Alastair Geoffrey Brinley Simpson

Curriculum Vitae

Born: 17 July, 1973, Sydney, Australia

Citizenship: Australian, British; Permanent resident of Canada

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ACADEMIC QUALIFICATIONS AND APPOINTMENTS

2013-present: Professor, Department of Biology, Dalhousie University, Canada

2008-2013: Associate Professor, Department of Biology, Dalhousie University, Canada

2009-2017: Fellow/Senior Fellow, Canadian Institute for Advanced Research (CIfAR), Program in Integrated Microbial Biodiversity.

2007-2008: Scholar, CIfAR, Program in Integrated Microbial Biodiversity.

2003-2008: Assistant Professor, Department of Biology, Dalhousie University, Canada, *and* Scholar, Canadian Institute for Advanced Research (CIfAR), Evolutionary Biology

2000-2003: CIHR Postdoctoral Fellow, Dalhousie University, Canada

1995-2000: Ph.D, University of Sydney, Australia.

1991-1994: B.Sc. (Honours First Class), University of Sydney, Australia

AWARDS, FELLOWSHIPS AND SCHOLARSHIPS

2013: Seymour H. Hutner Young Investigator Prize (Annual award for research excellence, awarded by ISoP, to a eukaryotic microbiologist, within 15 years of their Ph.D)

2010: Dalhousie Faculty of Science Killam Prize (outstanding research as a young professor)

2007-2017: Scholar/Fellow/Senior Fellow, Canadian Institute for Advanced Research (CIfAR), program in Integrated Microbial Biodiversity.
(Support in the form of research allowance; see page 10 - 'Research Support – Other')

2003-2008:	Scholar, CIfAR, program in Evolutionary Biology	$Can 70,000 p.a.
2000-2003:	Canadian Institutes of Health Research Postdoctoral Fellowship	$Can 38,000 p.a.
1997:	Bernard Davis Fund Fellowship, MBL, Woods Hole	$US 8,928
1996-1999:	Australian Postgraduate Award (APA) Scholarship	$Aus 15,300 p.a.

PUBLICATION HIGHLIGHTS

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***h*-index:** 43 (Google Scholar data) / 37 (Thomson ISI data)

Total citations: >10,000 (Google Scholar) / >5,500 (ISI)

Max citation year: 2016 (1139 citations - Google Scholar; 581 citations - ISI)

Notes: Trainees (at time the bulk of the research was conducted) are underlined (includes co-supervised graduate students). Retraining visiting professor indicated in *italics.* * = Joint first authors or joint corresponding authors. 100+ = >100 Google Scholar citations

PEER-REVIEWED JOURNAL PUBLICATIONS

2018

95. Lax, G.*, Eglit, Y.*, Eme, L.*, Bertrand, E. Roger, A.J. & **Simpson, A.G.B** (2018) Hemimastigophora is a novel supra-kingdom-level lineage of eukaryotes**.** *Nature* **564:** 410-414. **[This paper received substantial coverage in mainstream and scientific press, both nationally and internationally; e.g. https://tinyurl.com/ycjt9sh9, https://tinyurl.com/ya2e9xak]**

94. More, K., **Simpson A.G.B.** & Hess, S. (2018) Two new marine species of *Placopus* (Vampyrellida, Rhizaria) that perforate the theca of *Tetraselmis* (Chlorodendrales, Viridiplantae). *Journal of Eukaryotic Microbiology*. doi:10.1111/jeu.12698

93. Goodwin, J.D., Lee, T.F., Kugrens, P. & **Simpson, A.G.B** (2018) *Allobodo chlorophagus* n. gen n. sp, a kinetoplastid that infiltrates and feeds on the invasive alga *Codium fragile*. *Protist* **169:** 911-925.

92. Buchwald, R., Scheibling R. E., & **Simpson A.G.B.** (2018) Detection and quantification of a keystone pathogen in a coastal marine ecosystem. *Marine Ecology Progress Series* **606:** 79-90.

91. Heiss, A.A.*, Kolisko, M.*, Ekelund, F., Brown M.W., Roger, A.J., **Simpson, A.G.B.** (2018). Combined morphological and phylogenomic re-examination of malawimonads, a critical taxon for inferring the evolutionary history of eukaryotes. *Royal Society Open Science,* **5:** 171707.

90. Brown, M.W., Heiss, A.A., Kamikawa, R., Inagaki, Y., Yabuki, A., Tice, A. K., Shiratori, T., Ishida, K., Hashimoto, T., **Simpson, A.G.B.*,** Roger, A.J.* (2018) Phylogenomics places orphan protistan lineages as deep sisters to Amorphea and identifies a novel eukaryotic super-group. *Genome Biology and Evolution,* **10:** 427-433.

89. Harding, T. & **Simpson, A.G.B.** (2018) Recent advances in halophilic protozoa research. *Journal of Eukaryotic Microbiology,* **65:** 556-570.

2017

88. Yang, J., Harding, T., Kamikawa, R., **Simpson, A.G.B.** & Roger A.J. (2017) Mitochondrial genome evolution and a novel RNA editing system in deep-branching heteroloboseids. *Genome Biology and Evolution* **9:** 1161-1174.

87. Harding, T., Roger, A.J. & **Simpson, A.G.B.** (2017) Adaptations to high salt in a halophilic protist: Differential expression and gene acquisitions through duplications and gene transfers. *Frontiers in Microbiology* **8:** 944

86. Leger, M.M.*, Kolisko, M.*, Kamikawa, R.*, Stairs, C.W., Kume, K., Čepicka, I., Silberman, J.D., Andersson, J.O., Xu, F. Yabuki, A., Eme, L., Zhang, Q., Takishita, K., Inagaki, Y., **Simpson, A.G.B**., Hashimoto, T. & Roger, A.J. (2017) Organelles that illuminate the origins of *Trichomonas* hydrogenosomes and *Giardia* mitosomes. *Nature Ecology and Evolution* **1:** 0092

2016

85. Novák, L., Zubáčová, Z., Karnkowska, A. Kolisko, M., Hroudová, M., Stairs, C.W., **Simpson, A.G.B.**, Keeling, P.J., Roger, A.J., Čepička, I. & Hampl, V. (2016) Arginine deiminase pathway enzymes: evolutionary history in metamonads and other eukaryotes. *BMC Evolutionary Biology* **16:** 197

84. Xu, F., Jerlström-Hultqvist, J., Kolisko, M., **Simpson, A.G.B.**, Roger, A.J., Svärd, S.G., Andersson, J.O. (2016) On the reversibility of parasitism: adaptation to a free-living lifestyle via gene acquisitions in the diplomonad *Trepomonas* sp. PC1. *BMC Biology* **14:** 62

83. Harding, T., Brown, M., **Simpson, A.G.B.** & Roger, A.J. (2016) Osmoadaptive strategy and its molecular signature in obligately halophilic heterotrophic protists. *Genome Biology and Evolution* **8:** 2241-2258

82. Park, J.S. & **Simpson, A.G.B.** (2016). Characterization of a deep-branching heterolobosean, *Pharyngomonas turkanaensis* n. sp., isolated from a non-hypersaline habitat, and ultrastructural comparison of cysts and amoebae among *Pharyngomonas* strains. *Journal of Eukaryotic Microbiology* **63:** 100-111

2015

81. Zhang, Q., Táborský, P., Silberman, J.D., Pánek, T., Čepička, I. & **Simpson, A.G.B.** (2015) Marine isolates of *Trimastix marina* form a plesiomorphic deep-branching lineage within Preaxostyla, separate from other known trimastigids (*Paratrimastix* n. gen.). *Protist* **166:** 468-491

80. Heiss, A.A.*, *Lee, W.J.*. Ishida K. & **Simpson, A.G.B.** (2015) Cultivation and characterisation of new species of apusomonads (the sister group to opisthokonts), including close relatives of *Thecamonas* (*Chelonemonas* n. gen.). *Journal of Eukaryotic Microbiology* **62:** 637-649

79. Park, J.S. & **Simpson, A.G.B** (2015) Diversity of heterotrophic protists from extremely hypersaline habitats. *Protist*, **166:** 422-437.

78. Buchwald, R.T., Feehan, C.J., Scheibling, R.E. & **Simpson, A.G.B.** (2015) Low temperature tolerance of a sea urchin pathogen: implications for benthic community dynamics in a warming ocean. *Journal of Experimental Marine Biology and Ecology*, **469:** 1-9.

77. Kirby, W.A., Tikhonenkov, D.V., Mylnikov, A.P., Janouškovec, J., Lax, G., & **Simpson, A.G.B.** (2015) Characterisation of *Tulamoeba bucina* n. sp., an extremely halotolerant amoeboflagellate heterolobosean belonging to the *Tulamoeba-Pleurostomum* clade (Tulamoebidae n. fam.). *Journal of Eukaryotic Microbiology*, **62:** 227-238.

2014

76. *Lee, W.J.* & **Simpson, A.G.B.** (2014) Morphological and molecular characterisation of *Notosolenus urceolatus* Larsen and Patterson 1990, a member of an understudied deep-branching euglenid group (petalomonads). *Journal of Eukaryotic Microbiology*, **61:** 463-479.

75. Keeling, P.J. …..**Simpson, A.G.B.**,…..& Worden, A.Z. (81 authors) (2014) The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the functional diversity of eukaryotic life in the oceans through transcriptome sequencing. *PLoS Biology*, **12:** e1001889

74. Panek, T., **Simpson, A.G.B.**, Hampl, V. & Cepicka, I. (2014) *Creneis carolina* gen. et sp. nov. (Heterolobosea), a novel marine anaerobic protist with strikingly derived morphology and life cycle. *Protist,* **165:** 542-567.

73. *Lee, W.J.* & **Simpson, A.G.B.** (2014) Ultrastructure and molecular phylogenetic position of *Neometanema parovale sp. nov.* (*Neometanema gen. nov.*), a marine phagotrophic euglenid with skidding motility, *Protist,* **165:** 452-472.

72. *Lee, W.J.,* Miller, K. & **Simpson, A.G.B.** (2014) Morphological and molecular characterisation of a new species of *Stephanopogon*, *Stephanopogon pattersoni* n. sp. *Journal of Eukaryotic Microbiology*, **61:** 389-398.

2013

71. Lax, G. & **Simpson, A.G.B.** (2013) Combining molecular data with classical morphology for uncultured phagotrophic euglenids (Excavata); A single-cell approach. *Journal of Eukaryotic Microbiology*, **60:** 615-625.

70. Brown, M.W., Sharpe, S.C., Silberman, J.D., Heiss, A.A., Lang, B.F., **Simpson, A.G.B.** & Roger, A.J. (2013) Phylogenomics demonstrates that breviate flagellates are related to opisthokonts and apusomonads. *Proceedings of the Royal Society, series B* **280:** 20131755.

69. Kamikawa, R., Brown, M.W., Nishimura Y., Sako, Y., Heiss, A.A., Yubuki, N., Gawryluk, R., **Simpson, A.G.B.,** Roger, A.J., Hashimoto, T., Inagaki, Y. (2013) Parallel re-modeling of EF-1α function: Divergent EF-1α genes co-occur with EFL genes in diverse distantly related eukaryotes. *BMC Evolutionary Biology* **13:** e131.

68. Heiss, A.A., Walker, G. & **Simpson, A.G.B.** (2013) The microtubular cytoskeleton of the apusomonad *Thecamonas*, a sister lineage to the opisthokonts. *Protist,* **164:** 598–621

67. Yubuki, N., **Simpson, A.G.B.** & Leander, B.S. (2013) Comprehensive ultrastructure of *Kipferlia bialata* provides evidence for character evolution within the Fornicata. *Protist,* **164:** 423-439.

66. Heiss, A.A.*, Walker, G.* & **Simpson, A.G.B.** (2013) The flagellar apparatus of *Breviata anathema*, a eukaryote without a clear supergroup affinity. *European Journal of Protistology,* **49:** 354-372.

65. Feehan, C.J.*, Johnson-Mackinnon, J.*, Scheibling, R.E., Lauzon-Guay, J.-S. & **Simpson A.G.B.** (2013) Validating the identity of *Paramoeba invadens*, the causative agent of recurrent mass mortality of sea urchins in Nova Scotia. *Diseases of Aquatic Organisms,* **103:** 209-227.

64. O'Malley, M. **Simpson, A.G.B.** & Roger, A.J. (2013) The other eukaryotes in light of evolutionary protistology. *Biology and Philosophy,* **28:** 299-330.

63. Harding T., Brown, M.W., Plotnikov, A., Selivanova, E., Park, J.S., Gunderson, J.H., Baumgartner, M., Silberman, J.D., Roger, A.J. & **Simpson, A.G.B.** (2013) Amoeba stages in the deepest branching heteroloboseans, including *Pharyngomonas*: Evolutionary and systematic implications. *Protist,* **164:** 272-286.

62. Yubuki, N., **Simpson, A.G.B.** & Leander, B.S. (2013) Reconstruction of the feeding apparatus in *Postgaardi mariagerensis* provides evidence for character evolution within the Symbiontida. *European Journal of Protistology,* **49:** 32-39.

2012

61. Pawlowski, J. and 32 others (2012) CBOL Protist working group: Barcoding eukaryotic richness beyond the animal, plant and fungal kingdoms. *PLoS Biology,* **10:** e1001419.

60. Park, J.S., DeJonckheere, J.F. & **Simpson, A.G.B.** (2012) Characterization of *Selenaion koniopes* n. gen., n. sp., an amoeba that represents a new major lineage within Heterolobosea, isolated from the Wieliczka salt mine. *Journal of Eukaryotic Microbiology,* **59:** 601-613.

59. Adl, S.M., **Simpson, A.G.B**., & 23 others (2012) The revised classification of eukaryotes. *Journal of Eukaryotic Microbiology,* **59:** 429-514. **[Systematic review led by committee of four, inc. AGB Simpson; >1000 Google scholar citations]**

58. Zhang, Q., **Simpson, A.G.B.** & Song, W. (2012) Insights into the phylogeny of systematically controversial haptorian ciliates (Ciliophora, Litostomatea) based on multigene analyses. *Proceedings of the Royal Society, series B.,* **279:** 2625-2635.

57. Takishita, K*., Kolisko, M.*, Komatsuzaki, H., Yabuki, A., Inagaki, Y., Čepička, I., Smejkalová, P., Silberman, J.D., Hashimoto, T., Roger, A.J. & **Simpson, A.G.B.** (2012) Multigene phylogenies of diverse *Carpediemonas*-like organisms identify the closest relatives of 'amitochondriate' diplomonads and retortamonads. *Protist*, **163:** 344-355.

2011

56. Park, J.S. & **Simpson A.G.B.** (2011) Characterization of *Pharyngomonas kirbyi* (= "*Macropharyngomonas halophila*" nomen nudum), a very deep-branching, obligately halophilic heterolobosean flagellate. *Protist,* **162:** 691-709.

55. Mora, C.**,** Tittensor, D.P., Adl, S., **Simpson A.G.B.,** Worm, B. (2011) How many species are there on Earth and in the Ocean? *PLoS Biology* **9:** e1001127. **[>1400 Google scholar citations]**

54. Heiss, A.A., Walker, G. & **Simpson A.G.B.** (2011) The ultrastructure of *Ancyromonas*, a eukaryote without supergroup affinities. *Protist,* **162:** 373-393.

53. Tong, J., Dolezal, P., Selkrig, J., Crawford, S., **Simpson, A.G.B.**, Noinaj, N., Buchanan, S.K., Gabriel, K. & Lithgow, T. (2011) Ancestral and derived protein import pathways in the mitochondrion of *Reclinomonas americana*. *Molecular Biology and Evolution,* **28:** 1581-1591.

2010

52. Park, J.S. Kolisko, M. & **Simpson A.G.B.** (2010) Cell morphology and formal description of *Ergobibamus cyprinoides* n. gen., n. sp., another *Carpediemonas*-like relative of diplomonads. *Journal of Eukaryotic Microbiology,* **57:** 520-528.

51. Kolisko, M., Silberman, J.D., Čepička, I., Yubuki, N., Takishita, K., Yabuki, A., Leander, B.S., Inouye, I., Inagaki, Y., Roger, A.J. & **Simpson, A.G.B.** (2010) A wide diversity of previously undetected relatives of diplomonads isolated from marine/saline habitats. *Environmental Microbiology,* **12:** 2700-2710.

50. 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. *The ISME Journal,* **4:** 1108-1120.

49. Heiss, A.A., Walker, G., & **Simpson, A.G.B.** (2010) Clarifying the taxonomic identity of a phylogenetically important group of eukaryotes: *Planomonas* is a junior synonym of *Ancyromonas*. *Journal of Eukaryotic Microbiology,* **57:** 285-293.

48. Park, J.S. & **Simpson, A.G.B.** (2010) Characterisation of halotolerant Bicosoecida and Placididea (Stramenopila) that are distinct from marine forms, and the phylogenetic pattern of salinity preference in heterotrophic stramenopiles. *Environmental Microbiology,* **12:** 1173-1184.

2009

47. Park, J.S., Kolisko, M., Heiss, A.A. & **Simpson, A.G.B.** (2009) Light microscopic observations, ultrastructure, and molecular phylogeny of *Hicanonectes teleskopos* n. gen., n. sp., a deep-branching relative of diplomonads. *Journal of Eukaryotic Microbiology,* **56:** 373-384.

46. Hampl V., Hug L., Leigh J., Dacks J.B., Lang B.F., **Simpson A.G.B.** & Roger A.J. (2009) Phylogenomic analyses support the monophyly of Excavata and robustly resolve relationships among eukaryotic "supergroups". *Proceedings of the National Academy of Sciences USA*, **106:** 3859-3864. **[>400 Google Scholar Citations]**

45. Park J.S., **Simpson, A.G.B.**, Brown, S. & Cho B.C. (2009) Ultrastructure and molecular phylogeny of two heterolobosean amoebae, *Euplaesiobystra hypersalinica* gen. et sp. nov. and *Tulamoeba peronaphora* gen. et sp. nov., isolated from an extremely hypersaline habitat. *Protist*, **160:** 265-283.

2008

44. Sanchez-Perez, G.F., Hampl, V., **Simpson, A.G.B.** & Roger, A.J. (2008) A new divergent type of eukaryotic methionine adenosyltransferase spread by gene transfer between secondary algae. *Journal of Eukaryotic Microbiology*, **55:** 374-381.

43. Kolisko, M., Cepicka, I., Hampl, V., Leigh, J., Roger, A.J., Kulda, J., **Simpson, A.G.B.** & Flegr, J. (2008) Molecular phylogeny of diplomonads and enteromonads based on SSU rRNA, α-tubulin

and HSP90 genes: implications for the evolutionary history of the double karyomastigont of diplomonads. *BMC Evolutionary Biology*, **8:** art.205.

42. **Simpson, A.G.B.,** Perley, T. & Lara, E. (2008) Lateral transfer of the gene for a widely used marker, alpha tubulin, indicated by a multi-protein study of the phylogenetic position of *Andalucia* (Excavata). *Molecular Phylogenetics and Evolution*, **47:** 366-377.

2007

41. Adl. S.M., Leander, B.S., & 18 others (2007) Diversity, nomenclature and taxonomy of protists. *Systematic Biology,* **56:** 684-689.

40. Park, J.S., **Simpson A.G.B.,** Lee, W.J. & Cho, B.C. (2007) Ultrastructure and phylogenetic placement within Heterolobosea of the previously unclassified, extremely halophilic heterotrophic flagellate *Pleurostomum flabellatum* (Ruinen 1938). *Protist*, **158:** 397-413.

2006

39. Kim, E., **Simpson, A.G.B.** & Graham, L.E. (2006) Evolutionary relationships of apusomonads inferred from taxon-rich analyses of six nuclear-encoded genes. *Molecular Biology and Evolution,* **23:** 2455-2466.

38. **Simpson A.G.B.,** Stevens, J.R. & Lukes J. (2006) The evolution and diversity of kinetoplastid flagellates. *Trends in Parasitology,* **22:** 168-174. **[>250 Google Scholar citations]**

37. Park, J.S., Cho, B.C. & **Simpson A.G.B.** (2006) *Halocafeteria seosinensis* gen. et sp. nov. (Bicosoecida) A halophilic bacterivorous nanoflagellate isolated from a solar saltern. *Extremophiles,* **10:** 493-504.

36. **Simpson A.G.B.,** Inagaki, Y. & Roger, A.J. (2006) Comprehensive multi-gene phylogenies of excavate protists reveal the evolutionary positions of 'primitive' eukaryotes. *Molecular Biology and Evolution*, **23:** 615-625. **[~200 Google Scholar citations]**

35. Lara, E., Chatzinotas, A. & **Simpson, A.G.B.** (2006) *Andalucia* (gen. nov,): a new taxon for the deepest branch within jakobids (Jakobida; Excavata), based on morphological and molecular study of a new flagellate from soil. *Journal of Eukaryotic Microbiology,* **53:** 112-120.

2005

34. Adl, S.M., **Simpson, A.G.B**., & 26 others (2005) The new higher-level classification of eukaryotes with emphasis on the taxonomy of protists. *Journal of Eukaryotic Microbiology*, **52:** 399-451. **[Systematic review led by committee of four, inc. AGB Simpson; >1500 Google Scholar citations]**

33. Lee, W.J., **Simpson, A.G.B.** & Patterson D.J. (2005) Free-living heterotrophic flagellates from freshwater sites in Tasmania (Australia), a field survey. *Acta Protozoologica,* **44:** 321-350.

32. Miao, W., **Simpson, A.G.B.,** Fu, C. & Lobban C.S. (2005) The giant zooxanthellae-bearing ciliate *Maristentor dinoferus* (Heterotrichea) is closely related to Folliculinidae. *Journal of Eukaryotic Microbiology*, **52:** 11-16.

2004

31. **Simpson, A.G.B.**, Gill, E.E., Callahan, H.A., Litaker, R.W., & Roger, A.J. (2004) Early evolution within kinetoplastids (Euglenozoa), and the late emergence of trypanosomatids. *Protist*, **155:** 407-422.

30. Inagaki, Y, **Simpson A.G.B**., Dacks J.B. & Roger A.J. (2004) Phylogenetic artifact can be caused by leucine, serine and arginine codon usage heterogeneity: dinoflagellate plastid origins as a case study. *Systematic Biology*, **53:** 582-593.

29. Brugerolle G. & **Simpson A.G.B.** (2004) The flagellar apparatus of Heterolobosea. *Journal of Eukaryotic Microbiology,* **51**: 96-107.

28. **Simpson A.G.B.** & Roger A.J. (2004) Protein phylogenies robustly resolve the deep-level relationships within Euglenozoa. *Molecular Phylogenetics and Evolution*, **30**: 201-212.

2003

27. Simpson A.G.B. (2003) Cytoskeletal organisation, phylogenetic affinities and systematics in the contentious taxon Excavata (Eukaryota). *International Journal of Systematic and Evolutionary Microbiology*, **53:** 1759-1777. **[>200 Google Scholar citations]**

2002

26. Simpson A.G.B., Lukes J. & Roger A.J. (2002) Evolutionary history of kinetoplastids, and their kinetoplasts. *Molecular Biology and Evolution* **19**: 2071-2083. [100+]

25. **Simpson A.G.B.**, MacQuarrie E.K., & Roger A.J. (2002) Early evolution of canonical introns. *Nature* **419:** 270.

24. **Simpson A.G.B.,** Roger A.J., Silberman J.D., Leipe, D.D., Edgcomb V.P., Jermiin, L.S., Patterson, D.J. & Sogin M.L. (2002) Evolutionary history of 'early diverging' eukaryotes: The excavate taxon *Carpediemonas* is a close relative of *Giardia*. *Molecular Biology and Evolution* **19**: 1782-1791. [100+]

23. Al-Qassab S., Lee W.J., Murray S., **Simpson A.G.B.** & Patterson D.J. (2002) Flagellates from stromatolites and surrounding sediments in Shark Bay, Western Australia. *Acta Protozoologica* **41:** 91-144.

22. **Simpson A.G.B.,** Radek R., Dacks J.B. & O'Kelly, C.J. (2002) How oxymonads lost their groove: An ultrastructural comparison of *Monocercomonoides* and excavate taxa. *Journal of Eukaryotic Microbiology.* **49:** 239-248.

21. Edgcomb V.P., **Simpson A.G.B.,** Amaral Zettler L., Nerad T.A., Patterson D.J., Holder M.E. & Sogin M.L. (2002) Pelobionts are degenerate protists: insights from molecules and morphology. *Molecular Biology and Evolution.* **19:** 978-982.

20. Silberman J.D., **Simpson A.G.B.**, Kulda J., Cepicka I., Hampl V., Johnson P.J. & Roger A.J. (2002) Retortamonad flagellates are closely related to diplomonads: implications for the history of mitochondrial function in eukaryote evolution. *Molecular Biology and Evolution* **19:** 777-786.

19. Lobban C.S. Schefter M., **Simpson A.G.B.,** Pochon X., Pawlowski J. & Foissner W. (2002) *Maristentor dinoferus* nov. gen., nov. spec., a giant heterotrich ciliate (Protozoa, Ciliophora) with zooxanthellae, from Pacific coral reefs. *Marine Biology,* **140:** 411-423.

2001

18. **Simpson A.G.B.** & Patterson D.J. (2001) On core jakobids and excavate taxa: The ultrastructure of *Jakoba incarcerata*. *Journal of Eukaryotic Microbiology* **48:** 480-492.

17. Dacks J.B., Silberman J.D., **Simpson A.G.B.**, Moriya S., Kudo T., Ohkuma M. & Redfield R.J. (2001) Oxymonads are closely related to the excavate taxon *Trimastix*. *Molecular Biology and Evolution* **18:** 1034-1044.

16. Edgcomb V.P., Roger A.J., **Simpson A.G.B.**, Kysela D.T., & Sogin M.L. (2001) Evolutionary relationships among "jakobid" flagellates as indicated by alpha- and beta- tubulin phylogenies. *Molecular Biology and Evolution* **18:** 514-522.

15. Walker G., **Simpson A.G.B.,** Edgcomb, V.P., Sogin M.L. & Patterson D.J. (2001) Ultrastructural identities of *Mastigamoeba punctachora*, *Mastigamoeba simplex* and *Mastigella commutans* and assessment of hypotheses of relatedness of the pelobionts (Protista). *European Journal of Protistology* **37:** 25-49.

2000

14. **Simpson A.G.B.,** Bernard C. & Patterson D.J. (2000) The ultrastructure of *Trimastix marina* Kent, 1880 (Eukaryota), an excavate flagellate. *European Journal of Protistology* **36:** 229-252.
13. Buck K.R., Barry J.P. & **Simpson A.G.B.** (2000) Monterey Bay cold seep infauna: Euglenozoans with hydrogen sulphide oxidizing bacterial epibionts. *European Journal of Protistology* **36:** 117-126.
12. Bernard C., **Simpson A.G.B.** & Patterson D.J. (2000) Some free-living flagellates from anoxic sediments. *Ophelia* **52:** 113-142. [100+]

1999

11. Simpson A.G.B. & Patterson, D.J. (1999) The ultrastructure of *Carpediemonas membranifera*: (Eukaryota), with reference to the 'excavate hypothesis'. *European Journal of Protistology* **35**: 353-370. [100+]
10. Weerakoon N.D., Harper J.D.I., **Simpson A.G.B.** & Patterson D.J. (1999) Centrin in the groove: Immunolocalisation of centrin and microtubules in the putatively primitive protist, *Chilomastix cuspidata* (Retortamonadida). *Protoplasma* **210**: 75-84.
9. Patterson, D.J., **Simpson A.G.B.** & Weerakoon, N. (1999) Free-living flagellates from anoxic habitats and the assembly of the eukaryotic cell. *Biological Bulletin* **196**: 381-384.

1998

8. Edgcomb V.P., Viscogliosi E., **Simpson A.G.B.**, Delgado-Viscogliosi P., Roger A.J. & Sogin M.L. (1998) New insights into the phylogeny of trichomonads inferred from small subunit rRNA sequences. *Protist* **149**: 359-366.
7. Heep T., Rohozinski J., **Simpson A.G.B.** & Patterson D.J. (1998) *Stentor amethystinus* (Protista, Ciliophora, Heterotrichida), a common protozoan member of fresh-water plankton in Australia. *Records of the Australian Museum* **50**: 211-216.

1997

6. **Simpson A.G.B.** (1997) The identity and composition of the Euglenozoa. *Archiv für Protistenkunde* **148**: 318-328. [100+]
5. Bernard C., **Simpson A.G.B.** & Patterson D.J. (1997) An ultrastructural study of a free-living retortamonad, *Chilomastix cuspidata* (Larsen & Patterson, 1990) n. comb. (Retortamonadida, Protista). *European Journal of Protistology* **33**: 254-265.
4. **Simpson A.G.B.**, van den Hoff J., Bernard C., Burton H. & Patterson D.J. (1997) The ultrastructure and systematic position of the Euglenozoon *Postgaardi mariagerensis*, Fenchel et al. *Archiv für Protistenkunde* **147**: 213-225.
3. **Simpson A.G.B.**, Bernard C., Fenchel T. & Patterson D.J. (1997) The organisation of *Mastigamoeba schizophrenia* n. sp.: More evidence of ultrastructural idiosyncrasy and simplicity in pelobiont protists. *European Journal of Protistology* **33**: 87-98.

1996

2. Patterson D.J. & **Simpson A.G.B.** (1996) Heterotrophic flagellates from coastal marine and hypersaline sediments in Western Australia. *European Journal of Protistology* **32**: 423-448. [100+]
1. **Simpson A.G.B.** & Patterson D.J., (1996) Ultrastructure and identification of the predatory flagellate *Colpodella pugnax* Cienkowski (Apicomplexa) with a description of *Colpodella turpis* (n. sp.) and a review of the genus. *Systematic Parasitology* **33**: 187-198.

BOOK CHAPTERS / SECTIONS

C16. **Simpson, A.G.B.**, Slamovits, C. & Archibald, J.M. (2017) Protist diversity and eukaryote phylogeny. Pp 1-22 *in* Archibald, J.M., Simpson, A.G.B. & Slamovits C. (eds.) *Handbook of the Protists, 2nd edition.* Springer

C15. **Simpson, A.G.B.** (2017) Jakobida. Pp 973-1003 *in* Archibald, J.M., Simpson, A.G.B. & Slamovits C. (eds.) *Handbook of the Protists, 2nd edition.* Springer

C14. Panek, T., **Simpson, A.G.B.,** Brown, M.W. & Dexter Dyer B. (2017) Heterolobosea. Pp 1005-1046 *in* Archibald, J.M., Simpson, A.G.B. & Slamovits C. (eds.) *Handbook of the Protists, 2nd edition.* Springer

C13. Leander, B.S., Lax, G. Karnkowska, A. & **Simpson, A.G.B.,** (2017) Euglenida. Pp 1047-1088 *in* Archibald, J.M., Simpson, A.G.B. & Slamovits C. (eds.) *Handbook of the Protists, 2nd edition.* Springer

C12. Heiss, A.A., Brown, M.W. & **Simpson, A.G.B.** (2017) Apusomonadida. Pp 1619-1645 *in* Archibald, J.M., Simpson, A.G.B. & Slamovits C. (eds.) *Handbook of the Protists, 2nd edition.* Springer

C11. **Simpson, A.G.B.** & Eglit, Y. (2016) Protist diversification. Pp 344-360 *in* Kliman, R.M. (ed.) *Encyclopedia of Evolutionary Biology, Volume 3*. Elsevier.

C10. Roger, A.J., Kolisko, M. & **Simpson, A.G.B.** (2012) Phylogenomics and evolutionary analysis, Pp. 44-69 in Sibley, D., Howlett, B. & Heitman, J. (eds.) *Evolution of Virulence of Eukaryotic Microbes*. Wiley.

C9. **Simpson A.G.B.** & Čepička, I. (2009) Amitochondriate protists (Diplomonads, Parabasalids and Oxymonads). Pp. 545-557 in Encyclopedia of Microbiology, 3rd Edition. Elsevier. [Updated version for on-line edition - **Simpson A.G.B.** & Čepička, I. 2010]

C8. Hampl, V. & **Simpson, A.G.B.** (2008) Possible mitochondria-related organelles in poorly-studied 'amitochondriate' eukaryotes. Pp. 265-282 in Tachezy, J. (ed.) *Hydrogenosomes and mitosomes: mitochondria of anaerobic eukaryotes.* Springer Verlag.

C7. Adl, S.M. & **Simpson, A.G.B.** (2007) Eukaryotic Microorganisms. Chapter 23 (Pp. 687-733) in Staley J.T., Gunsalus R.P., Lory S. & Perry J.J. *Microbial Life, 2nd Edition.* Sinauer Associates.

C6. **Simpson, A.G.B.** & Patterson, D.J. (2006) Current perspectives on high-level groupings of protists. Pp. 7-30 in Katz, L. & Bhattacharya, D. (eds.) *Genomics and Evolution of Microbial Eukaryotes.* Oxford University Press.

C5. Baldauf, S.L., Bhattacharya, D., Cockrill, J., Hugenholtz, P., Pawlowski, J. & **Simpson, A.G.B.** (2004) The tree of life, an overview. Pp. 43-75 in Cracraft, J. & Donoghue, M.J. (eds.) *Assembling the Tree of Life.* Oxford University Press.

C4. **Simpson A.G.B.** & Roger A.J. (2004) Excavata and the origin of amitochondriate eukaryotes. Pp. 27-53 in Hirt, R.P. & Horner, D.S. (eds.) *Organelles, Genomes, and Eukaroyote Phylogeny: An Evolutionary Synthesis in the Age of Genomics.* CRC Press.

C3. **Simpson A.G.B.** & Patterson D.J. (2000) Colpodellidae. Pp. 370-371 in Lee, J.J. Leedale, G.F. & Bradbury P. (eds.) *The Illustrated Guide to the Protozoa, 2nd Edition*. Allen Press.

C2. Patterson D.J., Vørs N., **Simpson A.G.B.** & O'Kelly, C.F. (2000) Residual heterotrophic flagellates. Pp. 1302-1328 in Lee J.J., Leedale G.F. & Bradbury, P. (eds.) *The Illustrated Guide to the Protozoa*, *2nd Edition*. Allen Press.

C1. Patterson D.J., **Simpson A.G.B.** & Rogerson A. (2000) Amoebae of uncertain affinities. Pp. 804-827 in Lee, J.J. Leedale, G.F. & Bradbury, P. (eds.) *The Illustrated Guide to the Protozoa, 2nd Edition*. Allen Press.

NON-REFEREED ARTICLES

N8. Berney, C. and 25 others (2017) UniEuk: Time to speak a common language in protistology! *Journal of Eukaryotic Microbiology*, **64:** 407-411.

N7. Wilson, S., **Simpson, A.G.B** & Lynn, D.H. (2010) Maintaining journal figure quality. *Journal of Eukaryotic Microbiology*, **57:** 285-293 [Editorial].

N6. Lynn, D.H., & **Simpson, A.G.B** (2009) Describing new taxa of unicellular protists. *Journal of Eukaryotic Microbiology*, **56:** 403-405 [Editorial].

N5. Roger A.J. & **Simpson, A.G.B.** (2009) Evolution: Revisiting the root of the eukaryote tree. *Current Biology*, **19:** R165-167 [Commentary]. [100+]

N4. **Simpson, A.G.B.** (2005) Evolution downunder: Meeting report for the fifteenth meeting of the International Society for Evolutionary Protistology. *Protist*, **156:** 143-147.

N3. **Simpson, A.G.B.** & Roger, A.J. (2004) The real 'kingdoms' of eukaryotes. *Current Biology*, **14:** R693-696. **[Invited 'primer' (mini-review); >350 Google Scholar citations]**

N2. **Simpson, A.G.B.** & Roger, A.J. (2002) Eukaryotic evolution: Getting to the root of the problem. *Current Biology*, **12:** R691-693. [Commentary].

N1. Dacks, J.B. & **Simpson, A.G.B.** (2002) Meeting report for the fourteenth meeting of the International Society for Evolutionary Protistology. *Protist*, **153:** 337-342.

SCHOLARLY WEB PAGES

W5. **Simpson A.G.B.** & Hampl, V. (2009) *Trimastix* (within Preaxostyla) *Tree of Life web project*. http://www.tolweb.org/Trimastix/97437

W4. **Simpson A.G.B.** (2009) Malawimonads. *Tree of Life web project*. http://www.tolweb.org/Malawimonads/97416

W3. Leander, B.S. & **Simpson A.G.B.** (2008) Euglenozoa. *Tree of Life web project*. http://www.tolweb.org/Euglenozoa/2405

W2. **Simpson A.G.B.** (2008) Jakobida (including sub-pages). *Tree of Life web project*. http://www.tolweb.org/Jakobida/97407

W1. Keeling, P.J., Leander, B.S. & **Simpson A.G.B.** (2008) Eukaryotes. *Tree of Life web project*. http://www.tolweb.org/Eukaryotes/3

SUBMITTED MANUSCRIPTS

S4. Lax, G., Lee W.J., Eglit, Y. & Simpson, A.G.B. (submitted) Ploeotids represent much of the phylogenetic diversity of euglenids.

S3. Hess, S., Eme, L., Roger A.J. & Simpson, A.G.B. (submitted) A natural toroidal microswimmer propelled by a rotary eukaryotic flagellum.

S2. Frail-Gauthier, J.L., Mudie, P.J., **Simpson, A.G.B.**, & Scott, D.B. (submitted) Mesocosm and microcosm experiments on the feeding of temperate salt marsh foraminifera.

S1. **Simpson, A.G.B. / Simpson A.G.B.** et. coll. (accepted) Eukarya; Opisthokonta; Archaeplastida; Stramenopila; Alveolata; Rhizaria; Metamonada: Discoba; Discicristata; Euglenozoa. Pp. xxx-xxx in de Queiroz, K., Gauthier, J., & Cantino, P. (eds) *International Code of Phylogenetic Nomenclature, Companion Volume.* University of California Press.

INVITED TALKS AT INTERNATIONAL CONFERENCES & INVITED LECTURES

Simpson A.G.B. (2018). *Free-living protozoa and the Tree of Eukaryote Life.* Uppsala University, Sweden. [13 December 2018]

Simpson A.G.B. (2018). *What the code does (and doesn't) do for taxonomy of protists.* Workshop 'Protist Taxonomy' at 5th joint meeting of the Phycological Society of America and International Society of Protistologists. [29 July 2018]

Simpson A.G.B. (2017). *Protist phylogeny.* 15th International Congress of Protistology (ICOP XV), Prague, Czech Republic. [1 Aug 2017]

Simpson A.G.B. (2016). *The tree of (eukaryotic) life – a story told by free-living protozoa*. Invited seminar. St Francis Xavier University, Canada. [2 Nov 2016]

Simpson A.G.B. (2016). *The tree of (eukaryotic) life – a story told by free-living protozoa*. Invited seminar. Acadia University, Canada. [20 Oct 2016]

Simpson A.G.B. (2016). *The biodiversity and evolution of halophilic protozoa.* Halophiles 2016, San Juan, Puerto Rico.

Simpson A.G.B. (2016). Keynote lecture: *Protist biodiversity and evolutionary history of eukaryotes.* 35th meeting of the German Society for Protozoology, Saignelégier, Switzerland.

Simpson A.G.B. (2015). *Eukaryote Taxonomy*. 1tt EukRef Workshop. Vancouver, Canada. http://eukref.org/workshops/vancouver-workshop/.

Simpson A.G.B. (2014) Invited seminar. University of Western Ontario, Canada

Simpson A.G.B. (2013). Plenary lecture: *Eukaryote evolution; a story told by free-living protozoa*. 14th International Congress of Protistology (ICOP XIV), Vancouver, Canada.

Park, J.S. and **Simpson A.G.B.** (2013). *The diversity and evolution of 'impressively' halophilic protozoa*. Halophiles 2013, Storrs, Connecticut, USA.

Simpson A.G.B. (2013) Invited seminar. Mount Saint Vincent University, Canada

Simpson A.G.B. (2012) Invited seminar. SUNY at Buffalo, USA

Simpson A.G.B. (2011). Plenary lecture: *Eukaryote evolution; a story told by free-living protozoa*. 1st Asian Conference on Protistology, and 8th Asian conference on ciliate biology. Jeju Island, Korea.

Simpson A.G.B. (2011). *A perspective on small free-living protozoa*. Consortium for the Barcode of Life, Protist Working Group Meeting. Berlin, Germany

Simpson A.G.B. (2011). Invited seminar (Killam Prize lecture). Dalhousie University, Canada (Dept. Biology)

Simpson A.G.B. and J.S. Park (2010) *Flagellates from extraordinary environments.* Joint meeting of the International Society of Protistologists and the British Society of Protist Biology**.**

Simpson A.G.B. (2010) Invited seminar. Charles University, Czech Republic

Simpson A.G.B. (2009) *What do Carpediemonas and like organisms tell us about the evolution of parasitic diplomonads*? 12th International Congress of Protistology. Buzios, Brazil.

Simpson A.G.B. (2008) Invited seminar Acadia University, Canada

Simpson A.G.B. (2008) *Introduction to Excavata; Jakobids.* Tree of Life Web Project Protist Diversity Workshop. Halifax, Nova Scotia.

Simpson A.G.B. (2004) Invited seminar. Dalhousie University, Canada (Dept. Biochemistry and Molecular Biology)

Simpson A.G.B. (2004) Invited seminar. University of New Brunswick, Canada

Simpson A.G.B. (2002) Job seminar. University of British Columbia, Canada (Job seminar)

Simpson A.G.B. (2002) Job seminar. Dalhousie University, Canada (Job seminar)

Simpson A.G.B. (1998)Invited seminar. Monterey Bay Aquarium Research Institute, California, USA.

OTHER TALKS AT INTERNATIONAL CONFERENCES (PRESENTED BY AGBS)

Simpson, A.G.B. & Harding, T. (2018) *Biodiversity and evolution of halophilic protozoa*. International Society for Evolutionary Protistology XXII, Droushia, Cyprus. [29 May 2018]

Lee, W. & **Simpson, A.G.B.** (2014) *Euglenid evolutionary history inference in light of new-cultured phagotrophs* Protist2014 – a joint meeting of the International Society for Evolutionary Protistology and the International Society of Protistologists, Banff, Canada.

Heiss A.A., Walker, G. & **Simpson, A.G.B.** (2012) *The cytoskeleton of Breviata (and Thecamonas) and the nature of the ancestral eukaryote flagellar apparatus.* Protist2012 – joint meeting of International Society for Evolutionary Protistology & International Society of Protistologists, Oslo, Norway.

Park, J.S., Grimm, K., Zhang, Q., Harding, T., Brown, M.W. & **Simpson, A.G.B.** (2011) *The deeper-level phylogeny and evolution of Heterolobosea: a major group of protists*. Joint meeting of the Phycological Society of America and the International Society of Protistologists, Seattle, WA

Park, J.S., Cho, B.C. & **Simpson A.G.B.** (2011) *The diversity and evolution of extremely halophilic protozoa*. 6th European Congress of Protistology, Berlin, Germany.

Simpson A.G.B. (2010) *On the diversity of halophilic protozoa*. 18th meeting of the International Society of Evolutionary Protistology, Kanazawa, Japan.

Simpson A.G.B. (2006) *Andalucia: a difficult-to-place excavate with jakobid morphology*. 16th meeting of the International Society of Evolutionary Protistology, Wroclaw, Poland.

Simpson A.G.B. (2005) *Taxon-rich multi-protein perspectives on excavate phylogeny*. 15th meeting of the International Society of Evolutionary Protistology, Melbourne, Australia.

Simpson A.G.B. (2004) *Highest-level taxa within eukaryotes*. First International Phylogenetic Nomenclature Meeting. Paris, France.

Simpson A.G.B., et al. (2004) *The evolutionary relationships amongst excavates: A concatenated protein analysis*. Society of Protozoologists 2004 Meeting, Smithfield, USA.

Simpson, A.G.B. (2003) *The origin and evolution of kinetoplastids (Euglenozoa) inferred from protein phylogenies*. American Society for Parasitology 78th Annual Meeting, Halifax, Canada.

Simpson A.G.B. (2003) *Excavata: evolutionary relationships amongst supposedly early diverging eukaryotes*. Society of Protozoologists 2003 Meeting, Gleneden, USA.

Simpson A.G.B. (2002) *Excavata: composition and phylogeny of a major new grouping within eukaryotes*. Evolution 2002, Urbana-Champaign, USA.

Simpson A.G.B. (2002) *Kinetoplastid phylogeny updated*. 14th meeting of the International Society of Evolutionary Protistology, Vancouver, Canada.

Simpson A.G.B. (2002) *A molecular and morphological examination of kinetoplastid phylogeny*. Society of Protozoologists 2002 Meeting, Salt Lake City, USA

Simpson A.G.B. (2001) *The phylogeny of Excavata and amitochondriate evolution*. 11th International Congress of Protozoology, Salzburg, Austria.

Simpson A.G.B. (2000) *The excavate taxa: finding a phylogenetic home for primitive protists*. 13th meeting of the International Society for Evolutionary Protistology, Ceské Budejovice, Czech R.

Simpson A.G.B. (1998) *Diversity and evolutionary significance of the excavate taxa*. 12th meeting of the International Society of Evolutionary Protistology, Flagstaff, USA.

Simpson A.G.B. (1998) *Diversity and evolutionary significance of the excavate taxa*. The Flagellates Symposium, Birmingham, UK.

Simpson A.G.B. (1997) *Ultrastructure of two 'new' free-living retortamonad-like flagellates*. 10th International Congress of Protozoology, Sydney, Australia.

Simpson A.G.B., Patterson D.J. & Vørs N. (1996) *An ultrastructural comparison of three unfamiliar Euglenozoa and the implications for understanding euglenozoan phylogeny*. 11th meeting of the International Society for Evolutionary Protistology, Köln, Germany.

***Plus,* 2005-2014:** 1 invited plenary lecture at a regional conference (Atlantic Parasitology Society; 2013); 5 talks at Canadian Institute for Advanced Research (CIfAR) Program meetings/workshops

RESEARCH SUPPORT

Competitive grants (as P.I.)

2014-2019	NSERC Individual Discovery Grant ($27,000 p.a.)	$135,000
2009-2014	NSERC Individual Discovery Grant ($34,000 p. a.)	$170,000
2004-2009	NSERC Individual Discovery Grant ($32,700 p. a.)	$163,500
2003-2006	CFI New Opportunities infrastructure grant (w/ S. Adl)	$489,669

Other research support (as P.I.)

2012-2017:	CIfAR Fellow, program in Integrated Microbial Biodiversity (IMB) Research allowance: ($24,000 p. a.)	$120,000
2007-2012:	CIfAR Scholar/Fellow, IMB program Research allowance ($23,000 p. a. av.)	$115,000
2008-12, 2014-6:	CGEB stipend support & research allowance ($64,000 p. a.)	$320,000

Co-applicant on competitive grants

2016	NSERC Research Tools Grant (P.I. Sophia Stone)	$58,576
2015-2020	CIHR Research Grant (P.I. Andrew Roger) ($144,993 p.a.)	$724,966
2008-2013	CIHR Research Grant (P.I. Andrew Roger) ($143,876 p.a.)	$719,380
2013	NSERC Research Tools Grant (P.I. Claudio Slamovits)	$147,500
2012	NSERC Research Tools Grant (P.I. Ian Meinertzhagen)	$75,140
2008	NSERC Research Tools Grant (P.I. Ian Meinertzhagen)	$150,000
2008	NSERC Research Tools Grant (P.I. Andrew Roger)	$55,591

PROFESSIONAL RESPONSIBILITIES

Offices in professional societies

2014-**present**	**Chair, systematics committee**, International Society of Protistologists
2012-**present**	**Office Manager,** International Society for Evolutionary Protistology (ISEP)
2009-**present**	**Awards committee member,** International Society of Protistologists
2016-2017	**Vice President,** International Society of Protistologists (ISoP)
2010-2015	**Program Chair,** International Society of Protistologists
2009-2014	**Executive committee member-at-large,** International Society of Protistologists
2004-2014	**Systematics committee member**, International Society of Protistologists
2008-2010	**North American councilor,** International Society for Evolutionary Protistology
2004, 2008	**Nominating committee member,** International Society of Protistologists
2000-2006	**Secretary,** International Society for Evolutionary Protistology

Organisation of international scientific meetings

2015	**Scientific Committee** VII ECOP (7th meeting of the European Congress of Protistology, and International Society of Protistologists), Sevilla, Spain.
2013	**Co-Program chair** 14th International Congress of Protistology. Vancouver, Canada.
2008	**Co-Organiser,** Protist2008 – Combined meeting of the International Society for Evolutionary Protistology & the International Society of Protistologists. Halifax, Nova Scotia, Canada.
2008	**Scientific co-organiser,** Tree of Life Web Project Protist Diversity Workshop. Halifax, Nova Scotia, Canada
2007	**Scientific Committee,** Annual meeting of the Society for Molecular Biology and Evolution (SMBE). Halifax, Nova Scotia, Canada.

Editorship and other professional service

2015-**present**	**Steering Committee** member, UniEuk Initiative
2014-**present**	**Monitoring Editor,** "Protist"
2013-2017	**Editor** (with J.M. Archibald & C. Slamovits) Handbook of the Protists, 2nd edn.
2004-2016	**Associate Editor,** "Journal of Eukaryotic Microbiology"
2008-2012	**Illustration Editor,** "Journal of Eukaryotic Microbiology"
2002-2013	**Advisory Board** (i.e. occasional editor) of the journal "Protistology"

Manuscript peer-review (since 2003)

Acta Protozoologica, Advances in Ecology, Applied & Environmental Microbiology, Biological Journal of the Linnean Society, Biology Letters, Bioscience, BMC Evolutionary Biology, BMC Genomics, **Current Biology**, Current Opinion in Microbiology, Deep Sea Research II, Environmental Microbiology, Environmental Microbiology Reports, European Journal of Protistology, Genome Biology & Evolution, International Journal of Systematic & Evolutionary Microbiology, ISME Journal, Journal of Eukaryotic Microbiology, Journal of Molecular Evolution, Journal of Phycology, Journal of Plankton Research, Molecular Biology & Evolution, Molecular Ecology, Molecular Phylogenetics & Evolution, **Nature**, Nature Reviews Microbiology, Nucleic Acids Research, **PNAS**, Proceedings of the Royal Society series B, PLoS ONE, Protist, Protistology, **Science**, Systematic Biology, Trends in Microbiology.

Other peer-review

Textbook chapters: 5; Other book sections: 2: Book proposals: 2

Grant application peer review

NSERC (Canada); Czech Academy of Sciences; Leverhulme Trust (UK); NASA Exobiology Program (Peer review panel member); National Science Foundation (NSF)

TEACHING / SUPERVISION / STUDENT EVALUATION

Teaching

2004, 2007-**present**	BIOL1010 Principles of Biology I (33%)	Enrollment >850
2004-6, 2010-5, 2017-**pres.**	BIOL3102 Microbial Eukaryotes (100%)	Enrollment ~30 av.
2011-6, 2018-**present**	BIOL2004 Diversity of Life II (50%)	Enrollment ~225 av.
2009	BIOL2004 Microbial Diversity (100%)	Enrollment: 225
2006-2008	BIOL2004 Microbial Diversity (50%)	Enrollment ~180 av.

Student / Researcher Supervision

Postdoctoral Fellows:	5 Sebastian Hess (co-supervised) Dayana Salas (co-supervised) Aaron Heiss Jong Soo Park Vladimir Hampl (co-supervised)
Ph.D Students:	5 **(2 current*)** **Yana Eglit*** **Gordon Lax*** Tommy Harding (co-supervised) Aaron Heiss Martin Kolisko
MSc Students	2 Robyn Buchwald Jiwon Yang (co-supervised)
Visiting Student, Graduate Studies (Research):	2 Anna Busch (supervisor of record) Qianqian Zhang
Undergraduate Research Students:	15 (1 current)
Visiting PhD Students (<3 months):	3
Visiting Postdoctoral researchers:	2

Graduate thesis examination committees

2017	Shannon Sibbald, Dalhousie University (MSc)
2017	Afrah Alothman, Dalhousie University (MSc)
2017	Jenni Ratten, Dalhousie University (PhD)
2016	**Tommy Harding, Dalhousie University (PhD) - Co-supervisor**
2016	**Robyn Buchwald, Dalhousie University (MSc) – Primary Supervisor**
2016	**Jiwon Yang, Dalhousie University (MSc) - Co-supervisor**
2016	Susan Sharpe, Dalhousie University (MSc)
2015	Kate Wetherby, University of Sydney (PhD)
2014	Sebastian Hess, University of Cologne (PhD).
2014	Yuan Lin, St Francis Xavier University (MSc)
2012	**Aaron Heiss, Dalhousie University (PhD) - Supervisor**
2011	**Martin Kolisko, Dalhousie University (PhD) – Primary Supervisor**
2010	David Smith, Dalhousie University (PhD)
2009	Adrian Sharma, Dalhousie University (PhD)
2009	Natalie Donaher, Dalhousie University (MSc)
2008	Tia Silver, Dalhousie University (MSc)
2008	Martin Kostka, Charles University, Prague (PhD)
2007	Lisa MacDonald, Dalhousie University (MSc)
2007	Laura Hug, Dalhousie University (MSc)
2007	David Walsh, Dalhousie University (PhD)
2005	Paul O'Connell, Dalhousie University (MSc)
2004	Gisela Martinez, Dalhousie University (MSc)
2003	Yan Boucher, Dalhousie University (PhD)

DEPARTMENT/FACULTY/UNIVERSITY RESPONSIBILITIES

2018	Faculty of Science Undergraduate Research Committee
2012-2017	Writing Across the Curriculum Committee (University).
2007-**present**	Faculty of Science Nominating Committee
2008-10, 2012-**present**	Department of Biology Graduate Admissions Committee (Chair in 2018)
2014-2017	Faculty of Science Tenure and Promotion Committee
2012	History of Science and Technology (HOST) program joint council
2008	Faculty of Science *ad hoc* Innovation Committee
2005-2007	Department of Biology Seminar Committee (Chair)