied Mathematics, UCLA, CA. Title: *Genome mosaicism in microbial eukaryotes.*

2011—**Invited speaker,** University of New Brunswick Department of Biology Seminar Series. Title: *Endosymbiosis and genome mosaicism in microbial eukaryotes.*

2011—**Invited speaker,** Plant and Animal Genome XIX Conference, San Diego, CA. Title: *The genomes of nucleomorph-bearers.*

2010—**Invited speaker,** Memorial Symposium for the 26th International Prize for Biology, Tsukuba, Japan. Title: *Endosymbiosis–a driver of molecular and cellular evolution.*

2010—**Invited speaker,** 11th International Colloquium on Endocytobiology and Symbiosis, Tromsø, Norway. Title: *Endosymbiosis and genome mosaicism in cryptophyte and chlorarachniophyte algae.*

2009—**Invited speaker,** London Natural History Museum, Seminar Series, London, UK. Title: *You are what you eat: endosymbiosis and genome evolution in unicellular eukaryotes.*

2009—**Invited speaker,** University of Exeter, School of Biosciences Seminar Series, Exeter, UK. Title: *Bonsai genomics: origin and evolution of reduced endosymbiotic nuclear genomes.*

2009—**Invited speaker,** Mount Allison University Biochemistry Department Seminar Series. Title: *You are what you eat: endosymbiosis and genome evolution in cryptophyte and chlorarachniophyte algae.*

2009—**Invited Symposium speaker,** Annual meeting of the Society for General Microbiology, Heriot-Watt University, Edinburgh, Scotland. Title: *The eukaryotic Tree of Life: Endosymbiosis takes its TOL.*

2009—**Invited Symposium speaker,** 9th International Phycological Congress, Tokyo, Japan. Title: *Endosymbiotic gene transfer and genome evolution in secondary plastid-containing algae: insights from cryptophytes and chlorarachniophytes.*

2009—**Invited Symposium speaker,** 17th Annual Meeting of the Society for Molecular Biology and Evolution. Iowa City, Iowa. Title: *Vanishing nucleomorph genomes: Where do they go and how do they do it?*

2009—**Invited speaker,** University of Geneva Departmental of Zoology and Animal Biology Seminar Series, Geneva, Switzerland. Title: *Bonsai genomics: the remnant nuclear genomes of cryptophyte and chlorarachniophyte algae.*

2009—**Symposium speaker,** Perspectives on the Tree of Life, Dalhousie University, Halifax, NS, Canada. Title: *Genomic threads in the tapestry of photosynthetic life: implications for 'tree thinking.'*

2009—**Symposium speaker,** IGERT Program in Comparative Genomics, Annual Symposium, University of Arizona, Tuscon, Arizona. Title: *The eukaryotic Tree of Life: Endosymbiosis takes its TOL.*

2009—**Invited speaker,** Canadian Institute for Advanced Research Junior Fellow Academy Meeting, Toronto, ON. Title: *Integrated Microbial Biodiversity Program*

2009— **Invited symposium speaker and chair,** Annual Meeting of the American Association for the Advancement of Science (AAAS), Darwin 'Mania' Symposium (organelles), Chicago, Illinois. Title: *Symbiosis as an evolutionary driver: mergers of cells and genomes.* Speaker and Chair.

2008—**Invited speaker,** Tree of Life Workshop, Dalhousie University, Halifax, NS, Canada. Title: *Cryptophytes.*

2008—**Invited speaker,** Mitochondria, ribosomes & cells: a symposium in honour of Mike Gray, Dalhousie University, Halifax, NS, Canada. Title: *Endosymbiosis and eukaryotic genome evolution.*

2008—**Invited speaker,** Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, 2nd Ann. Meeting. Lac Carling, Quebec, Canada. Title: *Nucleomorph genomes: "where are we now?"*

2008—**Invited speaker,** International Symposium on Protist Biology (Plenary Speaker), University of Tsukuba, Japan. Title: *Protist diversity and the eukaryotic Tree of Life: endosymbiosis takes its TOL.*

2008—**Invited speaker,** Dalhousie University Department of Biology Seminar Series. Title: *Going, going, not quite gone: the weird and wonderful world of endosymbiotic nuclear genomes.*

2007—**Invited speaker,** University of Toronto Department of Ecology & Evolution Seminar Series. Title: *Bonsai genomics: understanding the process of genome reduction in eukaryotes.*

2007—**Invited speaker,** Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, 1st Ann. Meeting. Vancouver, British Columbia, Canada. Title: *Endosymbiosis, gene transfer and eukaryotic evolution.*

2007—**Invited speaker,** American Genetic Association Annual Meeting, Bloomington, IA. Title: *Genome reduction in eukaryotes: nucleomorph genomes as a case study.*

2007—**Invited speaker,** Second Annual US DOE Joint Genome Institute User Meeting, Walnut Creek, CA. Title: *Impact of secondary endosymbiosis on genome evolution and cell biology: a cryptomonad and a chlorarachniophyte nuclear genome.*

2007—**Invited speaker,** 4th European Phycological Congress, Oviedo, Spain. Title: *Secondary endosymbiosis and genome evolution: the nuclear and nucleomorph genomes of cryptophyte and chlorarachniophyte algae.*

2007—**Invited speaker,** Acadia University Biology Department Seminar Series. Title: *Bonsai genomics: understanding the process of genome reduction in eukaryotes.*

2007—**Invited speaker,** Canadian Institute for Advanced Research, Evolutionary Biology Program, 18th Ann. Meeting. Halifax, NS, Canada. Title: *Genome evolution writ small.*

2006—**Invited speaker,** Microbial Biodiversity Workshop, Banff, Alberta, Canada. Title: *Genome size diversity in microbial eukaryotes.*

2005—**Invited speaker,** Canadian Institute for Advanced Research, Workshop on Microbial Biodiversity, Vancouver, BC, Canada. Title: *The nucleus and nucleomorph of cryptomonad algae—two extremes of a genomic continuum*.

2005—**Invited speaker,** Annual General Meeting of the Canadian Society for Microbiologists, Halifax, NS, Canada. Title*: Presentation on "Careers in Academia" as part of roundtable discussion.*

2004—**Invited speaker,** Canadian Institute for Advanced Research, Evolutionary Biology Program, 17th Ann. Meeting. Pine Hill, Quebec, Canada. Title: *On the feeding habits of chlorarachniophyte algae*.

2004—**Invited speaker,** NASA Astrobiology Institute and Canadian Institute for Advanced Research meeting on lateral gene transfer and the origins of eukaryotes, Harrison Hot Springs, British Columbia, Canada. Title: *Lateral gene transfer and the plastid proteome of algae*.

2003—**Invited speaker,** Department of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Nova Scotia, Canada. Title: *Lateral gene transfer and the plastid proteome of algae*.

2002—**Invited speaker,** Canadian Institute for Advanced Research, Evolutionary Biology Program, 16th Ann. Meeting. Harrison Hot Springs, British Columbia, Canada. Title: *Phylogenetic origins of the host and endosymbiont components of chlorarachniophyte algae*.

2002—**Invited speaker,** Departments of Botany and Zoology, University of British Columbia, Vancouver, British Columbia, Canada. Title: *Recycled plastids: a green (and red) movement in eukaryotic evolution*.

2002—**Invited speaker,** Department of Biochemistry and Molecular Biology, Dalhousie University, Halifax, Nova Scotia, Canada. Title: *Recycled plastids: a green (and red) movement in eukaryotic evolution*.

2002—**Invited speaker,** Department of Botany, University of British Columbia, Vancouver, British Columbia, Canada. Title: *Gene duplication, gene conversion and the evolution of group II chaperonins*.

2001—**Invited speaker,** Izaak Walton Killam Memorial Fellowship Committee Banquet, University of British Columbia, Vancouver, British Columbia, Canada. Title: *Origin and evolution of apicomplexan parasites*.

2001—**Invited speaker,** Canadian Institute for Advanced Research, Evolutionary Biology Program, 15th Ann. Meeting. Val David, Quebec, Canada. Title: *Gene conversion and the evolution of archaeal chaperonins: a likelihood method for detecting recombination*.

2000—**Invited speaker,** Center for International Meetings on Biology, Workshop on Chaperonins: Structure and Function. Madrid, Spain. Title: *Gene duplication and the evolution of CCT/TriC*.

PUBLIC OUTREACH AND EDUCATION

2024— Latimer, J., O'Regan, P., Mir, R., Paris, J., Kulish, Y., Bjorndahl, P., Dunn, K. A., **Archibald, J. M.** & Bielawski, J. P. 2024. *Science and science education by, with and for underrepresented students*. Proceedings of the Atlantic Universities' Teaching Showcase, November 2nd, Acadia University.

2024— **Invited speaker**, Time for Science Provincial Conference, Association of Science Teachers, October 25th. Title: The MicroScape Program.

2023—**Invited speaker**, Alzheimer Society of Nova Scotia, Knowledge Changes Everything (Panel Event), January 31st. Title: *Family perspectives on dementia.*

2021—**Invited article**. Title: *Confessions of an amateur caregiver*. *In the Loop Magazine (Summer), Alzheimer Society of Nova Scotia.* Link see also cycleoflife.ca

2021—**Invited opinion article**. Title: *Navigating the twists and turns on the road to dementia awareness*. *Saltwire Press, August 4th.*

2021—**Invited speaker**, Chicago Museum Docents Education Group, May 12th. Title: *Horizontal gene transfer (genes moving sideways).* [Remote presentation due to COVID-19]

2018—**Public lecture.** Royal Society of Canada (Atlantic Chapter) public lecture series, Dalhousie University, Halifax (December 12th). Title: *Genomics: biology and medicine in the 21st century.*

2016—**Invited public lecture.** Nova Scotian Institute of Science, Natural History Museum (December 5th). Title: *Molecular clocks: using DNA to infer evolution.*

2015—**Coordinator**. IB Biology and Chemistry High School Research Day (~30 Park View Education Centre Students visited the department to carry out their research projects)

2014—**Author Blog**. "Microbes Matter" Oxford University Press (blog.oup.com)

2014—**Trade book**. "One plus one equals one: symbiosis and the evolution of complex life" *Oxford University Press.*

2014—**Invited public lecture***.* Invited by the Natural & Mathematical Faculty at Kiel University, Germany, to give a public lecture on science as part of their Kiel Week celebrations (June 21-29). Title: *One plus one equals one: symbiosis and the evolution of complex life.*

2012—**Invited keynote address**. Book launch for translation of "On the origin of eukaryotic cells", in honour of the late Lynn Margulis, Lisbon, Portugal. Title: *Lynn Margulis (1938-2011)*.

2012—**Invited public lecture**. Rethinking Biology and Evolution: New Approaches for the New Century, Lisbon, Portugal. Title: *Cellular evolution: modern perspectives on symbiosis and the diversification of complex life*

2010—**Invited presentation**. Title: How do Microbes Rule the World? '*The Next Big Question' National Tour, sponsored by the Canadian Institute for Advanced Research.*

2009—**Newspaper article**. Title: Government should care about research. *The Chronicle Herald, February 18.*

2008—**Newspaper article**. Title: Look on the bright side of microbial life. *The Chronicle Herald, November 17.*

2008—**Invited presentation**. Science Career Day, Prince Andrew High School, Dartmouth, Nova Scotia. Title: *Life science research as a career.*

2007—**Judge**. Canada-Wide Science Fair, Agricultural College, Truro, Nova Scotia Canada.

2006—**Invited presentation**. Annual General Meeting of the Genealogical Association of Nova Scotia, Halifax, NS, Canada. Title*: The gene in genealogy: what is DNA and how is it used in genealogical research?*

2005—**Invited Presentation.** Genome Atlantic, Science Education and Community Outreach Initiative, Halifax, NS, Canada. Presentation on genome science and technology given to Gaetz Brook Junior High students. Title: *MEGA: Microbial Environmental Genomics Alliance*.

2005—**Roundtable discussion participant**. Annual General Meeting of the Canadian Society for Microbiologists, Halifax, NS, Canada. Title*: Presentation on "Careers in Academia*"

BOOK AND BOOK CHAPTER REVIEWER

CRC Press
Nature
Oxford University Press
Pearson Publishing
Princeton University Press
Quarterly Review of Biology
Springer
W.H. Freeman and Company

MANUSCRIPT REVIEWER (288 manuscripts for the following 52 international journals since 09/2003)

Acta Protozoologica (1), Acta Societatis Botanicorum Poloniae (1), Australasian Plant Pathology (1), Biochimica et Biophysica Sinica (2), BioEssays (4), BioSystems (1) Biotechniques (1), BMC Biology (4), BMC Evolutionary Biology (9), BMC Genomics (4), Botanica Marina (1), Cell (2), Current Biology (33), Encyclopedia of Life Sciences (1), Eukaryotic Cell (3), Environmental Microbiology (1), Evolutionary Bioinformatics (1), FEBS Letters (1), Gene (2), Genome Biology (1), Genome Biology and Evolution (20), International Journal for Parasitology (1), International Journal of Biochemistry and Cell Biology (2), International Journal of Systematic and Evolutionary Microbiology (3), Journal of Biological Chemistry (1), Journal of Eukaryotic Microbiology (4), Journal of Molecular Evolution (21), Journal of Phycology (8), Journal of Plant Research (1), Journal of Plant Physiology (1), Journal of Structural Biology (1), Journal of Theoretical Biology (2), Microbiology (1), Mobile Genetic Elements (1), Molecular Biology and Evolution (39), Molecular Ecology Resources (1), Molecular Genetics and Genomics (2), Molecular Phylogenetics and Evolution (4), Nature (16), Nature Communications (4), Nature Ecology & Evolution (1), Nature Microbiology (1), Nature Reviews Genetics (1), Nature Reviews Microbiology (1), New Phytologist (3), Nucleic Acids Research (2), PLOS Biology (2), PLoS Genetics (1), Proceedings of the National Academy of Sciences, USA (32), Proceedings of the Royal Society of London (3), Protist (13), Science (6), Science Advances (1), Symbiosis (2), Trends in Ecology and Evolution (1), Trends in Genetics (3), Trends in Microbiology (1), Trends in Plant Science (1), Virus Evolution (2)

INVITED JOURNAL EDITORSHIPS AND BOARD MEMBERSHIPS

2020 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2019 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2018 **Guest Editor**, *mBio (American Society for Microbiology)*
2016 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2015 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2014 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2014-15, present **Editorial Board Member**, *Environmental Microbiology* (Intl. peer-reviewed journal)
2013-2016 **Editorial Board Member**, *Eukaryotic Cell* (International peer-reviewed journal; now ASM *mSphere*)
2013 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2012-present **Editorial Board Member**, *Current Biology* (International peer-reviewed journal)
2011 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2010-present **Associate Editor**, *Genome Biology and Evolution* (Intl. peer-reviewed journal)
2010-2011 **Associate Editor**, *Molecular Phylogenetics & Evolution* (Intl. peer-reviewed journal)
2009-present **Editorial Board Member**, *BMC Biology* (International peer-reviewed journal)

2009 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2009-2011 **Associate Editor**, *Journal of Phycology* (International peer-reviewed journal)
2008 **Guest Editor**, *Proceedings of the National Academy of Sciences, USA*
2007-2010 **Associate Editor**, *Phycological Research* (International peer-reviewed journal)

NATIONAL AND INTERNATIONAL GRANT PROPOSAL REVIEWER

2025 The Leverhulme Trust, UK
2025 Austrian Science Fund
2024 Templeton Foundation, USA
2023 Natural Sciences and Engineering Research Council of Canada
2023 Canada Research Chair Program
2021 French National Research Agency, "Living Earth" Evaluation Panel
2020 The Leverhulme Trust, UK
2020 Biotechnology and Biological Sciences Research Council, UK (Strategic Longer and Larger Grants Committee D)
2020 Natural Sciences and Engineering Research Council of Canada
2020 Gordon and Betty Moore Foundation
2019 Knut and Alice Wallenberg Foundation (Sweden)
2019 Natural Sciences and Engineering Research Council of Canada
2018 German Research Foundation (DFG), Emmy Noether Program
2015 Gordon and Betty Moore Foundation Marine Microbiology Initiative, Experimental Model Systems Program
2014 NASA Astrobiology Institute
2014 Canadian Foundation for Innovation, Major Science Initiatives Expert Review Committee Member
2014 French National Research Agency, pre-proposal reviewer
2014 Canadian Institutes of Health Research, Genomics Panel
2013 Heinrich Heine University, Structural Research Fund, Düsseldorf, Germany
2011 Gordon and Betty Moore Foundation (USA)
2011-2012 French National Research Agency
2009 NASA Astrobiology Institute
2009 National Science Foundation / USDA, Genomics Panel
2008-2010 Canadian Institutes of Health Research
2008-2009 Biotechnology and Biological Sciences Research Council, UK
2008 Canadian Foundation for Innovation
2008 Granting Agency of the Academy of Sciences of the Czech Republic
2008 European Science Foundation
2006 Austrian Science Foundation
2005-2009 Natural Sciences and Engineering Research Council of Canada
2004, 2007 Natural Environmental Research Council, UK
2003-2004 NASA Exobiology and Evolutionary Biology Program, USA
2003-2010 National Science Foundation, USA

NATIONAL AND INTERNATIONAL HONOURS AND SERVICE

2023-24	**Scientific Organizing Committee Member**, International Phycological Congress (IPC14)
2023	**Strategic Planning Committee Member**, US Department of Energy Joint Genome Institute
2023	**Organizing Committee Member**, Canadian Society for Microbiology Annual Meeting
2022-23	**Scientific Organizing Committee Member**, International Phycological Congress (IPC13)
2022-present	**Fungal-Algal Advisory Board Member**, US Department of Energy Joint Genome Institute
2021-present	**Diversity, Equity, Inclusion, and Justice Committee**, Earth BioGenome Project
2021-present	**Hub Lead**, Aquatic Symbiosis Genomics Project, Wellcome-Sanger Institute and the Gordon and Betty Moore Foundation
2021-24	**Canada Gairdner Awards Medical Review Panel Member**, Gairdner Foundation
2020-21	**Scientific Organizing Committee Member**, International Phycological Congress (IPC12)
2020-present	**Scientific Advisory Committee Member (Chair in 2022)**, US Department of Energy Joint Genome Institute
2019-20	**Sub-Committee Member**, Earth BioGenome Project (sample collection and processing)
2018	**Advisory Committee Member**, future research opportunities, Gordon and Betty Moore Foundation, USA
2018-2023	**Steering Committee Co-Chair**, Royal Society of Canada, Atlantic Division
2017	**Co-Organizer**, Workshop on symbiosis (The Company of Biologists), Sussex, UK.
2017-18	**Steering Committee Member**, Royal Society of Canada, Atlantic Division
2016	**Co-Lead Organizer**, Trainee Summit, EMBL, Heidelberg, Germany
2016	**Discussion Leader**, Gordon Research Conference on Mitochondria and Chloroplasts (Vermont)
2015-16	**Organizing Committee Member**, EMBL/EMBO – Moore Foundation Marine Microbiology Initiative Symposium on Aquatic Microeukaryotes, EMBL, Heidelberg, Germany
2014	**Lead Organizer**, Dalhousie University – Christian Albrechts University Workshop on Evolutionary Genomics of Symbiosis, Halifax, Nova Scotia Canada.
2014	**Expert Review Committee Member**, Canadian Foundation for Innovation, Major Science Initiatives
2014	**Peer Review Committee Member**, Canadian Institutes of Health Research, Genomics Panel
2013	**Organizing Committee Chair**, 12th International Colloquium on Endocytobiology and Symbiosis, Halifax, Nova Scotia Canada.
2011	**Lead Organizer**, *Guillardia theta* and *Bigelowiella natans* International Genome Jamboree. Sept 7-9, DOE Joint Genome Institute, Walnut Creek, California
2010-2011	**Organizing Committee Member**, Marine Microbial Eukaryote Transcriptome Project (Gordon and Betty Moore Foundation and the National Center for Genome Resources)
2011	**Peer Review Committee Member**, Canadian Institutes of Health Research, Genomics Panel
2010-2013	**Peer Review Committee Member**, Canadian Institutes of Health Research, New Investigator Awards (Panel C)
2009-2010	**Peer Review Committee Member**, Canadian Institutes of Health Research, Doctoral Research Award A (DRA) and Masters Awards (CGA)
2009-2011	**Treasurer**, International Society for Molecular Biology & Evolution

2009 **Chair and Coordinator,** Undergraduate Diversity Mentoring Program, held in conjunction with the 17th Annual Meeting of the Society for Molecular Biology and Evolution, Iowa City, Iowa

2008-2009 **Associate Director,** Canadian Institute for Advanced Research, Program in Integrated Microbial Biodiversity

2008-2009 **Peer Review Committee Member,** Canadian Institutes of Health Research, Human Microbiome Catalyst Grants

2008-2009 **Peer Review Committee Member,** Canadian Institutes of Health Research, Doctoral Research Award A (DRA) and Masters Awards (CGA)

2008 **Invited participant**, Human Microbiome Project Workshop, funded by Genome Canada and CIHR Institute of Infection and Immunity (III), Toronto, Canada

2008 **Invited participant,** "Where to next with the tree of life? A workshop sponsored by the National Science Foundation" (sponsored by NSF, April 3-6, Washington, DC, USA)

2008 **Scientific Committee Member,** 16th Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain

2008 **Co-Chair**, Undergraduate Diversity Mentoring Program, held in conjunction with the 15th Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain

2007 **Scientific Committee Member,** 15th Annual Meeting of the International Society for Evolutionary Protistology, Halifax, Nova Scotia Canada.

2007-2008 **Peer Review Committee Member,** Canadian Institutes of Health Research, Doctoral Research Award A (DRA) and Masters Awards (CGA)

2007 **Organizing Committee Chair,** 15th Annual Meeting of the Society for Molecular Biology and Evolution, Halifax, Nova Scotia Canada. *(~700 delegates from >25 countries*)

2007 **Chair and Coordinator,** Inaugural Undergraduate Diversity Mentoring Program, held in conjunction with the 15th Annual Meeting of the Society for Molecular Biology and Evolution.

2005 **International symposium organizer** ("*Origin and evolution of photosynthetic life"*), Joint meeting of the International Society for Molecular Biology and Evolution and the Australasian Genetic Association, Aukland, New Zealand.

2003 **Invited participant,** Genome Canada/Environment Canada-sponsored Workshop

2002-2004 **North American Councilor,** International Society for Evolutionary Protistology

PROFESSIONAL AFFILIATIONS

2015 American Academy of Microbiology

2017- Nova Scotian Institute of Science

2007-present International Society of Endocytobiology

2004-2005 Nova Scotian Institute of Science

2003-2017 Canadian Institute for Advanced Research

2002-present International Society of Protistologists

1999-present International Society for Evolutionary Protistology

1999-present Society for Molecular Biology and Evolution (inc. Treasurer 2009-2011)

UNIVERSITY AND DEPARTMENTAL ADMINISTRATIVE ACTIVITIES

2024–2025	**Member**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee
2023	**Convocation address**, Faculty of Science (May 31st, 12:30 PM)
2023-24	**Chair**, Internal Review Committee, Senate Review of the Beatrice Hunter Cancer Research Institute
2023	**Judge**, Department of Pathology Research Day
2023	**Member**, Donald Hill Postdoctoral Fellowship Committee
2022-23	Chair, Department of Pharmacology Survey Committee
2022	**Member**, Scientific Director Search Committee, Beatrice Hunter Cancer Research Institute
2021-2024	**Member**, Scientific Advisory Committee, Dalhousie Medical Research Foundation
2021-present	**Member**, Faculty of Medicine CORES Genomics Core Oversight Committee
2020	**Member**, Dalhousie University, New Frontiers in Research Fund, Internal Peer Review Committee
2019-20	**Member**, University Strategic Planning Self Study Team (Research)
2019-20	**Chair**, Department of Biochemistry & Molecular Biology Academic Planning Committee
2018-present	**Co-Chair**, Genomics in Medicine Executive Committee (Faculty of Medicine)
2018	**Member**, Dalhousie University, Faculty of Medicine, Canadian Institutes of Health Research Internal Peer Review Committee
2018-present	**Member**, Faculty of Medicine CORES Electron Microscopy Core Oversight Committee
2017-18	**Member**, Organizing Committee Member, 2018 Royal Society of Canada AGM (held at Dalhousie University)
2016–2018	**Member**, Department of Biochemistry & Molecular Biology Academic Planning Committee
2016	**Member**, Dalhousie University, Faculty of Medicine, Canadian Institutes of Health Research Internal Peer Review Committee
2016–2017	**Member**, Dalhousie University, Department of Physiology & Biophysics Survey / Search Committee
2016–2023	**Member**, Dalhousie University Biological Safety Committee
2015–2016	**Member**, Dalhousie's Faculty of Medicine Medical Research Advisory Committee
2014–2015	**Member**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee
2014	Lead Organizer, Dalhousie University—Kiel University Workshop on Evolutionary Genomics of Symbiosis (Dec 1-2)
2013–2014	**Member**, Dalhousie University—IWK Health Centre, Department of Diagnostic Radiology Review Committee
2013–2014	**Member**, Dalhousie Medicine New Brunswick Academic Affairs Committee
2011–2022	**Member**, Faculty of Graduate Studies College of Ph.D. Thesis Examination Chairs
2010–2015	**Graduate Coordinator**, Department of Biochemistry & Molecular Biology
2009–2010	**Co-Chair**, Faculty of Medicine Basic Science Promotions and Tenure Committee
2008–2009	**Chair**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee
2008–2009	**Member**, Faculty of Medicine Basic Science Promotions and Tenure Committee
2008	**Judge**, Faculty of Medicine Graduate Student Research Day
2008–2009	**Member**, Department of Biochemistry & Molecular Biology Job Search Committee
2007	**Facilitator**, Faculty of Medicine Workshop on Scholarly Integrity

2007–2012 **Patrick Prize Committee Member**, Department of Biochemistry & Molecular Biology
2006–2010 **Associate Graduate Coordinator**, Department of Biochemistry & Molecular Biology
2006–2007 **Member**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee
2005–2015 **Member**, Department of Biochemistry & Molecular Biology Graduate Advisory Committee
2004–2005 **Member**, Department of Biochemistry & Molecular Biology Promotions and Tenure Committee
2004 **Judge**, Faculty of Medicine Graduate Student Research Day
2004–2005 **Chair**, Department of Biochemistry & Molecular Biology Website Committee
2004–2009 Department of Biochemistry & Molecular Biology Seminar Series, Chair, Coordinator and Committee Member

THESIS EXAMINATIONS (national and international)

2022—PhD External Examiner for David McWatters, Department of Biological Sciences, University of Lethbridge, Alberta, Canada. Thesis Title: *Identification and comparison of non-coding RNAs and ribonucleoprotein complexes in several diverse protist species*.

2022—PhD External Examining Committee Member for Marie Leleu, Université de Lille, France. Thesis Title: *Testing the chlamydial footprint in the evolution of Archaeplastida.*

2020—Habilitation a Diriger la Recherche Examination Committee Member, Dr. Ugo Cenci, Université de Lille, France. Thesis Title: *La vie sucrée des eucaryotes (The sweet life of eukaryotes)*.

2019—PhD External Examiner for Benjamin Jenkins, School of Biological Sciences, University of Exeter, UK. Thesis Title: *Using RNA interference to investigate cell-cell interactions in a nascent phototrophic endosymbiosis.*

2017—PhD External Examiner for Sebastian Wittek, Mathematisch-Naturwissenschaftlichen Fakultät der Universität zu Köln. Thesis Title: *Acquisition of photoautotrophy in kleptoplastic dinoflagellates*—Nusuttodinium aeruginosum/acitotum *as a case study.*

2013—PhD External Examiner for Dong Wang, School of Molecular and Biomedical Sciences (Genetics), University of Adelaide, Australia. Thesis Title: *Chloroplast DNAs diversify nuclear and mitochondrial genomes in plants.*

2013—BSc Honours External Examiner for Vojta David, Faculty of Science, University of South Bohemia, Czech Republic. Thesis Title: *Assembly and annotation of a mitochondrial genome from the kinetoplastid protist* Perkinsela.

2010—PhD External Examiner for Jillian Ackland, School of Botany, University of Melbourne, Australia. Thesis Title: *The evolution and function of the dinoflagellate mitochondrion.*

2009—PhD External Examiner for Rhodri Lewis, Department of Zoology, University of Oxford, UK. Thesis Title: *Multigene studies of cercozoan phylogeny and evolution.*

2009—PhD External Examiner for Fabien Burki, Department of Zoology and Animal Biology, University of Geneva, Switzerland. Thesis Title: *A phylogenomic contribution to the eukaryotic tree of life.*

2008—Habilitationsvorhaben bon Frau Kerstin Hoef-Emden, Mathematisch-Naturwissenschaftlichen Fakultät der Universität zu Köln ("Habilitation examination" for Dr. rer. nat. Kerstin Hoef-Emden, Faculty of Mathematics and Natural Sciences, University of Cologne, Germany). Thesis title: *Towards a revision of genera and species in the class Cryptophyceae by combining molecular phylogeny and classical morphological methods*.

SUPERVISORY EXPERIENCE

Postdoctoral Fellows

Shannon Sibbald, Ph.D.	January 1st 2025 - present
Ronie Haro, Ph.D.	May 1st 2024 - present
Jong Im Kim, Ph.D.	Visiting Scientist, April 2023-October 2023
Jong Im Kim, Ph.D.	Visiting Scientist, September 2021-March 2022
Xi Zhang, Ph.D.	September 2021-September 2023 (Current position: Bioinformatician, National Research Council, Saskatoon)
Dudley Chung, Ph.D.	September 2020 - present
Lucie Gallot-Lavallée, Ph.D.	March 2018-June 2024
Gina Filloramo, Ph.D.	March 2017-March 2022 (Current position: Senior Genome Technologist, Massachusetts General Hospital DNA Core)
Jan de Vries, Ph.D.	September 2016-March 2019 (Current position: Faculty member, Georg-August University, Goettingen, Germany)
Jong Im Kim, Ph.D.	Visiting Scientist, August-December 2018 (Current position: Research Associate, Chungnam National University, Republic of Korea)
Sebastian Hess, Ph.D.	July 2018- September 2018 (Current position: Independent Research Group Leader, University of Cologne, Germany)
Anna Åsman, Ph.D.	September 2016-April 2018 (Current position: Postdoctoral fellow, Swedish University of Agricultural Sciences, Sweden)
Jong Im Kim, Ph.D.	Visiting Scientist, October 2016-November 2017 (Current position: Research Associate, Chungnam National University, Republic of Korea)
Cameron Grisdale, Ph.D.	February 2015-May 2017 (Current position: Bioinformatician, BC Cancer Agency)
Daniel Moog, Ph.D.	April 2014-May 2016 (Current position: Scientific Coordinator, Max Planck Institute for Terrestrial Microbiology, Marburg, Germany)
Ugo Cenci, Ph.D.	February 2014-January 2016 (Current position: Faculty member, Université de Lille, France)
Gillian Gile, Ph.D.	December 2013-August 2015 (Current position: Faculty member, Arizona State University, Tempe)
Bruce Curtis, Ph.D.	December 2012-December 2022 (Current position: retired)
Ansgar Gruber, Ph.D.	September 2012-September 2013 (Current position: Postdoctoral fellow, Institute of Parasitology Biology Centre, Czech Republic)
Jimeng Hua, Ph.D.	April 2012-May 2013 (Current position: unknown)
Takuro Nakayama, Ph.D.	June 2011-April 2013 (Current position: Faculty member, Tohoku University, Japan)
Shinichiro Maruyama, Ph.D.	November 2009-March 2013 (Current position: Faculty member, Dept. of Ecology and Evolution, Tohoku University, Japan)

Goro Tanifuji, Ph.D.	January 2009-August 2013 (Current position: Faculty member, National Museum of Nature and Science, Tsukuba University, Japan)
Julia Hopkins, Ph.D.	September 2007-May 2013 (Current position: Senior Scientist, Foundation Medicine Inc., Cambridge, MA)
Eunsoo Kim, Ph.D.	Winter 2007–Winter 2012 (Current position: Faculty member, American Museum of Natural History, New York)
Christopher Lane, Ph.D.	Fall 2004–Summer 2008 (Current position: Faculty member, Dept. of Biology, University of Rhode Island)
Stan Theophilou, Ph.D.	Winter 2004–Fall, 2004 (Current position: unknown)

Graduate Students

Charlotte McLean	September 2024 – present (M.Sc. student)
Jessica Latimer	September 2023 – present (Ph.D. student)
Dmytro Tymoshenko	September 2023 – present (Ph.D. student)
Cédric Blais	2022-present (Ph.D. student)
Ella Kantor	2022-2025 (M.Sc. student; co-supervised with J. LaRoche)
Anna Vanclova	June 2018-September 2018 (visitor from Czech Republic)
Morgan Colp	January 2018-August 2024 (NSERC CGS Scholarship recipient) Ph.D. Thesis: "Studies on the genome biology and evolution of *Acanthamoeba*"
Shannon Sibbald, M.Sc.	January 2018-November 2024 (NSERC CGS Scholarship recipient) Ph.D. Thesis: "Dynamic genome evolution between and within species of pelagophyte algae"
Vojtech David, M.Sc.	September 2015-December 2017
Shannon Sibbald	September 2015-August 2017 (funded by NSERC scholarship) MSc Thesis: "Symbiosis and its impact on eukaryotic evolution"
Christa Moore, Ph.D.	September 2008-June 2013 (NSERC CGS Scholarship recipient) Ph.D. Thesis: "Nucleomorph and plastid genome evolution in the cryptophyte *Chroomonas mesostigmatica*"
Bruce Curtis, Ph.D.	May 2008-October 2012 Ph.D. Thesis: "Endosymbiotic gene transfer in the nucleomorph-containing organisms *Bigelowiella natans* and *Guillardia theta*"
Robert Eveleigh, M.Sc.	September 2008-2011 MSc Thesis: "Being *Aquifex aeolicus*: untangling a hyperthermophile's checkered past"
Natalie Donaher, M.Sc.	September 2006-Spring 2009 (NSERC CGS Scholarship recipient) MSc Thesis: "The complete plastid genome sequence of the secondarily non-photosynthetic alga *Cryptomonas paramecium* 977/2a"
Tia Silver, M.Sc.	May 2005- Fall 2008 (NSHRF Student Award recipient) MSc Thesis: "Nucleomorph genome diversity in chlorarachniophyte algae"
Hameed Khan, Ph.D.	Summer 2004-Spring 2008 Ph.D. Thesis: "Diversity and evolution of mobile genetic elements in the nuclear and organellar genomes of cryptophyte algae"

Undergraduate Students

Sofia Morrisette	2025, summer student
Kate Thomson	2025, summer and Honours student
Gurnoor Kaur	2025, DISP student
TJ Goertz	2025, DISP student
Rae Fitzgerald	2025, co-op student
Sonya Hum	2024, summer and Honours student
Eda Ozsan	2024, experiential learning student, summer and Honours student
Saffi Sangster	2023, 2024, 2025 summer student
Emma Phelan	2023, 2024 summer student
Sari Matar	2023-24 summer and Honours student
Jack Wuotila	2022-23 summer and Honours student
Charlotte McLean	2022-23 summer and Honours student
Kalen Spinney	2022, experiential learning and summer student
Emma Fennessy	2021, co-op student
Margaret Lawton	2019-2020, co-op and Honours student
Cédric Blais	2018-2020, Honours student (History of Science and Technology, University of King's College)
Meagan Adams	2018-2019, Honours student (Biology)
Emma Blanche	2018, co-op student
Elizabeth Woolaver	2018, undergraduate research volunteer
Morgan Colp	2016-17, co-op and Honours student (recipient of NSERC USRA)
Michael McPhee	2015-16, experiential, summer, and Honours student
Amanda Stanton	2014-15, summer student (recipient of NSERC USRA)
Shannon Sibbald	2014-15, summer and Honours student
Louis Martin	2014-15, summer and Honours student (recipient of NSERC USRA)
Vojtech David	2013, summer student
Rebecca Gibeault	2010-11, Honours student
Katherine Richman	2010-11, Honours student
James Giffin	2010, Summer research volunteer
Tyler Mills	2009-10, summer and Honours student
Matthew MacDowell	2008-09, Honours student
Zach Fitzsimmons	2007-08, Honours student
Natalie Parks	2006-07, Honours student (recipient of NSERC USRA (declined) and winner of 2007 University Medal in Biochemistry & Molecular Biology)
Krystal van den Heuvel	2005-07, summer and Honours student (recipient of NSERC USRA for summer 2005 and summer 2006, recipient of 2005/06 W. Andrew MacKay Alumni Scholarship)
Kyle Phipps	2005-06, summer and Honours student
Melissa MacKinnon	2004-05, summer and Honours student

Research Technicians and Lab Managers

Marlena Dlutek	Fall 2007–Present

Katrin Sommerfeld	Fall 2007-summer 2010
Anna Fong	Winter 2004–Fall 2007

Research Assistants

Nik Brask	September-October 2024
Charlotte McLean	May-December 2023
Dmytro Tymoshenko	Fall 2022-August 2023
Cédric Blais	May-August 2020
Krista Jager	September-December 2018
Shannon Sibbald	September-December 2017
Jesssica Johnson-Mackinnon	May 2013-December 2013
Robert Eveleigh	January 2012–April 2012
Naoko Tanifuji	January 2009-August 2013
Tia Silver	January 2009–April 2009
Robert Eveleigh	May 2008–August 2008
Christa Moore	April 2008–August 2008

High School Student Job Shadows and Co-op placements

Saffi Sangster	September-December 2021, Citadel High School
Matt Hood	July-August, 2008, Sackville High School
Alex Sisley	January 13, 2006, J. L. Ilsley High School
Matthew Ponsford	November 26, 2004, J. L. Ilsley High School