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Assistant Professor
Department of Biological Sciences
University of Rhode Island
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WORK EXPERIENCE

University of Rhode Island, Assistant Professor
Department of Biological Sciences Sept 2008 - Present

Dalhousie University, Postdoctoral Fellow
Archibald Laboratory, Dept. of Biochem. & Mol. Biol. Nov 2004 – Aug 2008

EDUCATION

University of New Brunswick, NB. Canada
Ph.D. (Switched from MSc. to Ph.D. program in 2001) 2004
Thesis title: Molecular investigations in the brown algal order Laminariales

Trinity College, Hartford, CT. USA
Bachelor of Science with Honors in Biology 1999
Thesis title: Systematic and ecological studies of the genus *Vaucheria*

ACADEMIC HONORS

Governor General's Gold Medal, University of New Brunswick 2005
Awarded for the best thesis at the university during the previous year.

J. Wendell Burger Prize in Biology; Trinity College, 1999
Awarded to the graduating student biology major who, in the opinion of the faculty, has demonstrated the greatest promise for a career in biology.

GRANTS

NSF (DEB/IOS), Evol. Genetics / Symbiosis and Self Defense (\$550,000) 2013-2016
Red Algae: A New Model For the Evolution of Parasitism
C. E. Lane

RI STAC (\$80,650) 2013-2014
The Rhode Island Seaweed Project
C. E. Lane & B. Wysor
Total award: \$142,111

NSF (DEB), Systematic Biology & Biodiversity Inventories (\$382,740) 2011-2014
RUI: Collaborative Research: The Bermuda Seaweed Project (1120652)

C. E. Lane & C. W. Schneider
Total budget: \$472,239

- USDA, CREES (\$229,320) 2009-2011
Shellfish, RI: High throughput genomics approach for immune-related marker identification in the Eastern Oyster, *Crassostrea virginica*.
M. Gomez-Chiarri, C. E. Lane & D. Proestou
- Joint Genome Inst. (in kind contribution of sequencing and bioinformatics) 2007-2010
Impact of secondary endosymbiosis on eukaryotic genome evolution and cell biology: a cryptomonad and a chlorarachniophyte nuclear genome
J. M. Archibald, M. W. Gray, P. J. Keeling, G. I. McFadden, C. E. Lane
- Society for Molecular Biology and Evolution Young Investigator Award (~\$5,000) 2005
Money awarded for travel and accommodation at the 2005 SMBE meeting (Auckland, NZ) and subsequent invited workshop.
- A. R. A. Taylor Graduate Fellowship (\$4,000 CDN) 2003-2004

PEER-REVIEWED PUBLICATIONS (TRAINEES UNDERLINED)

- O'Brien, M, I. Misner, C. E. Lane 2013. Mitochondrial genome sequences and comparative genomics of *Achlya hypogyna* and *Thraustotheca clavata*. *Journal of Eukaryotic Microbiology*: in press.
- Schneider, C. W., G. W. Saunders, C. E. Lane 2013. The monospecific genus *Meredithia* (Kallymeniaceae, Gigartinales) is species-rich and geographically widespread with species from temperate Atlantic, Pacific and Indian oceans. *Journal of Phycology*. In press.
- Popolizio, T. R., C. W. Schneider, T. Chengsupanimit, G. W. Saunders & C. E. Lane 2013. Notes on the marine algae of the Bermudas. 13. *Helminthocladia kempii* sp. nov. (Nemaliales, Liagoraceae) based upon *H. calvadosii sensu auct.* from the western Atlantic. *Cryptogamie, Algologie*. 34:229-234.
- Misner*, I., C. Bicep*, P. Lopez, S. Halary, E. Bapteste & C. E. Lane 2013. Sequence Comparative Analysis using Netowrks (SCAN): software for evaluating de novo transcript assembly from next generation sequencing. *Molecular Biology and Evolution*. 30:1975-1986. (*equal contribution)
- Curtis, B. A., G. Tanifuji, F. Burki, A. Gruber, M. Irimia, S. Maruyama, M. C. Arias, S. G. Ball, G. H. Gile, Y. Hirakawa, J. F. Hopkins, A. Kuo, S. A. Rensing, J. Schmutz, A. Symeonidi, M. Elias, R. J. M. Eveleigh, E. K. Herman, M. J. Klute, T. Nakayama, M. Obornik, A. Reyes-Prieto, E. V. Armbrust, S. J. Aves, R. G. Beiko, P. Coutinho, J. B. Dacks, D. G. Durnford, N. M. Fast, B. R. Green, C. Grisdale, F. Hempel, B. Henrissat, M. P. Höppner, K.-I. Ishida, E. Kim, L. Kořený, P. G. Kroth, Y. Liu, S.-B. Malik, U. G. Maier, D. McRose, T. Mock, J. A. D. Neilson, N. T. Onodera, A. M. Poole, E. J. Pritham, T. A. Richards, G. Rocap, S. W. Roy, C. Sarai, S. Schaack, S. Shirato, C. H. Slamovits, D. F. Spencer, S. Suzuki, A. Z. Worden, S. Zauner, K. Barry, C. Bell, A. K. Bharti, J. A. Crow, J. Grimwood, R. Kramer, E. Lindquist, S. Lucas, A. Salamov, G. I. McFadden, C. E. Lane, P.J. Keeling, M. W. Gray, I. V. Grigoriev, J. M. Archibald. 2012. Cryptophyte and chlorarachniophyte nuclear genomes reveal evolutionary mosaicism and fate of nucleomorphs. *Nature*. 492:59-65.

- Adl, S. M., A. G. B. Simpson, **C. E. Lane**, J. Lukes[~], D. Bass, S. S. Bowser, M. W. Brown, F. Burki, M. Dunthorn, V. Hampl, J. A. Heiss, M. Hoppenrath, E. Lara, L. Le Gall, D. H. Lynn, H. Mcmanus, E. A. D. Mitchell, S. E. Mozley-Stanridge, L. W. Parfrey, J. Pawlowski, S. Rueckert, L. Shadwick, C. L. Schoch, A. Smirnov & F. W. Spiegel 2012. The revised classification of eukaryotes. *Journal of Eukaryotic Microbiology*. 59:429-493
- Price, D. C., C. X. Chan, H. S. Yoon, E. C. Yang, H. Qiu, A. P. M. Weber, R. Schwacke, J. Gross, N. A. Blouin, **C. E. Lane**, A. Reyes-Prieto, D. G. Durnford, J. A. D. Neilson, B. F. Lang, G. Burger, J. M. Steiner, W. Löffelhardt, J. E. Meuser, M. C. Posewitz, S. Ball, M. C. Arias, B. Henrissat, P. M. Coutinho, S. A. Rensing, A. Symeonidi, H. Doddapaneni, B. R. Green, V. D. Rajah, J. Boore, and D. Bhattacharya **2012**. *Cyanophora paradoxa* genome elucidates origin of photosynthesis in algae and plants. *Science*. 335:843-847.
- Blouin, N. A. & **C. E. Lane** **2012**. Red algal parasites: Models for a life history evolution that leaves photosynthesis behind again and again. *Bioessays*. 34(3):226-235.
- Schneider, C. W., D. C. McDevit, G. W. Saunders, **C. E. Lane** **2011**. Notes on the marine algae of the Bermudas. 12. A phylogenetic assessment of *Nemastoma gelatinosum* M. Howe (Rhodophyta, Nemastomatales) from its type locality. *Cryptogamie Algologie*. 32:313-325.
- Hancock, L., L. Goff, **C. E. Lane**. **2010**. Red algae lose key mitochondrial genes in response to becoming parasitic. *Genome Biology and Evolution*. 2:897-910.
- Cianciola E. N., T. R. Popolizio, C. W. Schneider & **C. E. Lane**. **2010**. Using Molecular-Assisted Alpha Taxonomy to better understand algal biodiversity. *Diversity*. 2:946-958.
- Schneider, C. W., **C. E. Lane** & G. W. Saunders. **2010**. Notes on the marine algae of the Bermudas. 11. More additions to the benthic flora and a phylogenetic assessment of *Halymenia pseudofloresii* (Halymeniales, Rhodophyta) from its type locality. *Phycologia*. 49:154-168.
- Archibald, J. M. & **C. E. Lane**. **2009** Going, going, not quite gone: nucleomorphs as a case study in nuclear genome reduction. *Journal of Heredity*. 100:582-590.
- Schneider, C. W. & **C. E. Lane**. **2008**. Notes on the marine algae of the Bermudas. 9. The genus *Botryocladia* (Rhodophyta, Rhodymeniaceae), including *B. bermudana*, *B. exquisita* and *B. flookii* spp. nov. *Phycologia*. 47:614-629.
- Kim, E., **C. E. Lane**, C. Kozera, B. Curtis, S. Bowman & J. M. Archibald. **2008**. Complete sequence and analysis of the mitochondrial genome of *Hemiselmis andersenii* CCMP644 (Cryptophyceae). *BMC Genomics*. 9:215.
- Lane, C. E.** & J. M. Archibald. **2008**. The eukaryotic Tree of Life: endosymbiosis takes its TOL. *Trends in Ecology and Evolution*. 23:268-275.
- Lane, C. E.** & J. M. Archibald. **2008**. New marine members of the genus *Hemiselmis* (Cryptomonadales, Cryptophyceae). *Journal of Phycology*. 44:439-450.
- Phipps, K. D., N. A. Donaher, **C. E. Lane** and J. M. Archibald. **2008**. Nucleomorph karyotype diversity in the freshwater cryptophyte genus *Cryptomonas*. *Journal of Phycology*. 44:11-14.
- Lane, C. E.**, K. S. van den Heuvel, C. Kozera, B. Curtis, B. Parsons, S. Bowman & J. M. Archibald. **2007**. Nucleomorph genome of *Hemiselmis andersenii* reveals complete intron loss and compaction as a driver of protein structure and function. *Proceedings of the National Academy of Sciences, USA*. 104:19908-19913.

- Adl, S. M., B. S. Leander, A. G. B. Simpson, J. M. Archibald, O. R. Anderson, D. Bass, S. S. Bowser, G. Brugerolle, M. A. Farmer, S. Karpov, M. Kolisko, **C. E. Lane**, J. Lodge, D. G. Mann, R. Meisterfeld, L. Mendoza, Ø. Moestrup, S. E. Mozley-Standridge, A. V. Smirnov & F. Spiegel. **2007**. Diversity, nomenclature, and taxonomy of protists. *Systematic Biology*. 56:684-689.
- C. W. Schneider & **C. E. Lane**. **2007**. Notes on the marine algae of the Bermudas. 8. Further additions to the flora including *Griffithsia aestivana* sp. nov. (Ceramiaceae, Rhodophyta) and an update on the alien *Cystoseira compressa* (Sargassaceae, Heterokontophyta). *Botanica Marina*. 50:128-140.
- Lane, C. E.**, S. Lindstrom & G. W. Saunders. **2007**. A molecular assessment of northeast Pacific *Alaria* species (Laminariales, Phaeophyceae) with reference to the utility of DNA barcoding. *Molecular Phylogenetics and Evolution*. 44:634-648.
- Saunders G. W., **C. E. Lane**, Craig W. Schneider, and Gerald T. Kraft. **2006**. Unraveling the *Asteromenia peltata* species complex with clarification of the genera *Halichrysis* and *Drouetia* (Rhodymeniaceae, Rhodophyta). *Canadian Journal of Botany*. 84:1581-1607.
- De Clerck, O., F. Leliaert, H. Verbruggen, **C. E. Lane**, J. C. De Paula, D. A. Payo & E. Coppejans. **2006**. Large subunit rubisco and 26S ribosomal DNA sequences call for a revised classification of the Dictyoteae (Dictyotales, Phaeophyceae). *Journal of Phycology*. 42:1271-1288.
- Lane, C. E.** & J. M. Archibald. **2006**. Novel Nucleomorph Genome Architecture in the Cryptomonad Genus *Hemiselmis*. *Journal of Eukaryotic Microbiology*. 53:515-521.
- Ruiz-Trillo, I., **C. E. Lane**, J. M. Archibald & A. J. Roger. **2006**. Insights into the Evolutionary Origin and Genome Architecture of the Unicellular Opisthokonts *Capsaspora owczarzaki* and *Sphaeroforma arctica*. *Journal of Eukaryotic Microbiology*. 53:379-384.
- Lane, C. E.***, H. Khan*, M. MacKinnon, A. Fong, S. Theophilou & J. M. Archibald. **2006**. Insight into the diversity and evolution of the cryptomonad nucleomorph genome. *Molecular Biology and Evolution*. 23:856-865. *Equal Contributors
- Lane, C. E.**, C. M. Mayes, L. Druehl & G. W. Saunders. **2006**. A multi-gene molecular investigation of the kelp (Laminariales, Phaeophyceae) resolves competing phylogenetic hypotheses and supports substantial taxonomic re-organization. *Journal of Phycology*. 42: 493-512.
- Schneider, C.W., **C. E. Lane** & G. W. Saunders. **2006**. *Crassitegula walsinghamii* (Sebdeniaceae, Halymeniales), a new red algal genus and species from Bermuda based upon morphology and SSU rDNA sequence analyses. *European Journal of Phycology*. 41: 115-124.
- Lane, C. E.** & G. W. Saunders. **2005**. Molecular investigation reveals epiphytic extrageneric kelp (Laminariales, Phaeophyceae) gametophytes on *Lessoniopsis littoralis* thalli. *Botanica Marina* 48:426-436.
- Adl, S. M., A. G. B. Simpson, M. A. Farmer, R. A. Andersen, O. R. Anderson, J. Barta, S. S. Bowser, G. Brugerolle, R. A. Fensome, S. Fredericq, T. Y. James, S. Karpov, P. Kugrens, J. Krug, **C. E. Lane**, L. A. Lewis, J. Lodge, D. H. Lynn, D. G. Mann, R. M. Mccourt, L. Mendoza, Ø. Moestrup, S. E. Mozley-Standridge, T. A. Nerad, C. A. Shearer, A. V. Smirnov, F. Spiegel and M. F. J. R. Taylor. **2005**. The New Higher Level Classification of Eukaryotes with Emphasis on the Taxonomy of Protists. *Journal of Eukaryotic Microbiology*. 52:399-432.

- Druehl, L., J. Collins, **C. E. Lane** & G. W. Saunders. **2005**. A critique of intergeneric kelp hybridization protocol, employing Pacific Laminariales. *Journal of Phycology* 41:250-262
- Schneider, C.W. & **C. E. Lane**. **2005**. Notes on the marine algae of the Bermudas. 7. Additions to the flora including *Chondracanthus saundersii* sp. nov. (Rhodophyta, Gigartinaceae) based upon *rbcL* sequence analysis. *Phycologia* 44:72-83.
- Dunphy, M.E., D.C. McDevit, **C. E. Lane** & C.W. Schneider. **2001**. The survival of *Vaucheria* (Vaucheriaceae) propagules in desiccated New England riparian sediments. *Rhodora* 103:916 416-426.
- Schneider, C.W. & **C. E. Lane**. **2000**. A new species of *Botryocladia* (Rhodymeniales, Rhodophyta) from the Galapagos Islands. *Cryptogamie Algologie* 21: 167-175
- Schneider, C.W. & **C. E. Lane**. **2000**. Two species of *Vaucheria* new for New England, *V. liliifera* and *V. racemosa*. *Northeastern Naturalist* 7: 25-32.
- Schneider, C.W., **C. E. Lane**, & A. Norland. **1999**. The freshwater species of *Vaucheria* (Tribophyceae, Chrysophyta) from Connecticut. *Rhodora* 101: 235-263.

INVITED REVIEWS, COMMENTARIES AND CHAPTERS

- Lane, C. E. 2010**. The genomic imprint of endosymbiosis. In: *Evolution After Darwin: The First 150 Years*. Sinauer Associates. pp. 377-380.
- Lane, C. E. & D. Durnford 2010**. Endosymbiosis and the evolution of plastids. In: *Molecular Phylogeny of Microorganisms*. Horizon Press. Norwich. pp. 185-216.
- Lane, C. E. & J. Archibald. 2009**. Reply to Bodyl, Stiller and Mackiewicz: "Chromalveolate plastids: direct descent or multiple endosymbioses?" *Trends in Ecology and Evolution*. 24:121-122.
- Lane, C. E. 2007**. Bacterial endosymbionts: Genome reduction in a hot spot. *Current Biology*. 17:R508-R510.
- Lane, C. E. & G. W. Saunders. 2005**. Brown Algae. Encyclopedia of Life Sciences, Macmillan Reference Ltd.

TEACHING EXPERIENCE

- BIO130 (1cr) Topics in Marine Biology – F12
- BIO501 (1cr) Advanced Scientific Communication – F11, F12
- BIO500 (2cr) Advanced Scientific Ethics – F11, F12
- BIO321 (1.5cr) Plant Diversity (algal portion of team taught class) – S11, S12
- BIO594 (0.5cr) Special Topics: Advanced Evolution – S11, S12
- BIO365 (4cr) Biology of Algae – S10, S11, S12
- BIO593 (1cr) Special Topics: Genome Analysis Methods – F09
- BIO594 (1cr) Special Topics: Symbioses S09
- BIO582 (1cr) Biology Colloquium – F08, S/F09, S/F10, S/F11

MANUSCRIPT REVIEWS (JOURNALS ONLY)

Aquatic Botany, Acta Phytotaxonomica Sinica, BMC Evolutionary Biology, BMC Plant Biology, Canadian Journal of Botany, Current Biology, Eukaryotic Cell, Genome

Biology, Genome Biology & Evolution, International Journal of Systematics and Evolutionary Microbiology, Journal of Eukaryotic Microbiology, Journal of Phycology (Associate Editor 2012-2015), Journal of Bacteriology, Mammalian Genome, Marine Biology, Molecular Biology and Evolution, Molecular Phylogenetics and Evolution, Phycologia, Phycological Research, PLoSOne, Proceedings of the National Academy of Science, USA, Proceedings of the Royal Society, B, Protist, Science

GRANT REVIEWS

National Science Foundation, DEB – Systematic Biology & Biodiversity Inventories, (2008), Panel reviewer (2010), Preproposal panel reviewer (2012). IOS – Symbiosis and Self Defense Preproposal panel reviewer (2013).

Czech Science Foundation, Grantová agentura České republiky, (2008).

Netherlands Organisation for Scientific Research (NWO) *Veni programme* (Innovational Research Incentive Scheme) (2006).

INVITED LECTURES (LOCATION AND DATE)

Smith College, North Hampton Ma. 2013

Trinity College, Hartford, Ct. 2013

Brown University, Providence, RI. EEB Department, 2012

Northeast Algal Symposium, *Keynote Speaker*, Woods Hole, MA. 2011

WHOI Biology Department, Woods Hole, MA. 2011

Paulinella Genome meeting, Bar Harbor, ME. 2011

Department of Plant Biology, University of Ohio, Athens, OH. 2011

Society for General Microbiology, York, U.K. 2011

Phycological Society of America, Seattle, WA. 2011

Ecology and Evolution Department, Stony Brook University, NY. 2010

Cyanophora Genome meeting, New Brunswick, NJ. 2010

Natural History Museum, Paris, France 2009

Department of Biology, Rhode Island College, Providence, RI. 2009.

Department of Biology, University of New Brunswick, Fredericton, NB, Canada. 2008.

Department of Biology, Roger Williams University, Bristol, RI. 2008.

Plant Biology and Botany Joint Conference, Chicago, Illinois. 2007.

Biology Dept., Dalhousie University, Halifax, Nova Scotia. 2006.

Young Investigator Workshop (Society for Molecular Biology and Evolution), Palmerston North, New Zealand. 2005.

Biology Dept., Dalhousie University, Halifax, Nova Scotia. 2004.

CONTRIBUTED ORAL PRESENTATIONS (PRESENTER FIRST, TRAINEES UNDERLINED)

Lane, C., I. Misner, G. Leonard, T. Richards. International Congress of Protistology, Vancouver, BC, Canada 2013

Popolizio, T., C. Schneider, C. Lane. Evolution, Snowbird, Utah, 2013

Popolizio, T., C. Schneider, C. Lane. Northeast Algal Symposium, Mystic, Ct. 2013

Bloiun, N., C. Lane. Northeast Algal Symposium, Mystic, Ct. 2013

Salomaki, E., C. Lane. Northeast Algal Symposium, Mystic, Ct. 2013

Misner, I, C. Lane. International Society for Evolutionary Protistology, Oslo, Norway. 2012

Lane, C, N, Blouin. International Society for Evolutionary Protistology, Oslo, Norway. 2012

Lane, C, I, Misner. Phycological Society of America, Charleston, SC. 2012

Blouin, N, C Lane. Phycological Society of America, Charleston, SC. 2012

Lane, C, I, Misner. Northeast Algal Society, Schoodic Point, ME. 2012

Blouin, N, C Lane. Northeast Algal Society, Schoodic Point, ME. 2012

Popolizio, T, C Schneider, C Lane. Northeast Algal Society, Schoodic Point, ME. 2012

Blouin, N, C Lane. Northeast Algal Society, Woods Hole, MA 2011

Misner I, P Lopez, E Bapteste, JC Bailey, C Lane. Phycological Society of America Meeting. Seattle, WA. 2011

Misner I, P Lopez, E Bapteste, JC Bailey, C Lane. Oomycete Molecular Genetics Network, Pacific Grove, CA. 2011

Popolizio, T, C Lane, C Schneider. Northeast Algal Society, Woods Hole, MA 2011

Popolizio, T, C Lane, C Schneider. Phycological Society of America, Seattle, WA 2011

Grandpre, S, P Lopez, E Bapteste, C Lane. Northeast Algal Society, Woods Hole, MA 2011

C. E. Lane & Lilly Hancock. International Society for Evolutionary Protistology, Kanazawa, Japan 2010

Ian Misner, Kristi Sommer, J. Craig Bailey & C. E. Lane. International Society for Evolutionary Protistology, Kanazawa, Japan 2010

Ian Misner, Kristi Sommer, J. Craig Bailey & C. E. Lane. Evolution. Portland, OR 2010

Lilly Hancock and C. E. Lane. Evolution. Portland, OR 2010

Thea Popolizo, Elisabeth Cianciola, Craig Schneider and C. E. Lane. Evolution. Portland, OR 2010

Lilly Hancock and C. E. Lane. Northeast Algal Society annual meeting, Bristol, RI. 2010

Ian Misner, Kristi Sommer, J. Craig Bailey & C. E. Lane. Northeast Algal Society annual meeting, Bristol, RI. 2010

Elisabeth Cianciola, Thea Popolizo, Craig Schneider and C. E. Lane. Northeast Algal Society annual meeting, Bristol, RI. 2010

Ian Misner, Kristi Sommer, J. Craig Bailey & C. E. Lane. Evidence for a photosynthetic ancestry of the oomycetes *sensu lato*. Society for Molecular Biology and Evolution, Iowa City. 2009.

Lilly Hancock & C. E. Lane. Unraveling the role of mitochondria in Red Algal Parasite Evolution. Society for Molecular Biology and Evolution, Iowa City.

Ian Misner, Kristi Sommer, J. Craig Bailey & C. E. Lane. Is there a relic plastid in oomycetes? Northeast Algal Society annual meeting, Amherst, Ma. 2009.

Lilly Hancock & C. E. Lane. Mitochondria in red algae parasite evolution. Northeast Algal Society annual meeting, Amherst, Ma.

- J. Craig Bailey, Kristi M. Sommer & C. E. Lane. Evidence for a vestigial plastid genome in oomycetes. International Society of Evolutionary Protistology, Halifax, NS, Canada. 2008.
- Natalie Donaher, C. E. Lane, Stephanie A. Malfatti, Patrick Chain, & John M. Archibald. 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. International Society of Evolutionary Protistology, Halifax, NS, Canada. 2008.
- C. E. Lane, Bruce A. Curtis & John M. Archibald. Origin and evolution of the cryptophyte nucleomorph proteome. International Society of Evolutionary Protistology, Halifax, NS, Canada. 2008.
- C. E. Lane, John Archibald. Endosymbiotic gene transfer in cryptophyte algae: where did the nucleomorph genes go? Northeast Algal Society annual meeting, Durham, NH. 2008
- Craig W. Schneider and C. E. Lane. Updated morphological and molecular investigations of the genus *botryocladia* (rhodophyta, rhodymeniaceae) in bermuda, including three new species. Northeast Algal Society annual meeting, Durham, NH. 2008
- C. E. Lane, Krystal van den Heuvel, Bruce Curtis, Anna Fong, Catherine Kozera, Byron Parsons, Sharen Bowman & John M. Archibald. The consequences of genome reduction in eukaryotes inferred from nucleomorph comparative genomics. Annual meeting of the Phycological Society of America, Warwick, Rhode Island. 2007.
- Eunsoo Kim, C. E. Lane & John M. Archibald. Complete sequence and analysis of the mitochondrial genome of *Hemiselms andersenii* CCMP644 (Cryptophyceae). Annual meeting of the Phycological Society of America, Warwick, Rhode Island. 2007.
- Craig Schneider & C. E. Lane. A morphological and molecular investigation of the genus *Botryocladia* (Rhodophyta, Rhodymeniaceae) in Bermuda, western Atlantic. Annual meeting of the Phycological Society of America, Warwick, Rhode Island. 2007.
- C. E. Lane, Krystal van den Heuvel, Bruce Curtis, Anna Fong, Catherine Kozera, Byron Parsons, Sharen Bowman & John M. Archibald. Impact of genome reduction on the eukaryotic proteome: nucleomorphs as a case study. Society for Molecular Biology and Evolution, Halifax, Canada. 2007.
- C. E. Lane & John M. Archibald. Re-assessing species boundaries in the cryptomonad genus *Hemiselms*. Northeast Algal Society annual meeting, Narragansett, Rhode Island. 2007.
- C. E. Lane, Catherine Kozera, Sharen Bowman, Bruce Curtis & John M. Archibald. A second look at secondary endosymbiosis. International Society of Evolutionary Protistology, Wroclaw, Poland. 2006.
- C. E. Lane, Catherine Kozera, Sharen Bowman, Bruce Curtis & John M. Archibald. The Nucleomorph genome of the cryptomonad *Hemiselms rufescens* CCMP644. Northeast Algal Society annual meeting, Poughkeepsie, New York. 2006.
- C. E. Lane, Sandra Lindstrom & Gary Saunders. When to check your barcode: An example from the kelp genus *Alaria* (Laminariales, Phaeophyceae) Society for Molecular Biology and Evolution, Auckland, New Zealand. 2005.

- C. E. Lane, Melissa MacKinnon, Hameed Khan & John M. Archibald. Genomic diversity and chromosome structure of cryptomonad nucleomorphs. Northeast Algal Society annual meeting, Rockport, Maine. 2005.
- C. E. Lane, Sandra Lindstrom and Gary W. Saunders. Using Northeastern Pacific *Alaria* (Laminariales, Phaeophyceae) to investigate the utility of "DNA barcoding" outside the animal kingdom. International Society of Evolutionary Protistology, Melbourne, Australia. 2005.
- C. E. Lane & Gary W. Saunders. *Lessoniopsis littoralis* (Tild.) Reinke: promiscuous propagator or kindergarten kelp? Northeast Algal Society annual meeting, Groton, Connecticut. 2004.
- Craig W. Schneider & C. E. Lane. A new species of *Chondracanthus* from Bermuda – extinction before description? Northeast Algal Society annual meeting, Groton, Connecticut. 2004.
- C. E. Lane, Charlene Mayes, Louis Druehl & Gary W. Saunders. A multi-gene survey of kelp (Laminariales, Phaeophyceae) phylogeny using molecular data: Is resolution in sight? Third European Phycological Congress, Belfast, Ireland. 2003.
- C. E. Lane, Sandra Lindstrom and Gary W. Saunders. Plasticity and morphological mayhem: using sequence data to test morphological species in the genus *Alaria* (Laminariales; Phaeophyceae). Northeast Algal Society annual meeting, Saratoga Springs, New York. 2003.
- C. E. Lane, Charlene Mayes & Gary W. Saunders. Resolving Kelp Phylogeny: A multi-gene perspective. International Society of Evolutionary Protistology, Vancouver, British Columbia. 2002.
- C. E. Lane, Craig W. Schneider & Gary W. Saunders. Using DNA to revisit a few Bermudan red algae of uncertain taxonomic placement. Northeast Algal Society annual meeting, Plymouth, Massachusetts. 2002.
- C. E. Lane, Charlene Mayes & Gary W. Saunders. Using additional genes to shed light on the unresolved issues in kelp (Laminariales; Phaeophyceae) systematics. International Phycological Symposium, Thessaloniki, Greece. 2001.
- C. E. Lane, Charlene Mayes & Gary W. Saunders. Using additional gene systems to understand kelp (Laminariales; Phaeophyceae) evolution. Northwest Algal Society annual meeting, Whidby Island, Washington. 2001.
- C. E. Lane, Charlene Mayes & Gary W. Saunders. Inferring kelp (Laminariales; Phaeophyceae) phylogeny using two additional gene systems. Northeast Algal Society annual meeting, Portsmouth, New Hampshire. 2001.
- Gary W. Saunders, C. E. Lane & Charlene Mayes. A candid assessment of systematics in the Laminariales: muddled morphologies and sketchy sequences. Annual meeting of the Phycological Society of America, St. Louis, Missouri. 2000.
- C. E. Lane & Gary W. Saunders. An assessment of the utility of the LSU ribosomal DNA for inferring kelp (Laminariales; Phaeophyceae) phylogeny. Northeast Algal Society annual meeting, West Greenwich, Rhode Island. 2000.
- C. E. Lane, Anna Norland & Craig W. Schneider. A survey of the freshwater species of *Vaucheria* (Tribophyceae; Chrysophyta) from Connecticut. Northeast Algal Society annual meeting, Plymouth, Massachusetts. 1999.

PROFESSIONAL SOCIETY MEMBERSHIP

American Association for the Advancement of Science
International Phycological Society
International Society for Evolutionary Protistology
Northeast Algal Society
Phycological Society of America
Society for Molecular Biology and Evolution

SERVICE

Departmental Community Service

Biological Sciences Departmental Colloquium Coordinator (Fall 2008 – present)
Biological Sciences Departmental Graduate Committee (Fall 2009 – Spring 2012)
Co-organizer of the Cruickshank Lecture Series in Biology (Fall 2009) Biological Sciences
Departmental Reorganization Committee (Fall 2008)

College Service

Dean's advisory committee (Spring 2011-present)
Marine Bioinformatics faculty search committee (Fall 2012)

University Community Service

I was heavily involved in writing the successful EPSCoR grant that was awarded in the summer of 2010 - a process that began in the summer of 09. I was a part of the core writing team for this grant and worked along side Dr. Brad Moran, the EPSCoR office and the rest of the writing team to produce a strong proposal. The grant will bring roughly \$20M to Rhode Island in support and infrastructure over 5 years.

In the summers of 2011 and 2012 I developed and implemented a genetics course for the RITES program. This effort to train grade 6-12 teachers in scientific advances and provide teaching tools through technology has been assisting Rhode Island teachers for three years. In the two years I have been involved, I have instructed ~125 teachers and provided advice and class visits to several during the school year.

Professional Society Service

Phycological Society of America – Associate Editor (genomics)	2012-2015
Phycological Society of America – Editorial Board	2009-2014
Co-convener of the Northeast Algal Symposium in Bristol, RI.	2010
Phycological Society of America - Education committee (Chair)	2008-2009
Northeast Algal Society - Nominations committee (Chair)	2005-2009