JOHN M. ARCHIBALD

Curriculum vitae March 2017

Department of Biochemistry & Molecular Biology Dalhousie University Halifax, Nova Scotia B3H 1X5 Canada (902) 494-2536 (phone) (902) 494-1355 (fax) http://myweb.dal.ca/jmarchib/



ACADEMIC POSITIONS

Distinguished Research ProfessorDalhousie University, July 2016-June 2021Visiting By-FellowChurchill College, University of Cambridge, UK

(July – December 2012)

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 Environmental Microbiology (2014-present)

Eukaryotic Cell (2013-present) Current Biology (2012-present) Protist Genomics (2012-present) BMC Biology (2009-present)

Associate Editor Genome Biology & Evolution (2010-present)

Associate Editor Molecular Phylogenetics & Evolution (2010-2011)

Associate Editor Journal of Phycology (2009-2010)

Associate Editor Phycological Research (2007-2010)

RESEARCH AREAS Eukaryotic Biodiversity, Comparative Genomics,

Molecular Evolution

EDUCATION Killam Postdoctoral fellow, Department of Botany

University of British Columbia, Vancouver, 2001-2003

Ph.D. in Biochemistry & Molecular Biology

Dalhousie University, Halifax, Nova Scotia, May 2001

B.Sc. (with 1st class Honours) in Biology

Dalhousie University Halifax, Nova Scotia, April 1997

PERSONAL Birth Date: 29 August 1971. Canadian Citizen.

SCHOLARSHIPS, FELLOWSHIPS, AWARDS AND DISTINCTIONS

2016-2021	Elected Member , College of New Scholars, Artists and Scientists of the Royal Society of Canada
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 CDN), 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 CDN), 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 (Applied for)

None at present.

RESEARCH GRANTS AND SUPPORT (Current)

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

RESEARCH GRANTS AND SUPPORT (Previous)

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

5 years plus research allowance (\$20,000/year)

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)—" <i>The causes and consequences of genome reduction in eukaryotes</i> ": \$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's 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". In kind contribution ~980,000 USD 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 —" <i>Laboratory for microbial genome analysis</i> ": \$312,020 PI—J. M. ARCHIBALD

PUBLICATIONS Google Scholar statistics: ~4,800 career citations (~2,600 since 2012), **h-index=37**; articles with >100 citations are highlighted. Archibald Lab trainees are underlined.

Primary research articles in refereed publications:

- Muñoz-Gómez, S. A., Mejía-Franco, F. G., Durnin, K., <u>Colp, M.</u>, <u>Grisdale, C. J.</u>, **Archibald, J. M.**, Slamovits, C. H. The new red algal subphylum Proteorhodophytina is defined by the largest and most divergent plastid genomes known. *Curr. Biol.* Under Review. *Role: Supervisor.*
- <u>Tanifuji, G., Curtis, B. A., Cenci, U., David, V., Dean, S., Fiala, I., Flegontov, P., Kelly, S., Johnson-MacKinnon, J., Moog, D., Nakayama, T., Onodera, N. T., Inagaki, Y., Hashimoto, T., Gull, K., Lukeš, J., and **Archibald, J. M.** Metabolic and cellular interdependence in a eukaryote-eukaryote symbiosis. *Scientific Rep.* Under Review. *Role: Project coordinator and senior author.*</u>
- 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. A non-photosynthetic diatom reveals early steps of reductive evolution in plastids. *Mol. Biol. Evol.* Under Review. *Role: Supervisor.*
- <u>de Vries, J.</u>, de Vries, S., Slamovits, C. H., Rose, L. E., and **Archibald, J. M.** 2017. How embryophytic is penylpropanoid biosynthesis in streptophyte algae? *Plant and Cell Physiol*. In Press. Role: Senior author and supervisor.
- 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.* Online-Early: doi: 10.1111/jeu.12394. *Role: senior author.*
- <u>de Vries, J., **Archibald, J. M.**</u>, and Gould, S. B. 2017. The carboxy terminus of YCF1 contains a motif conserved throughout >500 million years of streptophyte evolution. *Genome Biol. Evol.* Online-Early: doi: 10.1093/gbe/evx013. *Role: Supervisor*.
- Eme, L., Gentekaki, E., <u>Curtis, B.</u>, **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*.
- 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.*
- <u>Tanifuji, G., Archibald, J. M.</u>, 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.*
- 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.*
- <u>David, V.</u>, Flegontov, P., Gerasimov, E., <u>Tanifuji, G.</u>, Hashimi, H., Logacheva, M.D., <u>Maruyama, S.</u>, <u>Onodera, N. T.</u>, 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.*
- 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.*
- 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.*
- 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 B₁ uptake revealed with discovery of riboswitches in multiple marine eukaryotic lineages. *ISME Journal*. 8, 2517-2529. *Role: Co-author*.
- 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.*
- <u>Tanifuji, G., Onodera, N. T.,</u> Brown, M. W., <u>Curtis, B. A.</u>, 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.*
- <u>Tanifuji, G., Onodera, N. T., Moore, C. E. & Archibald, J. M.</u> 2014. Reduced nuclear genomes maintain high levels of gene transcription. *Mol. Biol. Evol.* 31, 625-635. *Role: Senior author.*
- 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.*
- 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.*
- Maruyama, S., Eveleigh, R. J. M. & **Archibald, J. M.** 2013. TreeTrimmer: a method for phylogenetic dataset size reduction. *BMC Research Notes*. 6, 145. *Role: Senior author.*
- Flegontov, P., Votypka, J., Skalicky, T., Logacheva, M. D., Penin, A. A., <u>Tanifuji, G., Onodera, N. T.</u>, Kondrashov, A. S., **Archibald, J. M.** & Lukeš, J. 2013. *Paratrypanosoma* is a novel trypanosomatid. *Curr. Biol.* 23, 1787-1793. Role: Co-senior author.
- Kim, E. & **Archibald, J. M.** 2013. Ultrastructure and molecular phylogeny of the cryptomonad *Goniomonas avonlea* sp. nov. *Protist.* 164, 160-182. *Role: Senior author.*
- 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*.
- 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.*
- 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: Pl, supervisor, project coordinator and senior author. Subject of Nature NEWS & VIEWS and several other commentaries

- 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.*
- 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.*
- 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.*
- 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*.
- Kim, E., Harrison, J., Sudek, S., Jones, M. D. M., Wilcox, H. M., Richards, T. A., Worden, A. Z., & **Archibald, J. M.** 2011. A newly-discovered 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 63 CITATIONS
- <u>Tanifuji, G., Onodera, N. T., Wheeler, T. J., Dlutek, M., Donaher, N. & Archibald, J. M.</u> 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.*
- Curtis, B. A. & **Archibald, J. M.** 2010. A spliceosomal intron of mitochondrial DNA origin. *Curr. Biol.* 20, R919-920. *Role: senior author.*
- <u>Tanifuji</u>, <u>G.</u> & **Archibald**, **J. M.** 2010. Actin gene family dynamics in cryptomonads and red algae. *J. Mol. Evol.* 71, 169-179. *Role: Senior Author.*
- <u>Silver, T. D., Moore, C. E.</u> & **Archibald, J. M.** 2010. Nucleomorph ribosomal DNA and telomere dynamics in chlorarachniophyte algae. *J. Euk. Microbiol.* 57, 453-459. *Role: Senior author.*
- 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.*
- <u>Donaher, N., Tanifuji, G., Onodera, N. T.</u>, 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.*
- 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.* 133 CITATIONS
- Ota, S., <u>Silver, T. D.</u>, **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.*
- 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.*

- Khan, H. & **Archibald**, **J. M**. 2008. Lateral transfer of introns in the cryptophyte plastid genome. *Nucleic Acids Res.* 36, 3043-3053. *Role: Senior author.*
- 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*.
- Cuvelier, M. L., Ortiz, A., <u>Kim, E.</u>, 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.*
- <u>Lane, C. E.</u> & **Archibald, J. M.** 2008. New members of the genus *Hemiselmis* (Cryptomonadales, Cryptophyceae). *J. Phycol.* 44, 339-450. *Role: Co-author.*
- <u>Phipps, K., Lane, C. E., Donaher, N. & Archibald, J. M.</u> 2008. Nucleomorph genome karyotype diversity in the cryptophyte genus *Cryptomonas. J. Phycol.* 44, 11-14 *Role: Senior author.*
- <u>Fong, M.</u> & **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.*
- <u>Silver, T. D.</u>, 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.*
- Khan, H., Kozera, C., Curtis, B. A., Tarrant Bussey, J., <u>Theophilou, S.</u>, 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.*
- 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.*
- 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 117 CITATIONS
- 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.* **115 CITATIONS**
- Ruiz-Trillo, I., <u>Lane, C. E.</u>, **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.*
- 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.*
- <u>Lane, C. E.</u> & **Archibald, J. M**. 2006. Novel nucleomorph genome architecture in the cryptomonad genus *Hemiselmis. J. Eukaryot. Microbiol.* 53, 515-521. *Role: Senior author.*
- 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.* **120 CITATIONS**

- 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.* 144 CITATIONS
- 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.*
- **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.*
- **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*. **226 CITATIONS 2 COMMENTARIES**
- **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.*
- **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.*
- 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.*
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- 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)

^{*}presenter

INVITED PRESENTATIONS (76 in total)

- 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). <u>Title</u>: *Molecular clocks:* using DNA to infer evolution.
- 2016—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. <u>Title</u>: *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. <u>Title</u>: *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. <u>Title</u>: *Endosymbiosis and genome mosaicism in microbial eukaryotes.*
- 2016—Invited plenary speaker, Harvard Plant Biology Symposium, May 2-3, Harvard University. <u>Title</u>: 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. <u>Title</u>: *Gene transfer in eukaryotes: frequency, patterns and implications.*
- 2015—Dalhousie University Department of Microbiology & Immunology Seminar Series. <u>Title</u>: 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. <u>Title</u>: 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. <u>Title</u>: *One plus one equals one:* symbiosis and the evolution of complex life.
- 2014—Acadia University Department of Biology Seminar Series (November 13). <u>Title</u>: 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. <u>Title</u>: *Nuclear organelles*.
- 2014—University of New Brunswick Department of Biology Seminar Series (October 3). <u>Title</u>: *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. <u>Title</u>: *Problems and progress in protistology*.
- 2014—Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, Annual Meeting, June 25-29, Czech Academy of Sciences, Czech Republic. <u>Title</u>: *Serial Endosymbiosis Theory: who said what, when and why.*

- 2014—"Kieler Woche Guest". 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). <u>Title</u>: *One plus one equals one: symbiosis and the evolution of complex life*.
- 2014—Concordia University Department of Biology Seminar Series (April 17). <u>Title</u>: 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. <u>Title</u>: *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. <u>Title</u>: *Genomic perspectives on the origin and spread of photosynthesis in eukaryotes*.
- 2013—Invited speaker, ICOP XIV (International Congress of Protistology), Vancouver, Canada. <u>Title</u>: Euks in euks: new perspectives from the Ichthyobodo-related endosymbionts of pathogenic amoebae.
- 2013—University of Ottawa Department of Biology Seminar Series. <u>Title</u>: One plus one equals one: endosymbiosis and genome mosaicism in the diversification of complex life.
- 2012—Queen Mary University of London, School of Biological and Chemical Sciences, Seminar Series.

 <u>Title</u>: 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—University of Cambridge Department of Biochemistry Seminar Series. <u>Title</u>: *Endosymbiosis, genome mosaicism and the evolution of photosynthetic eukaryotes.*
- 2012—Christian Albrechts University (Germany) Dalhousie University Joint Workshop. <u>Title</u>: *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. <u>Title</u>: Cellular evolution: modern perspectives on symbiosis and the diversification of complex life
- 2012—Invited speaker, Workshop on Biology and Evolution, Lisbon, Portugal. <u>Title</u>: *Genomics meets philosophy: symbiosis and the 'tree of life'*
- 2012—Invited speaker, Gordon Research Conference (Marine Microbes), Lucca, Italy. <u>Title</u>: *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. <u>Title</u>: One plus one equals one: secondary endosymbiosis and genome mosaicism in microbial eukaryotes.
- 2011—"Molecular evolution in the genomic era", Rome 3 University, Rome, Italy. <u>Title</u>: *Endosymbiosis* and genome mosaicism in secondary plastid-bearing eukaryotes.
- 2011—Evolutionary Genomics Workshop, Institute for Pure & Applied Mathematics, UCLA, CA. <u>Title</u>: *Genome mosaicism in microbial eukaryotes.*
- 2011—University of New Brunswick Department of Biology Seminar Series. <u>Title</u>: *Endosymbiosis and genome mosaicism in microbial eukaryotes*.

- 2011—Plant and Animal Genome XIX Conference, San Diego, CA. <u>Title</u>: *The genomes of nucleomorph-bearers*.
- 2010—Memorial Symposium for the 26th International Prize for Biology, Tsukuba, Japan. <u>Title</u>: *Endosymbiosis–a driver of molecular and cellular evolution.*
- 2010—11th International Colloquium on Endocytobiology and Symbiosis, Tromsø, Norway. <u>Title</u>: *Endosymbiosis and genome mosaicism in cryptophyte and chlorarachniophyte algae.*
- 2009—London Natural History Museum, Seminar Series, London, UK. <u>Title</u>: You are what you eat: endosymbiosis and genome evolution in unicellular eukaryotes.
- 2009—University of Exeter, School of Biosciences Seminar Series, Exeter, UK. <u>Title</u>: *Bonsai genomics:* origin and evolution of reduced endosymbiotic nuclear genomes.
- 2009—Mount Allison University Biochemistry Department Seminar Series. <u>Title</u>: You are what you eat: endosymbiosis and genome evolution in cryptophyte and chlorarachniophyte algae.
- 2009—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—Symposium speaker, 9th International Phycological Congress, Tokyo, Japan. <u>Title</u>: *Endosymbiotic* gene transfer and genome evolution in secondary plastid-containing algae: insights from cryptophytes and chlorarachniophytes.
- 2009—Symposium speaker, 17th Annual Meeting of the Society for Molecular Biology and Evolution. lowa City, Iowa. <u>Title</u>: *Vanishing nucleomorph genomes: Where do they go and how do they do it?*
- 2009—University of Geneva Departmental of Zoology and Animal Biology Seminar Series, Geneva, Switzerland. <u>Title</u>: 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. <u>Title</u>: *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—Canadian Institute for Advanced Research Junior Fellow Academy Meeting, Toronto, ON. Title: Intregrated Microbial Biodiversity Program
- 2009—Annual Meeting of the American Association for the Advancement of Science (AAAS), Darwin 'Mania' Symposium (organelles), Chicago, Illinois. <u>Title</u>: *Symbiosis as an evolutionary driver: mergers of cells and genomes.* Speaker and Chair.
- 2008—Tree of Life Workshop, Dalhousie University, Halifax, NS, Canada. Title: Cryptophytes.
- 2008—Mitochondria, ribosomes & cells: a symposium in honour of Mike Gray, Dalhousie University, Halifax, NS, Canada. <u>Title</u>: *Endosymbiosis and eukaryotic genome evolution*.
- 2008—Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, 2nd Ann. Meeting. Lac Carling, Quebec, Canada. Title: *Nucleomorph genomes: "where are we now?"*
- 2008—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—Dalhousie University Department of Biology Seminar Series. Title: Going, going, not quite gone: the weird and wonderful world of endosymbiotic nuclear genomes.
- 2007—University of Toronto Department of Ecology & Evolution Seminar Series. <u>Title</u>: *Bonsai genomics:* understanding the process of genome reduction in eukaryotes.
- 2007—Canadian Institute for Advanced Research, Integrated Microbial Biodiversity Program, 1st Ann. Meeting. Vancouver, British Columbia, Canada. <u>Title</u>: *Endosymbiosis, gene transfer and eukaryotic evolution.*
- 2007—American Genetic Association Annual Meeting, Bloomington, IA. <u>Title</u>: *Genome reduction in eukaryotes: nucleomorph genomes as a case study.*
- 2007—Second Annual US DOE Joint Genome Institute User Meeting, Walnut Creek, CA. <u>Title</u>: *Impact of secondary endosymbiosis on genome evolution and cell biology: a cryptomonad and a chlorarachniophyte nuclear genome.*
- 2007—4th European Phycological Congress, Oviedo, Spain. <u>Title</u>: Secondary endosymbiosis and genome evolution: the nuclear and nucleomorph genomes of cryptophyte and chlorarachniophyte algae.
- 2007—Acadia University Biology Department Seminar Series. <u>Title</u>: *Bonsai genomics: understanding the process of genome reduction in eukaryotes.*
- 2007—Canadian Institute for Advanced Research, Evolutionary Biology Program, 18th Ann. Meeting. Halifax, NS, Canada. Title: *Genome evolution writ small.*
- 2006—Microbial Biodiversity Workshop, Banff, Alberta, Canada. <u>Title</u>: *Genome size diversity in microbial eukaryotes*.
- 2005—Canadian Institute for Advanced Research, Workshop on Microbial Biodiversity, Vancouver, BC, Canada. <u>Title</u>: *The nucleus and nucleomorph of cryptomonad algae—two extremes of a genomic continuum*.
- 2005—Annual General Meeting of the Canadian Society for Microbiologists, Halifax, NS, Canada. <u>Title</u>: *Presentation on "Careers in Academia" as part of roundtable discussion.*
- 2004—Canadian Institute for Advanced Research, Evolutionary Biology Program, 17th Ann. Meeting. Pine Hill, Quebec, Canada. Title: *On the feeding habits of chlorarachniophyte algae*.
- 2004— 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. <u>Title</u>: Lateral gene transfer and the plastid proteome of algae.
- 2003—Department of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Nova Scotia, Canada. Title: *Lateral gene transfer and the plastid proteome of algae*.
- 2002—Canadian Institute for Advanced Research, Evolutionary Biology Program, 16th Ann. Meeting. Harrison Hot Springs, British Columbia, Canada. <u>Title</u>: *Phylogenetic origins of the host and endosymbiont components of chlorarachniophyte algae.*
- 2002—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—Department of Biochemistry and Molecular Biology, Dalhousie University, Halifax, Nova Scotia, Canada. Title: *Recycled plastids: a green (and red) movement in eukaryotic evolution*.

- 2002—Department of Botany, University of British Columbia, Vancouver, British Columbia, Canada. Title: Gene duplication, gene conversion and the evolution of group II chaperonins.
- 2001—Izaak Walton Killam Memorial Fellowship Committee Banquet, University of British Columbia, Vancouver, British Columbia, Canada. <u>Title</u>: *Origin and evolution of apicomplexan parasites*.
- 2001—Canadian Institute for Advanced Research, Evolutionary Biology Program, 15th Ann. Meeting. Val David, Quebec, Canada. <u>Title</u>: *Gene conversion and the evolution of archaeal chaperonins: a likelihood method for detecting recombination*.
- 2000—Center for International Meetings on Biology, Workshop on Chaperonins: Structure and Function. Madrid, Spain. <u>Title</u>: *Gene duplication and the evolution of CCT/TriC*.

PUBLIC AWARENESS / OUTREACH / EDUCATION

- 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. <u>Title</u>: *Lynn Margulis* (1938-2011).
- 2012—*Invited public lecture*. Rethinking Biology and Evolution: New Approaches for the New Century, Lisbon, Portugal. <u>Title</u>: *Cellular evolution: modern perspectives on symbiosis and the diversification of complex life*
- 2010—Invited presentation. <u>Title</u>: How do Microbes Rule the World? 'The Next Big Question' National Tour, sponsored by the Canadian Institute for Advanced Research.
- 2009—**Newspaper article**. <u>Title</u>: Government should care about research. *The Chronicle Herald, February 18.*
- 2008—**Newspaper article**. <u>Title</u>: 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. <u>Title</u>: *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. <u>Title</u>: 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. <u>Title</u>: Presentation on "Careers in Academia"

BOOK AND BOOK CHAPTER REVIEWER

CRC Press

Oxford University Press

Quarterly Review of Biology (published review of Genomics and Evolution of Microbial Eukaryotes, Katz and Bhattacharya, eds.)

Pearson Publishing Springer (2 books)

W.H. Freeman and Company (provided revisions and updates to 3rd edition of Five Kingdoms, Margulis & Schwartz)

MANUSCRIPT REVIEWER (223 manuscripts for the following 48 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 (3), BMC Evolutionary Biology (9), BMC Genomics (4), Botanica Marina (1), Current Biology (18), Encyclopedia of Life Sciences (1), Eukaryotic Cell (3), Evolutionary Bioinformatics (1), FEBS Letters (1), Gene (2), Genome Biology (1), Genome Biology and Evolution (16), International Journal for Parasitology (1), International Journal of Biochemistry and Cell Biology (2), International Journal of Systematic and Evolutionary Microbiology (2), Journal of Biological Chemistry (1), Journal of Eukaryotic Microbiology (3), Journal of Molecular Evolution (19), 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 (38), Molecular Ecology Resources (1), Molecular Genetics and Genomics (2), Molecular Phylogenetics and Evolution (2), Nature (7), Nature Communications (4), Nature Ecology & Evolution (1), New Phytologist (2), Nucleic Acids Research (2), PLoS Biology (1), PLoS Genetics (1), Proceedings of the National Academy of Sciences, USA (21), Proceedings of the Royal Society of London (3), Protist (8), Science (6), Science Advances (1), Symbiosis (2), Trends in Ecology and Evolution (1), Trends in Genetics (2), Trends in Microbiology (1), Trends in Plant Science (1)

INVITED JOURNAL EDITORSHIPS AND BOARD MEMBERSHIPS

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-present	Editorial Board Member , Environmental Microbiology (International peer-reviewed journal)
2013-present	Editorial Board Member, Eukaryotic Cell (International peer-reviewed journal)
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 (International peer-reviewed journal)
2010-2011	Associate Editor, Molecular Phylogenetics & Evolution (International 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

2015	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

2017-2020 2016 2016	Steering Committee Member, Royal Society of Canada, Atlantic Division Co-Lead Organizer, Trainee Summit, EMBL, Heidelberg, Germany. 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 , 12 th 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 17 th 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
2008	National Science Foundation" (sponsored by NSF, April 3-6, Washington, DC, USA) Scientific Committee Member , 16 th Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain

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

Spain

Scientific Committee Member, 15th Annual Meeting of the International Society for 2007

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)

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

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.

International symposium organizer ("Origin and evolution of photosynthetic life"), 2005

Joint meeting of the International Society for Molecular Biology and Evolution and the

Australasian Genetic Association, Aukland, New Zealand.

Invited participant, Genome Canada/Environment Canada-sponsored Workshop 2003 2002-2004 North American Councilor, International Society for Evolutionary Protistology

PROFESSIONAL AFFILIATIONS

2017-	Nova Scotian Institute of Science
2007-present	International Society of Endocytobiology
2004-2005	Nova Scotian Institute of Science
2003-present	Canadian Institute for Advanced Research
2002-present	International Society of Protistologists
1000-nresent	International Society for Evolutionary Profistolog

International Society for Evolutionary Protistology 1999-present

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

UNIVERSITY AND DEPARTMENTAL ADMINISTRATIVE ACTIVITIES

2016–2018	Member , Department of Biochemistry & Molecular Biology Academic Committee
2016	<i>Member</i> , 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
2016-2019	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
2014 2010	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-present	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–present 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 (international)

- 2017—PhD External Examiner for Sebastian Wittek, Mathematisch-Naturwissenschaftlichen Fakultät der Universität zu Köln. <u>Thesis Title</u>: *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. <u>Thesis Title</u>: *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. <u>Thesis Title</u>: 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. <u>Thesis Title</u>: *Multigene studies of cercozoan phylogeny and evolution*.
- 2009—PhD External Examiner for Fabien Burki, Department of Zoology and Animal Biology, University of Geneva, Switzerland. <u>Thesis Title</u>: 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

Gina Filloramo, Ph.D.

Jan de Vries, Ph.D.

Anna Åsman, Ph.D.

Cameron Grisdale, Ph.D.

March 2017-present
September 2016-present
February 2015-present

Daniel Moog, Ph.D. April 2014-May 2016 (Current position: Postdoctoral fellow, Marburg,

Germany)

Ugo Cenci, Ph.D. February 2014-January 2016 (Current position: Postdoctoral fellow,

Lille, France)

Gillian Gile, Ph.D. December 2013-August 2015 (**Current position**: Faculty member,

Arizona State University, Tempe)

Bruce Curtis, Ph.D. December 2012-present

Ansgar Gruber, Ph.D. September 2012-September 2013 (Current position: postdoctoral

fellow, Germany)

Jimeng Hua, Ph.D. April 2 Takuro Nakayama, Ph.D. June Shinichiro Maruyama, Ph.D. Nover

April 2012-May 2013 (<u>Current position:</u> postdoctoral fellow, China)
June 2011-April 2013 (<u>Current position:</u> postdoctoral fellow, Japan)
November 2009-March 2013 (<u>Current position:</u> 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: postdoctoral fellow,

University of Toronto)

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

Graduate Students

Shannon Sibbald September 2015-present (funded by NSERC scholarship)

Vojtech David, M.Sc. September 2015-present

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 September 2008-2011

MSc Thesis: "Being Aquifex aeolicus: untangling a hyperthermophile's

checkered past"

Natalie Donaher September 2006-Spring 2009 (NSERC CGS Scholarship recipient)

MSc Thesis: "The complete plastid genome sequence of the secondarily

non-photosynthetic alga <u>Cryptomonas paramecium</u> 977/2a"

Tia Silver 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

Morgan Colp 2016-present, 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 David2013, summer studentRebecca Gibeault2010-11, Honours studentKatherine Richman2010-11, Honours studentJames GiffinSummer research volunteer

Tyler Mills 2009-10, summer and Honours student

Matthew MacDowell2008-09, Honours studentZach Fitzsimmons2007-08, 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 DlutekFall 2007–PresentKatrin SommerfeldFall 2007-summer 2010Anna FongWinter 2004–Fall 2007

Research Assistants

Jesssica Johnson-MackinnonMay 2013-December 2013Robert EveleighJanuary 2012-April 2012Naoko TanifujiJanuary 2009-August 2013Tia SilverJanuary 2009-April 2009Robert EveleighMay 2008-August 2008Christa MooreApril 2008-August 2008

High School Student Job Shadows

Matt HoodJuly-August, 2008, Sackville High SchoolAlex SisleyJanuary 13, 2006, J. L. Ilsley High SchoolMatthew PonsfordNovember 26, 2004, J. L. Ilsley High School