

Claudio H. Slamovits

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Dalhousie University

Present position Associate Professor
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Education
2002: PhD (Biology) Universidad de Buenos Aires (Argentina)
1997: Licentiate (BSc) in Biology, Universidad de Buenos Aires

Research experience
2002 – 2007: Postdoctoral Research Fellow, Department of Botany, University of British Columbia.
2007-2009: Research Associate, Department of Botany, University of British Columbia.

Publications

Articles submitted for peer-review

Muñoz-Gómez SA, Durnin, K., Eme, L., Paight, C., Lane, CE., Saffo, MB. and **Slamovits, CH**. Nephromyces represents a novel lineage within the Sporozoa that has retained apicoplasts. Under revision in Genome Biology and Evolution.

Peer-reviewed articles, published and accepted – Trainees' names underlined

1. Muñoz-Gómez SA, Hess S, Burger G, Lang BF, Susko E, **Slamovits CH**, Roger AJ. An updated phylogeny of the Alphaproteobacteria reveals that the parasitic Rickettsiales and Holosporales have independent origins. *Elife*. 2019 Feb 25;8. pii: e42535. doi: 10.7554/eLife.42535.
2. Paight, C., **Slamovits, CH.**, Saffo, MB. and Lane, C. Nephromyces encodes a urate metabolism pathway and predicted peroxisomes, demonstrating these are not ancient losses of apicomplexans. **2018**, *Genome Biology and Evolution*, in press
3. Sophie de Vries, de Vries, J., von Dahlen, J.K., Gould, S.V., Archibald, J.M., Rose, L. and **Slamovits, C.H.** **2018**. On the early evolution of regulatory networks in plant defense signaling. *Communicative and Integrative Biology*. 11(3): 1–14.
4. Muñoz-Gómez, S. A., Mejía-Franco, F. G., Durnin, K., Colp, M., Grisdale, C. J., Archibald, J. M., **Slamovits, C. H.** **2017**. A new subphylum within the red algae is defined by massively expanded and divergent plastid genomes. *Current Biology*. 27(11):1677-1684

5. de Vries, J., de Vries, S., **Slamovits, C.H.**, Rose, L., and Archibald, J.M. **2017**. How Embryophytic is the Biosynthesis of Phenylpropanoids and their Derivatives in Streptophyte Algae? *Plant and Cell Physiology*. In press. (Issue cover article)
6. Muñoz-Gómez, S.A., Wideman, J.G., Roger, A.J. and **Slamovits, C.H.** **2017**. The origin of mitochondrial cristae from alphaproteobacteria. *Molecular Biology and Evolution*, msw298. doi: 10.1093/molbev/msw298
7. Alarcón, M.E., Jara-F, A., Briones, R.C., Dubey, A.K. and **C. H. Slamovits. 2017**. Gregarine infection accelerates larval development of the cat flea *Ctenocephalides felis* (Bouché). *Parasitology*. pp. 1–7. doi: 10.1017/S0031182016002122
8. Muñoz-Gómez, S.A., **Slamovits, C.H.**, Dacks, J.B., and Wideman, J.G. **2016**. The evolution of MICOS: ancestral and derived functions and interactions. *Communicative and Integrative Biology*, 8(6)-5pp.
9. Sierra, R., Cañas-Duarte, S.J., Burki, F., Schwelm, A., Fogelqvist, J., Dixelius, C., González-García, L.N., Gile, G.H., **Slamovits, C.H.**, Klopp, C., Restrepo, S., Arzul, I. and Pawlowski, J. **2016**. Evolutionary origins of rhizarian parasites. *Molecular Biology and Evolution*, doi: 10.1093/molbev/msv340
10. Gile, G.H., Moog, D., **Slamovits, C.H.**, Maier, U.G. and Archibald, J.M. **2015**. Dual organellar targeting of aminoacyl-tRNA synthetases in diatoms and cryptophytes. *Genome Biology and Evolution*, doi: 10.1093/gbe/evv095
11. Muñoz-Gómez, S.A., **Slamovits, C.H.**, Dacks, J.B., Baier, K.A., Spencer, K.D. and Wideman, J.G. **2015**. Ancient homology of the mitochondrial contact site and cristae organizing system points to an endosymbiotic origin of mitochondrial cristae. *Current Biology* 25, 1–7.
12. Keeling, P.J. *et al.* (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(6):e1001889.
13. Gile, G. and **Slamovits, C.H.** **2014**. Transcriptomic Analysis Reveals Evidence for a Cryptic Plastid in the Colpodellid *Voromonas pontica*, a Close Relative of Chromerids and Apicomplexan Parasites. *PLOS One*. Doi 10.1371/journal.pone.0096258
14. Lee, R., Lai, H., Malik, S.B., Saldarriaga, J.F., Keeling, P.K. and **Slamovits, C.H.** **2014**. Analysis of EST data of the marine protist *Oxyrrhis marina*, an emerging model for alveolates biology and evolution. *BMC Genomics* 15,122.
15. Maselli, GA, **Slamovits CH**, Bianchi JJ, Vilarrasa-Blasi J, Caño-Delgado AI and Mora-García S. **2014**. Revisiting the evolutionary history and roles of protein phosphatases with Kelch-like domains in plants. *Plant Physiology*, 164(3):1527-41.
16. Curtis BA, Tanifuji G, Burki F, Gruber A, Irimia M, Maruyama S, Arias MC, Ball SG, Gile GH, Hirakawa Y, Hopkins JF, Kuo A, Rensing SA, Schmutz J, Symeonidi A, Elias M, Eveleigh RJ, Herman EK, Klute MJ, Nakayama T, Oborník M, Reyes-Prieto A, Armbrust EV, Aves SJ, Beiko RG, Coutinho P, Dacks JB, Durnford DG, Fast NM, Green BR, Grisdale CJ, Hempel F, Henrissat

- B, Höppner MP, Ishida K, Kim E, Kořený L, Kroth PG, Liu Y, **Malik SB**, Maier UG, McRose D, Mock T, Neilson JA, Onodera NT, Poole AM, Pritham EJ, Richards TA, Rocap G, Roy SW, Sarai C, Schaack S, Shirato S, **Slamovits CH**, Spencer DF, Suzuki S, Worden AZ, Zauner S, Barry K, Bell C, Bharti AK, Crow JA, Grimwood J, Kramer R, Lindquist E, Lucas S, Salamov A, McFadden GI, Lane CE, Keeling PJ, Gray MW, Grigoriev IV, Archibald JM. Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. **2012**. *Nature*. Dec 6;492(7427):59-65.
17. **Gile, G.H.** and **Slamovits, C.H.** **2012**. Phylogenetic position of *Lophomonas striata* Bütschli (Parabasalia) from the hindgut of the cockroach *Periplaneta Americana*. *Protist*, 163(2):274-283.
 18. Halary, S., **Malik, S.B.**, Lildhar, L., **Slamovits, C.H.**, Hijri, M., and Corradi, N. **2011**. Conserved meiotic machinery in *Glomus* spp., a putatively ancient asexual fungal lineage, *Genome Biology and Evolution* 3:950-958.
 19. **Slamovits, C.H.**, Okamoto, N., Burri, L. James, E. and Keeling, P.J. **2011**. A bacterial proteorhodopsin proton pump in marine eukaryotes. *Nature Communications* 2:183.
 20. Corradi, N. and **Slamovits, C.H.**, (2011) The intriguing nature of microsporidian genomes. *Briefings in Functional Genomics* 10(3):115-24.
 21. Lowe, C.D., Keeling, P.J., Martin, L.E., **Slamovits, C.H.**, Watts, P.C. and Montagnes, D.J.S., (2011) Who is *Oxyrrhis marina*? Morphological and phylogenetic studies on an unusual dinoflagellate. *Journal of Plankton Research* 33(4): 555-567.
 22. **Slamovits, C.H.** and Keeling, P.J., (2011) Contributions of *Oxyrrhis marina* to molecular biology, genomics and organelle evolution of dinoflagellates *Journal of Plankton Research* 33(4): 591-602.
 23. Saffo, M.B., McCoy, A.M., Rieken, C. and **Slamovits, C.H.**, (2010) *Nephromyces*, a beneficial apicomplexan symbiont in marine animals *Proc. Natl. Acad. Sci. USA* 107 (37):16190-16195
 24. **Slamovits, C.H.** and Keeling, P.J. 2009. Evolution of ultrasmall spliceosomal introns in highly reduced nuclear genomes. *Mol. Biol. Evol.* 26 (8):1699-1705
 25. McEwan, M., Humayun, R., **Slamovits, C.H.** and Keeling, P.J. 2008. Nuclear Genome Sequence Survey of the Dinoflagellate *Heterocapsa triquetra*. *J. Eukaryotic Microbiology.* 55(6):530-535
 26. **Slamovits, C.H.** and Keeling, P.J. 2008. Widespread recycling of processed cDNAs in dinoflagellate genomes. *Current Biology*, 18(3):R550-R552
 27. **Slamovits, C.H.** and Keeling, P.J. 2008. Plastid-derived genes in the non-photosynthetic alveolate *Oxyrrhis marina*. *Molecular Biology and Evolution.* 25(7):1297-1306
 28. **Slamovits, C.H.**, Saldarriaga, J.F., Larocque, A. and Keeling, P.J. 2007. The Highly Reduced and Fragmented Mitochondrial Genome of the Early-branching Dinoflagellate *Oxyrrhis marina* Shares Characteristics with both Apicomplexan and Dinoflagellate Mitochondrial Genomes. *J. Mol. Biol.* 372:356-368
 29. Ellingsen, A., **Slamovits, C. H.** and Rossi, M. S. 2007. Sequence evolution of the major satellite DNA in the genus *Ctenomys* (Rodentia, Octodontidae). *Gene.* 392(1-2):283-290

30. Breglia, S. A., **Slamovits, C. H.** and Leander, B. S. 2007. Phylogeny of phagotrophic euglenids (Euglenozoa) as inferred from hsp90 gene sequences. *J. Eukaryot. Microbiol.* 54(1):86-92
31. Gilson, P., Su, V., **Slamovits, C. H.**, Reith, M., Keeling, P.J., McFadden, G.I. 2006. Complete nucleotide sequence of the chlorarachniophyte nucleomorph: Nature's smallest nucleus. *Proc. Natl. Acad. Sci. USA.* 103:9566-9571. **PNAS selected this article for a highlight in the "In This Issue" section**
32. Waller, R.F., **Slamovits, C.H.** and Keeling, P.J. 2006. Lateral gene transfer of a multi-gene region from cyanobacteria to dinoflagellates resulting in a novel plastid-targeted fusion protein. *Mol. Biol. Evol.* 23:1437-1443
33. **Slamovits, C.H.** and Keeling, P.J. 2006. A high density of ancient spliceosomal introns in oxymonad excavates. *BMC Evol. Biol.* 6(1):34. ***Article evaluated by Facultyof1000.com**
34. **Slamovits, C. H.** and Keeling, P.J. 2006. Pyruvate-phosphate dikinase in the protist *Streblomastix strix* and the evolution of pyrophosphate-dependent glycolysis in anaerobic eukaryotes. *Eukaryotic Cell* 5(1): 148-154.
35. Keeling, P. J. and **Slamovits, C. H.** 2005. Causes and effects of nuclear genome reduction. *Curr. Opin. Genet. Dev.*15(6):601-608.
36. Williams, B. A. P., **Slamovits, C. H.**, Patron, N. J., Fast, N. M., and Keeling, P. J. 2005. A high frequency of overlapping gene expression in compacted eukaryotic genomes. *Proc. Natl. Acad. Sci. USA* 102, 10936-10941 ***Article evaluated by Facultyof1000.com**
37. Keeling, P. J., Williams, B. A. P., Law, J., Fast, N. M., and **Slamovits, C. H.** 2005. Comparative genomics of microsporidia. *Folia Parasitol.* 52, 8-14.
38. Keeling, P. J. and **Slamovits, C. H.** 2004. Simplicity and complexity of microsporidian genomes. *Eukaryotic Cell* 3, 1363-1369.
39. **Slamovits, C. H.** and Keeling, P. J. 2004. Class II photolyase in a microsporidian intracellular parasite. *J. Mol. Biol.* 341, 713-721.
40. **Slamovits, C. H.**, Fast, N. M., Law, J. S. and Keeling, P. J. 2004. Genome compaction and stability in microsporidian intracellular parasites. *Curr. Biol.* 14, 891-896. ***Dispatch on this article published: Curr. Biol.** 22;14(12):R473-4.
41. **Slamovits, C. H.**, Williams, B. A. P., and Keeling, P. J. 2004. Transfer of *Nosema locustae* (Microsporidia) to *Antonospora locustae* n. com. based on molecular and ultrastructural data. *J. Eukaryot. Microbiol.* 51, 207-213.
42. **Slamovits, C. H.** and Rossi, M. S. 2002. Satellite DNA: Agent of chromosomal evolution in mammals. A review. *J. Neotrop. Mammal.* 9(2):297-308.
43. **Slamovits, C. H.**, Cook, J. A., Lessa, E. P., and Rossi, M.S. 2001. Recurrent amplifications and deletions of satellite DNA accompanied chromosomal diversification in South American tuco-tucos (genus *Ctenomys*, Rodentia: Octodontidae): a phylogenetic approach. *Mol. Biol. Evol.* 18(9):1708-19.

Book chapters, published.

1. Muñoz-Gómez, SA., and **Slamovits, CH.** 2018. Plastid Genomes in Myxozoa. *In* Shaw, S-M, and Jansen, RK., eds. *Advances in Botanical Research* vol. 85: "Plastid Genome Evolution", Elsevier.

2. **Slamovits CH.** 2013. Extreme Genome Reduction in Microbial Parasites. *In book: Comparative Genomics in Neglected Human Parasites.* Editors: Mario César López-Camarillo, Laurence A. Marchat. Nova Publishers.
3. **Slamovits CH.** and Reyes-Prieto A. Lateral gene transfer and the evolution of photosynthesis in eukaryotes. 2013. *In Lateral Gene Transfer in Evolution.* Uri Gophna, Editor. Springer Science, NY.
4. **Slamovits CH.** 2013. Mitochondrial Genomes in Alveolates. In: Bell E., Bond J., Klinman J., Masters B., Wells R. (Ed.) *Molecular Life Sciences: An Encyclopedic Reference: SpringerReference* (www.springerreference.com). Springer-Verlag Berlin Heidelberg.

Grants and Scholarships

Research grants and awards

- 2017-2019: Gordon and Betty Moore Foundation – Experimental Model Systems. USD 150,000.
- 2015-2016: Gordon and Betty Moore Foundation – Experimental Model Systems. **USD 157,163.** Co-applicant Dr. José Fernández-Robledo from the Bigelow Laboratory for Ocean Sciences. Assigned to me: USD 69,750.
- 2014-2016: DFO-ACRDP – Group grant to develop an oyster breeding program resistant to the oyster parasite *Haplosporidium nelsoni*. Total amount **\$404,548** (assigned \$36,000)
- 2015-2010: NSERC Discovery Grant. **\$150,000** for 5 years, operating grant.
- 2014: NSERC Engage. Improving algal biomass production through genomics. Research in partnership with SabrTech Inc. **\$25,000 (one year)**
- 2013: NSERC Engage. Developing diagnostic molecular tools for MSX parasitic disease affecting the oyster industry in Nova Scotia. Research grant in partnership with Nova Scotia Aquaculture Association, **\$25,000 (one year)**
- 2013: NSERC - EQPEQ – Research Tools and Instruments - Category 1: **\$147,455** (PI – C. Slamovits, with co-investigators: A.J. Roger, J.M. Archibald, A Simpson). Purpose: Purchase a MiSeq DNA sequencing machine,
- 2012-2013: Nova Scotia Health Research Foundation. Development/Innovative Research Grant. **\$15,000 (one year)**
- 2012-2017: CFI-NSRIT Leaders Operating Fund. **\$5,000 per year** for infrastructure maintenance
- 2011-2015: CGEB – Tula Foundation. CGEB members support, **\$64,000 per year.**
- 2010-2015: NSERC *Discovery grant.* **\$27,000 per year** Operating grant
- 2009: Canada Foundation for Innovation and Nova Scotia Research and Innovation Trust. *Leaders Opportunity Fund.* **\$315,000** for infrastructure
- 2012-2017: Canadian Institute for Advanced Research. Program members research support: **\$24,000 per year.**

- 2009-2011: Canadian Institute for Advanced Research. Program members research support: **\$25,000 per year**.
- 2009: Dalhousie Medical Research Foundation. **\$13,500** for equipment

Fellowships and scholarships

- 2009-2017: Fellow, Program in Integrated Microbial Biodiversity, Canadian Institute for Advanced Research (CIFAR).
- 2007-2009: Research fellow, Centre for Microbial Diversity and Evolution – Tula Foundation.
- 2001: Sigma-Xi Grant-in-Aid of Research. Research grant awarded to Graduate students on a competitive basis.
- 1997 – 2002: CONICET (Argentina’s National Research Council) Graduate student fellowship.
- 1994 – 1997: Roche Argentina (branch of Roche Pharmaceuticals). Work-study scholarship for outstanding undergraduate students of Medicine and Biology.

Invited talks and seminars

1. “Molecular and evolutionary aspects of dinoflagellate protists”. Acadia University, Department of Biology Seminar Series, Wolfville, NS, Canada. November 2016.
2. “Nephromyces, an apicomplexan with a unique symbiotic lifestyle”. iGRAD-Plant Program seminar series, Institute for Population Genomics, Heinrich-Heine University, Düsseldorf, Germany. November 2015.
3. “Genomic insights into an enigmatic symbiotic system” Department of Biology Seminar Series, University of New Brunswick, Fredericton, Canada. January 2015.
4. “Insights into the molecular genetics of dinoflagellates”, Claudio H. Slamovits, Bigelow Laboratory for Ocean Sciences, East Boothbay, Maine, USA. May 29th.
5. “Sequencing the MSX genome”, Claudio H. Slamovits. Aquatic invasive species and disease workshop – Aquaculture Association of Nova Scotia. January 29th 2014. Delta Halifax Hotel, Halifax, NS.
6. ”From predators to companions: genomic explorations on the origin and the limits of parasitism in apicomplexa”. Claudio H. Slamovits. Wellcome Trust – Sanger Institute meeting “The evolution of parasite genomes and origins of parasitism”, April 2013, Hinxton, UK.
7. “Exploring the massive genomes of dinoflagellate protists”, Dalhousie University Department of Biology, Seminar Series. October 18th 2011.
8. “Eukaryotic genomes: diversity, function and architecture” December 2009, Institute of Biochemical Investigations “Dr. Luis F. Leloir” Buenos Aires, Argentina.

Meeting presentations (oral and posters, presenter’s name is underlined)

2016

1. *Oral*. Slamovits, C.H. Genomic analysis of *Nephromyces* sheds light into an enigmatic symbiotic system between a tunicate and a divergent apicomplexan. PROTIST2016 Conference, Moscow, Russian Federation.
2. *Poster*. Fernández-Robledo, J.A., Breglia, S.A. and Slamovits, C.H. 2016 (January). Developing a transformation system for the dinoflagellate *Oxyrrhis marina*. EMBO/EMBL Symposium: A new age of discovery for aquatic microeukaryotes. Heidelberg, Germany.
3. *Poster*. Fernández-Robledo, J.A., and Slamovits, C.H. 2016 (January). Transfection strategies for marine protozoa. EMBO/EMBL Symposium: A new age of discovery for aquatic microeukaryotes. Heidelberg, Germany.

2015

1. *Poster*. Muñoz-Gómez, S.A., Kennedy, K.J., Saffo, M.B., Lane, C.E., Paight, C., Slamovits, C.H. 2015 (September). “The multiple infection hypothesis for *Nephromyces* symbiosis and an updated apicomplexan phylogeny”. VII European Congress of Protistology and International Congress of Protistology (ECOP/ICOP). Sevilla, Spain.
2. *Oral*. Muñoz-Gómez, S.A., Wideman, J.G., Leger, M.M., Roger, A.J., Slamovits, C.H. 2015 (September). “The evolutionary history of MICOS reveals the pre-endosymbiotic origin of mitochondrial cristae”. VII European Congress of Protistology and International Congress of Protistology (ECOP/ICOP). Sevilla, Spain.
3. *Poster*. Breglia, S.A., Lee, R. and Slamovits, C.H. 2015 (September) Studies on nuclear and genomic biology of the dinoflagellate *Oxyrrhis marina*. VII European Congress of Protistology (ECOP). Sevilla, Spain.
4. *Poster*. Muñoz-Gómez, S.A., Kennedy, K.J., Saffo, M.B., Lane, C.E., Paight, C., Slamovits, C.H. 2015 (September). “The multiple infection hypothesis for *Nephromyces* symbiosis and an updated apicomplexan phylogeny”. Black Forest Summer School 2015: To see the (Black) Forest for the trees: NGS data for phylogenetics. Herzogenhorn, Germany.
5. *Oral*. Muñoz-Gómez, S.A., Wideman, J.G., Leger, M.M., Roger, A.J., Slamovits, C.H. 2015 (September). “The evolutionary history of MICOS reveals the pre-endosymbiotic origin of mitochondrial cristae”. XVII International Society of Endocytobiology - German Section (ISE-G). VII European Congress of Protistology (ECOP). Sevilla, Spain. Berlin, Germany.

2014

1. *Oral*. “*Nephromyces*, a mutualistic endosymbiont representing a new major branch of the apicomplexan tree”. Sergio A. Muñoz-Gómez, Mary B. Saffo, Chris E. Lane, Chris Paight, Claudio H. Slamovits. International Society of Protistologists Annual Meeting. Banff, Alberta, 3-8 August 2014.
2. *Oral*. “*Nephromyces* and the evolution of apicoplast genomes among apicomplexans” Sergio A. Muñoz-Gómez and Claudio H. Slamovits. Canadian Institute for Advanced Research Program in Integrated Microbial Biodiversity,

Annual Meeting. Prague, Czech Republic, June 26-29.

3. *Poster*. “*Nephromyces* and the evolution of apicoplast genomes among apicomplexans” Sergio A. Muñoz-Gómez, Mary B. Saffo, Chris E. Lane, Chris Paight, Claudio H. Slamovits. ESF-EMBO Biology of plastids - Towards a Blueprint for Synthetic Organelles, 21-26 June 2014, Pułtusk, Poland

2013

1. *Poster*. Combined proteomic and genomic approaches to study dinoflagellate nuclear biology. Breglia, S., Lee, R., Slamovits, C.H. International Congress of Protistology, July 28th – August 2nd, Vancouver, BC.

2012

1. *Poster*. “Evolution of the Kelch domain-containing family of protein phosphatases from plants and alveolate protists”. Slamovits C.H. and Mora-García, S. Society for Molecular Biology and Evolution Meeting. Dublin, Ireland. June 2012.
2. *Poster*. “High rates of retrogene formation in the giant nuclear genomes of Dinoflagellates”. Lee, R. and Slamovits, C.H. Society for Molecular Biology and Evolution Meeting. Dublin, Ireland. June 2012.
3. *Poster*. “Symbiosis between a euglenid and verrucomicrobial bacteria with extrusive structures. Extrusomes in the making?” Breglia, S., Yubuki, N., Leander, B. and Slamovits, C.H. International Society of Protozoologists. Oslo, Norway. August 2012.
4. *Poster*. “A Rieske monooxygenase highly conserved in animals is the sterol-C7 desaturase of *Tetrahymena thermophila*”. Najle S.; Nusblat, A.; Slamovits, C.H.; Nudel C; Uttaro A. Protist 2012 Conference -ISOP 62, ISEP XIX. Oslo, Norway.

2011

1. *Oral*. “Analysis of expressed sequence tags of the marine dinoflagellate *Oxyrrhis marina*, an emerging model for alveolate biology and evolution”, Slamovits, C.H. Maritimes Protistologists Meeting. Dalhousie University, Halifax, NS, November 2011.
2. *Oral*. “Phylogenetic position of *Lophomonas striata* Bütschli (Parabasalia) from the hindgut of the cockroach *Periplaneta Americana*”. G. Gile and C.H. Slamovits. European Congress of Protistology, Berlin, July 2011.

2010

1. Dear protists: got Meiosis? How do you maintain your genetic integrity? CIFAR Junior Fellow Academy Meeting, Toronto ON, June 2010 talk: S. B. Malik*, J. Logsdon, J. Carlton, B.S. Leander, C.H. Slamovits.

2009

1. *Invited speaker*. Lateral gene transfer, endosymbiosis and genome evolution in eukaryotes. International Congress of Protistology. Buzios, Brazil.

2008

- *Invited speaker*. New insights into the nuclear genomes of dinoflagellates. International Society of Evolutionary Protistology (ISEP), Halifax, NS.

2007

- Genomic approaches to unraveling eukaryotic molecular diversity in marine protists. Centre for Microbial Diversity and Evolution, Annual Meeting. Parksville, BC.
- Insights into the mitochondrial genome of the early branching dinoflagellate *Oxyrrhis marina*. Society for Molecular Biology and Evolution Conference, Halifax, NS.

2006

- Insights into the biology and evolution of *Oxyrrhis marina* through analysis of expressed sequence tags (EST). Invited Lecture, Molecular Biology of Genomes Symposium, International Society of Evolutionary Protistology (ISEP), 16 Meeting. Wroclaw, Poland.

2005

- The most reduced eukaryotic genomes. Canadian Institute for Advanced Research, Program in Evolutionary Biology. Annual Meeting, Parksville, B.C.
- Evolution of compact eukaryotic genomes: insights from the smallest nuclei. European Society for Evolutionary Biology 10th Meeting. Krakow, Poland.

2003

- Distantly related microsporidia share highly conserved genome order. Society for Molecular Biology and Evolution Conference, Newport Beach, California.

2000

- Recurrent amplifications and deletions of satellite DNA accompanied chromosomal diversification in South American tuco-tuco rodents: a phylogenetic approach (Talk in Spanish). XV Jornadas Argentinas de Mastozoología. La Plata, Argentina.

Teaching and supervision

2014-present: Lecturer and coordinator in BIOC4403/5403 (Genes and genomes), Dalhousie University

2010-present: Lecturer in BIOC3400 (Biochemistry of Nucleic Acids) Dalhousie University.

2009-present: Supervising/supervised two PhD student, one MSc student, six postdoctoral fellows, and 14 undergraduate students including Honours projects, Co-op

education and summer research, 3 visiting graduate students, one visiting PDF and one lab assistant/technician.

2005-2009: I supervised laboratory training of three undergraduate students and one postdoctoral researcher

2006-2007: I gave invited lectures in BIOL431 (Advanced Cell Biology) at UBC.

2001 - I held a **Lecturer** position at the National University of San Martín (Buenos Aires) where I designed and taught a course of Biology for Science schoolteachers.

Instructor

- 2001-2002: Instructor, University of Buenos Aires. Course: Molecular and Cell Biology. Roles: Main teaching in laboratory classes, supervising teaching assistants, designing class syllabuses and occasional lecturing.

Teaching Assistant

- 1994-1998: Second class teaching assistant, University of Buenos Aires. Courses: Genetics, Zoology, Molecular and Cell Biology.
- 1998-2001: First class teaching assistant, University of Buenos Aires. Courses: Molecular and Cell Biology, Evolution, Molecular Evolution (graduate course)

Administration and other activities

- *Institutional (Dalhousie University)*

2014-2018: Elected member, Faculty Council (FMED)

2013-present: Member, B&MB Academic Planning Committee. Chair 2016-17

2012-present: Member, B&MB Promotion and Tenure Departmental Committee. Chair 2016-17

2012-2013: Member, Faculty of Medicine Promotion and Tenure Committee.

2012-present: Member, B&MB Undergraduate Programs Committee.

2010-2011: Member, B&MB Promotion and Tenure Departmental Committee. Two applications for P&T and one for Promotion were considered during this period.

- *Other*

2012-present Treasurer of the International Society for Evolutionary Protistology (ISEP)

2013-present Awards board member; International Society of Protistologists

- *Organizing*

2016: Co-organizer and chair of ISOP symposium: The integrative co-evolution between mitochondria and their hosts. PROTIST2016 Conference, Moscow, Russian Federation.

2013: Scientific committee member, XIV International Congress of Protistology. Vancouver, BC.

2013: Co-Chair with Dr. Andrew Roger of the symposium “Phylogenomic approaches to

study early eukaryotic evolution”, XIV International Congress of Protistology.
Vancouver, BC.

2012: Organized the CIFAR Integrated Microbial Biodiversity Program Annual Meeting,
Quebec City, May 9-12th 2012. Attendance: 70.

2012: Organizer and moderator of a seminar for the AAAS 2012 Annual Meeting,
“Seeing Biosphere's Dark Matter: Genomic Methods on Uncultivable Microbial
Diversity” Vancouver, BC, February 16-20th, 2012.

- Grant reviewing

2019 NSERC Discovery Grants: reviewed 2 grants.

2017 National Science Foundation (USA) External reviewer.

2017 CFI/Fonds de recherche du Québec; John R. Evans Leaders Fund. External
reviewer.

2014 National Research Agency (France) – External reviewer.

2012/13 NSERC Discovery grant

2013 The Wisconsin Sea Grant Institute, external reviewer

- *Editorial*

Co-Editor, Handbook of the Protists (2nd edition of Margulis’ Handbook of Protoctista).
Published in 2017. Editors: John Archibald, Alastair Simpson and Claudio Slamovits.

- *Manuscript refereeing*

I consistently perform peer-review of manuscripts (3-6 times a year). I have reviewed
manuscripts for the following journals:

*ISME Journal, Current Biology, Molecular and Biochemical Parasitology, Nucleic Acids
Research, Molecular Biology and Evolution, Journal of Molecular Evolution,
Phycological Research, PLOS One, Journal of Eukaryotic Microbiology, Journal of Cell
Science, BMC Genomics, Protist, Genome Biology and Evolution, Molecular Ecology,
BMC Evolutionary Biology, PLOS Pathogens, BMC Biology.*

Memberships:

International Society of Evolutionary Protistology (member and Treasurer)

Society for the study of Molecular Biology and Evolution

International Society of Protistologists

International Symbiosis Society

American Society of Microbiologists

Languages

Proficiency in Spanish (mother tongue) and English (speak, read and write
fluently)