

Christopher Evans Lane

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WORK EXPERIENCE

University of Rhode Island, College of the Environment and Life Sciences Interim Associate Dean for Research	July 2025 – June 2026
University of Rhode Island, Department Chair Department of Biological Sciences	July 2022 - 2025
University of Rhode Island, Professor Department of Biological Sciences	July 2018 - Present
University of Rhode Island, Associate Professor Department of Biological Sciences	July 2014 - 2018
University of Rhode Island, Assistant Professor Department of Biological Sciences	Sept 2008 - 2014
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) Thesis title: Molecular investigations in the brown algal order Laminariales	2004
Trinity College, Hartford, CT. USA Bachelor of Science with Honors in Biology Thesis title: Systematic and ecological studies of the genus <i>Vaucheria</i>	1999

GRANTS (Lane Lab Budget) TOTAL: (\$6,045,772) \$11,667,765

NSF (IOS) (\$1,231,145) UKRI/BBSRC-NSF/BIO: The evolutionary transition of host-microbe interactions from commensal symbionts to blood parasites C. E. Lane (Lead) & R. Waller (Cambridge, UK) Total award: \$2,276,145	2024-2028
NSF (DEB) (\$1,274,560)	2023-2027

PurSUIT: Untangling a clade of inter-dependent apicomplexans and their bacterial endosymbionts
C. E. Lane

Gordon and Betty Moore Foundation (\$173,123) 2020-2026
Developing host independent culturing methods for Gregarines.
Rueckert (U Napier), Tsaousis (U. Kent), Lane
Total award: \$764,000

Gordon and Betty Moore Foundation \$439,212 2020-2025
UniEuk Implementation Phase
C. E. Lane

Fulbright Foreign Scholarship (€19,200) 2021-2022
Sabbatical support to live in France
C. E. Lane

NSF (DEB) (\$83,346) 2018-2020
Collaborative Proposal: Workshop to stimulate research on microbial eukaryotes
C.E. Lane
Total Award: \$99,178

USAID SHERA (\$327,000) 2017-2021
Interdisciplinary Graduate Education and Research in Animal Biotechnology and Coral Reef Fisheries to Achieve Indonesian Food Security.
IPB (Bogor Indonesia), Mississippi State University, A. Humphries & C. E. Lane (URI)
Total award: \$2.9m

NSF (DEB) GoLife (\$1,338,505) 2016-2021
GoLife: Collaborative Research: Bringing the diverse microbial clade Stramenopila + Alveolata + Rhizaria (SAR) into a modern genomic context.
C. E. Lane, Charles Delwiche & Laura Katz
Total award: \$2.5m

NIH (NIAID) \$145,491 2016-2018
Comparative Genomics of a Unique Mutualistic Apicomplexan
C. E. Lane

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 award: \$472,239

USDA, (CREES) 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
Total award: \$229,320

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

PEER-REVIEWED PUBLICATIONS (TRAINEES UNDERLINED)

- Terpis, K. X., E. D. Salomaki, D. Barcytè, T. Pánek, H. Verbruggen, M. Kolisko, J. C. Bailey, M. Eliáš, **C. E. Lane 2025**. Multiple plastid losses within photosynthetic stramenopiles revealed by comprehensive phylogenomics. *Current Biology*. 10.1016/j.cub.2024.11.065
- Jongbloed, W. M, C. W. Schneider, **C. E. Lane**, M. M. Cassidy, G. W. Saunders. **2024**. A revision of the genus *Wrangelia* (Wrangeliaceae, Ceramiales) in Bermuda resolves six new species including *W. ryancraigii* from the mesophotic zone. *Journal of Phycology*. 60: 886-907
- Borbee, E. M., I. A. Puspa, E. Restiana, F. Setiawan, B. Subhan, H. Madduppa, A. T. Humphries, **C. E. Lane 2024**. Surface currents shape protist community structure across the Indo-Pacific. *Journal of Phycology*. 60: 816-833
- Borbee, E. M., I. A. Puspa, P. Carvalho, E. Restiana, F. Setiawan, B. Subhan, A. T. Humphries, H. Madduppa, **C. E. Lane 2023**. Rubble fields shape planktonic protist communities in Indonesia at a local scale. *Journal of Eukaryotic Microbiology*. e12954
- Pratomo, A., D. G. Bengen, N. P. Zamani, **C. E. Lane**, A. T. Humphries, E. Borbee, B. Subhan, H. Madduppa **2022**. Diversity and distribution of Symbiodiniaceae detected on coral reefs of Lombok, Indonesia using environmental DNA metabarcoding. *PeerJ*. e14006.
- Paight, C., L. Hunter, **C. E. Lane 2022**. Codependence in the *Nephromyces* species swarm depends on heterospecific bacterial endosymbionts. *Current Biology* 32(13), 2948-2955.
- Salomaki, E. D., K. X. Terpis, S. Rueckert, M. Kotyk, Z. K. Varadínová, I. Čepička, **C. E. Lane**, M. Kolisko **2021**. Gregarine single-cell transcriptomics reveals differential mitochondrial remodeling and adaptation in apicomplexans. *BMC biology* 19 (1), 1-19
- Freese, J. M., **C. E. Lane 2021**. Reorganizing parasitic Delesseriaceae: taxonomic revision of *Asterocolax*. *Phytotaxa* 525 (2), 124-136
- Forrester, G. E., M. T. McCaffrey, K. X. Terpis, **C. E. Lane 2021**. Using DNA barcoding to identify host-parasite interactions between cryptic species of goby (Coryphopterus: Gobiidae, Perciformes) and parasitic copepods (Pharodes tortugensis: Chondracanthidae, Cyclopoida). *Zootaxa* 5048 (1), 99-117.
- Handy, S. M., B. M. Ott, E. S. Hunter, S. Zhang, D. L. Erickson, M. M. Wolle, S. D. Conklin, **C. E. Lane 2020**. Suitability of DNA sequencing tools for identifying

- edible seaweeds sold in the United States. *Journal of Agricultural and Food Chemistry* 68 (52), 15516-15525.
- Hunter, L., C. Paight, C. E. Lane **2020**. Metabolic Contributions of an Alphaproteobacterial Endosymbiont in the Apicomplexan *Cardiosporidium cionae*. *Frontiers in Microbiology* 11:580719. doi: 10.3389/fmicb.2020.580719
- Schneider, C.W., **C.E. Lane**, D.C. McDevit & G.V. Filloramo **2020**. Proposal of the new genus *Gazzaea* (Rhodymeniaceae, Rhodophyta) to accommodate *Botryocladia flookii* C.W.Schneider & C.E.Lane. *Notulae Algarum* 153: 1–4.
- Salomaki, E. D., C. E. Lane **2020**. Response to Preuss and Zuccarello (2020): biological definitions that can be unambiguously applied for red algal parasites. *Journal of Phycology*. 56: 833-835
- Murray, A. E., J. Freudenstein, S. Gribaldo, R. Hatzenpichler, P. Hugenholtz, P. Kämpfer, K. T Konstantinidis, **C. E Lane**, R. T. Papke, D. H. Parks, R. Rossello-Mora, M. B. Stott, I. C. Sutcliffe, J. C. Thrash, S. N Venter, W. B. Whitman, S. G. Acinas, R. I. Amann, K. Anantharaman, J. Armengaud, B. J Baker, R. A Barco, H. B. Bode, E. S. Boyd, C. L. Brady, P. Carini, P. S.G. Chain, D. R. Colman, K. M. DeAngelis, M. Asuncion de los Rios, P. Estrada-de los Santos, C. A Dunlap, J. A Eisen, D. Emerson, T. J.G. Ettema, D. Eveillard, P. R. Girguis, U. Hentschel, J. T. Hollibaugh, L. A. Hug, W. P. Inskeep, E. P Ivanova, H.-P. Klenk, W.-J. Li, K. G. Lloyd, F. E. Löffler, T. P. Makhallanyane, D. P. Moser, T. Nunoura, M. Palmer, V. Parro, C. Pedrós-Alió, A. J. Probst, T. H.M. Smits, A. D. Steen, E. T. Steenkamp, A. Spang, F. J. Stewart, J. M. Tiedje, P. Vandamme, M. Wagner, F.-P. Wang, B. P. Hedlund, A.-L. Reysenbach **2020**. Roadmap for naming uncultivated Archaea and Bacteria. *Nature Microbiology*. 5: 987-994.
- Muth, A.F., M.H. Graham, **C. E. Lane**, C.D.G. Harley. **2019**. Recruitment tolerance to increased temperature present across multiple kelp clades. *Ecology*. 100: e02594 doi: <https://doi.org/10.1002/ecy.2594>
- Salomaki, E. D, C. E. Lane **2019** Molecular phylogenetics supports a clade of red algal parasites retaining native plastids: taxonomy and terminology revised. *Journal of Phycology* 5: 279-288. <https://doi.org/10.1111/jpy.12823>
- Paight, C.J., C.H. Slamovits, M.B. Saffo, C.E. Lane. **2019**. *Nephromyces* encodes a urate metabolism pathway and predicted peroxisomes, demonstrating that these are not ancient losses of Apicomplexans. *Genome Biology and Evolution*. 11:41-53.
- Adl, S. M., D. Bass*, **C. E. Lane***, J. Lukes*, and 43 additional authors **2019**. Revisions to the Classification, Nomenclature, and Diversity of Eukaryotes. *Journal of Eukaryotic Microbiology*. 66: 4-119. (*Equal Contribution)
- Schneider, C. W, **C. E. Lane** & G. W. Saunders **2018**. A revision of the genus *Cryptonemia* (Halymeniaceae, Rhodophyta) in Bermuda, western Atlantic Ocean, including five new species and *C. bermudensis* (Collins et M. Howe) comb. nov. *European Journal of Phycology*. 53:350-368.
- Grattepanche, J-D., L. M. Walker, B. M. Ott, D. L. Paim Pinto, C. F. Delwiche, **C. E. Lane** & L. A. Katz. **2018**. Analysis of biodiversity of Stramenopila, Alveolata and Rhizaria (SAR). *Bioessays*. 40:1700198
- Schneider, C.W., M.K. Griffith, **C.E. Lane** & G.W. Saunders **2018**. Notes on the marine algae of the Bermudas. 16. Two new epiphytic species of *Champia*

- (Champiaceae, Rhodymeniales), *C. hasselbringii* and *C. insularis*. *Cryptogamie, Algologie* 39: 431–447.
- C. W. Schneider, B. F. Hamzeh, **C. E. Lane**, G. W. Saunders **2018**. A new species of Digenea (Rhodomelaceae, Ceramiales) based upon a molecular assessment and morphological observations of plants historically known as *D. simplex* in Bermuda. *Phytotaxa*. doi:<http://dx.doi.org/10.11646/phytotaxa.338.1.7>
- Saunders, G.W., K. L. Wadland, E. D. Salomaki, and **C. E. Lane** **2017**. A contaminant DNA barcode sequence reveals a new red algal order, Corynodactylales (Nemaliophycidae, Florideophyceae) *Canadian Journal of Botany* 95: 561–566.
- Griffith, M.K., C.W. Schneider, D.I. Wolf, G.W. Saunders & **C.E. Lane** **2017**. Genetic barcoding resolves the historically known *Champia parvula* from southern New England, USA, as *C. farlowii* sp. nov. (Champiaceae, Rhodymeniales). *Phytotaxa* 302(1): 77–89.
- Freese, J. M., **C. E. Lane** **2017**. Parasitism finds many solutions to the same problems in red algae (Florideophyceae, Rhodophyta) *Molecular and Biochemical Parasitology*. 214: 105–111.
- Schneider, C.W., P. K. Quach & **C.E. Lane** **2017** A case for true morphological crypsis: Pacific *Dasya anastomosans* and Atlantic *D. cryptica* sp. nov. (Dasyaceae, Rhodophyta) *Phycologia*. 56: 359–368.
- Jackson, C., E. D. Salomaki, **C. E. Lane**, & Gary W. Saunders **2017**. Kelp transcriptomes provide robust support for interfamilial relationships and revision of the little known Arthrothamnaceae (Laminariales). *Journal of Phycology*. 53: 1-6.
- Salomaki, E. D. & **C. E. Lane** **2016**. Red Algal Mitochondrial Genomes are More Complete than Previously Reported. *Genome Biology & Evolution*. 9 (1): 48-63.
- Schneider, C.W., T.R. Popolizio, D.S. Spagnuolo & **C.E. Lane** **2016**. Notes on the marine algae of the Bermudas. 15. *Dichotomaria huismanii* (Galaxauraceae, Rhodophyta), a new species in the *D. marginata* complex from the western Atlantic. *Botanica Marina* 59: 13–29.
- McDowell, I.C., T.H. Modak, **C. E. Lane**, M. Gomez-Chiarri **2016**. Multi-species protein similarity clustering reveals novel expanded immune gene families in the eastern oyster *Crassostrea virginica*. *Fish and Shellfish Immunology*. 53: 13-23.
- Blouin, N. A., & **C. E. Lane** **2016**. Red algae provide fertile ground for exploring parasite evolution. *Perspectives in Phycology* 3(1): 11 - 19
- Dixon, K.R., G.W. Saunders, C.W. Schneider & **C.E. Lane** **2015**. Etheliaceae fam. nov. (Gigartinales, Rhodophyta), with a clarification of the generitype of *Ethelia* and the addition of six novel species from warm waters. *Journal of Phycology* 51:1158-1171.
- Schultz, N.E., **C.E. Lane**, L. Le Gall, D. Gey, A.R. Bigney, B. de Reviers, F. Rousseau & C.W. Schneider **2015**. A barcode analysis of the genus *Lobophora* (Dictyotales, Phaeophyceae) in the western Atlantic Ocean with four novel species and the epitypification of the generitype *L. variegata* (J.V. Laomouroux) E.C. Oliveira. *European Journal of Phycology* 50:481-500
- Popolizio, T.R., C.W. Schneider & **C.E. Lane** **2015**. A molecular evaluation of the *Liagoraceae sensu lato* (Nemaliales, Rhodophyta) in Bermuda including *Liagora nesophila* sp. nov. and *Yamadaella grassyi* sp. nov. *Journal of Phycology* 51: 637-658
- Schneider, C.W., E.N. Cianciola, T.R. Popolizio, D.S. Spagnuolo & **C.E. Lane** **2015**. A

- molecular-assisted alpha taxonomic study of the genus *Centroceras* (Ceramiaceae, Rhodophyta) in Bermuda reveals two novel species. *Algae* 30: 15-33
- Salomaki, E. D., K. R. Nickles & C. E. Lane 2015. The ghost plastid of *Choreocolax polysiphoniae*. *Journal of Phycology*. 51:217-221.
- Misner, I., N. Blouin, G. Leonard, T. Richards, & **C. E. Lane** 2015. The secreted proteins of *Achlya hypogyna* and *Thraustotheca clavata* identify the ancestral oomycete secretome and reveal gene acquisitions by horizontal gene transfer. *Genome Biology and Evolution*. 7:120-135.
- Salomaki, E. D., C. E. Lane 2014. Are all red algal parasites cut from the same cloth? *Acta Societatis Botanicorum Poloniae*. 4:369-375.
- McDowell, I. C., C. Nikapitiya, D. Aguiar, **C. E. Lane**, S. Istrail, M. Gomez-Chiarri 2014. Transcriptome of American oysters, *Crassostrea virginica*, in response to bacterial challenge: Insights into potential mechanisms of disease resistance. *PLoS ONE* 10:1371.
- Pombert J.F., N.A. Blouin, **C. E. Lane**, D. Boucias & P.J. Keeling 2014. A Lack of Parasitic Reduction in the Obligate Parasitic Green Alga *Helicosporidium*. *PLoS Genetics* 10(5): e1004355
- Schneider, C.W., T.R. Popolizio & **C. E. Lane** 2014. Notes on the marine algae of the Bermudas. 14. Five additions to the benthic flora, including a distinctive second new species of *Crassitegula* (Rhodophyta, Sebdeniales) from the western Atlantic Ocean. *Phycologia* 53: 117-126.
- Schneider, C. W., G. W. Saunders, **C. E. Lane** 2014. The monospecific genus *Meredithia* (Kallymeniaceae, Gigartinales) is species-rich and geographically widespread with species from temperate Atlantic, Pacific and Indian oceans. *Journal of Phycology*. 50:167-186.
- 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*. 61:146-154.
- 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. Baptiste & **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. Oborník, 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. lili* 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, PREPRINTS, COMMENTARIES AND CHAPTERS

- Paight, C., L. Hunter, C. E. Lane **2020**. Codependence in the *Nephromyces* species swarm depends on heterospecific bacterial endosymbionts. *BioRxiv* (Preprint). <https://doi.org/10.1101/2020.10.18.344572>
- Lane, C. E.** **2017**. Biodiversity: More surprises from the smallest marine eukaryotes. *Current Biology*.
- O'Brien, M. & **C. E. Lane** **2014** Mitochondrial Genomes of Chromists (Stramenopiles, Haptophytes, and Cryptophytes). *Molecular Life Sciences: An Encyclopedic Reference*. Springer New York. pp 1-6.
- 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.

ACADEMIC HONORS

University of Rhode Island Advanced Career Faculty Research & Scholarship Excellence Award 2020

College of the Environment and Life Sciences Research Excellence Award	2019
Governor General's Gold Medal, University of New Brunswick Awarded for the best thesis at the university during the previous year.	2005
J. Wendell Burger Prize in Biology; Trinity College, Awarded to the graduating student biology major who, in the opinion of the faculty, has demonstrated the greatest promise for a career in biology.	1999

TEACHING EXPERIENCE

BIO272 (4cr) Introductory Evolution, F23
 BIO308 (3cr) The Invisible Living Ocean S15-S21
 BIO310 (2cr) Bermuda Marine Diversity S15-S19
 BIO501 (1cr) Advanced Scientific Communication – Fall 2011 - Present
 BIO500 (2cr) Advanced Scientific Ethics – Fall 2011 – F21
 BIO130 (1cr) Topics in Marine Biology – F12, F13
 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, S13
 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

POST-GRADUATE TRAINEES (YEARS IN THE LAB)

Lily Hancock (2008-2010) M.S.
 Ian Misner (2009-2012) Ph.D.
 Nic Blouin (2010-2012, 2013-2015) Post Doc
 Thea Popolizio (2010-2015) Ph.D.
 Alyssa Rogers (2011-2012) Technician
 Megan O'Brien (2011-2012) M.S.
 Eric Salomaki (2011-2016) Ph.D.
 Katelyn Wadland (2014-2016) M.S.
 Jillian Freese (2014-2019) Ph.D.
 Chris Paight (2014-2018) Ph.D.
 Kristina Terpis (2016-present) Lab Manager
 Liz Hunter (2018-2020) M.S.
 Daniela Lopes Paim Pinto (2016-2020) Post Doc
 Erin Borbee (2017-2021) Ph.D.
 Evelyn Spencer (2019-2022) M.S.
 Elaine Shen (2018-Present) Ph.D.
 Marissa Mehlrose (2022-present) Ph.D.
 Gabbie Kuba (2022-present) Ph.D.

UNDERGRADUATE TRAINEES (AT LEAST 6 MONTHS IN THE LAB)

Danny Wolf
Tom Shamp
Taylor Clement
Randy Vinas
Megan O'Brien
Jurennny Jimenez
Amy Boisvert
Liz Sullivan
Liz Hunter
Evelyn Spencer
Ally Merrill

MANUSCRIPT REVIEWS (JOURNALS ONLY)

Aquatic Botany, Acta Phytotaxonomica Sinica, BMC Evolutionary Biology, BMC Plant Biology, Botanica Marina, 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-Present), Journal of Bacteriology, Mammalian Genome, Marine Biology, Molecular Biology and Evolution, Molecular Phylogenetics and Evolution, New Phytologist, Phycologia, Phycological Research, PLoSOne, Proceedings of the National Academy of Science, USA, Proceedings of the Royal Society, B, Protist, Science, Scientific Reports. Trends in Ecology and Evolution

GRANT REVIEWS

European Research Council, *ad hoc* reviewer for Evolutionary, Population, and Environmental Biology Panel (2017, 2018)
Wellcome Trust, Sir Henry Dale Fellowship, *ad hoc* reviewer (2017)
National Institute of Health, AREA *ad hoc* reviewer for Genes, Genomes and Genetics (GGG) (2015), Genome Variation and Evolution Panel reviewer (2018).
National Science Foundation, **DEB** – Systematic Biology & Biodiversity Inventories, Panel reviewer (2010, 2015), *ad hoc* reviewer (2008, 2011, 2017, 2023), Preproposal panel reviewer (2012). Dimensions of Biodiversity *ad hoc* 2017. **IOS** – EDGE program *ad hoc* reviewer (2016) Symbiosis and Self Defense Preproposal panel reviewer (2013, 2015), *ad hoc* reviewer (2013, 2018).
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)

Departmental Seminar, U Paris, Sud, 2023
Departmental Seminar, Purdue University, 2023
“The Tree of Life in Bloom” Stockholm, Sweden, 2022

Phycological Society of America Annual Meeting, Virtual, 2021
 “President’s Address” International Society of Protistology Annual Meeting, Virtual, 2021
 “Path Forward for Naming the Uncultivated” Workshop, Virtual, 2021
 “Online Resources for the International Protist Community” workshop (Organizer, Virtual) 2020.
 “Microbial Systematics for the Next Decade” Workshop, Walnut Creek, Ca, 2019
 “Modernizing Monography Workshop”, New York, NY, 2018
 “Microbial Systematics for the Next Decade” Workshop, Hood River, Oregon, 2018
 “Host-Associated Microbial Communities and their Evolution” PSA-ISOP joint meeting, Vancouver, BC, Canada, 2018
 “Comparative genomics of eukaryotic microbes: Dissecting sources of evolutionary diversity” EMBO Conference, Spain, 2017
 “Frontiers in Phylogenetics” Smithsonian Institute, Washington D.C. 2016
 “Extremophile Biology” Session, SICB, Portland, Or. 2016
 “Exploring the Genomic Complexity and Diversity of Eukaryotes” EMBO Conference, Spain, 2015
 Sixth European Phycological Congress. London, UK. 2015. (N. Blouin - Speaker)
 University of New Brunswick, 2015
 Society of Developmental Biology, Snowbird, Utah, 2015
 International Society of Evolutionary Protistology, Banff Ab, Canada. 2014
 Smith College, North Hampton Ma. 2013
 Wellcome Trust, Hinxton, UK 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)

- Freese, J., Lane, C.E. 2017. International Congress of Protistology, Prague, Czech Republic
- Paight, C., Saffo, M.B., Lane, C.E. 2017. International Congress of Protistology, Prague, Czech Republic
- Salomaki, E.D., Lane, C.E. 2017. International Congress of Protistology, Prague, Czech Republic
- Freese, J., Blouin, N., Lane, C.E. 2017. Northeast Algal Symposium. Jefferson, NH
- Paight, C., Lane, C.E. 2017. Northeast Algal Symposium. Jefferson, NH
- Salomaki, E.D., Lane, C.E. 2017. Northeast Algal Symposium. Jefferson, NH
- Salomaki, E.D., Lane, C.E. 2016. Annual Meeting of the Phycological Society of America. Cleveland, OH, USA. July 24-28.
- Salomaki, E.D., Lane, C.E. 2016. Protist 2016. Moscow, Russia. June 6-10.
- Paight, C., Muñoz-Gómez, S., Saffo, M., Slamovits, C., and C. Lane. International Society of Protistologists, Moscow RU, 2016
- Salomaki, E.D., Lane, C.E. 2016. Westfield, MA. USA. April 22-24.
- Paight, C., Muñoz-Gómez, S., Saffo, M., Slamovits, C., and C. Lane. Northeast Algal Symposium, Westfield MA, 2016
- Blouin, N.A., Salomaki, E.D., Lane, C.E. 2016. Portland, OR. USA. Jan. 3-7.
- Salomaki, E.D., Lane, C.E. 2015. Annual Meeting of the Phycological Society of America. Philadelphia, PA. USA. Aug. 8-13.
- Paight, C., C. Lane. EuPathDB Workshop, Athens GA, 2015
- Salomaki, E., Nickles, K., and C. Lane. Northeast Algal Symposium, Syracuse NY, 2015
- Salomaki, E., C. Lane. EukRef Workshop, Vancouver BC Canada, 2015
- Salomaki, E., Nickles, K., and C. Lane. Phycological Society of America Annual Meeting, Philadelphia PA, 2015
- Lane, C. International Society of Evolutionary Protistology, Banff, AB, 2014
- Blouin, N., C. Lane. Northeast Algal Symposium, Newport RI, 2014
- Salomaki, E., C. Lane. Northeast Algal Symposium, Newport RI, 2014
- Popolizio, T., C. Schneider, C. Lane. Northeast Algal Symposium, Newport RI, 2014
- 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
- Blouin, 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 Popolizio, 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 Popolizio, 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 *Hemiselmis 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 *Hemiselmis*. 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 *Hemiselmis 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, Phaophyceae) 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

International Society of Protistology
 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

Chair, Department of Biological Sciences (July 2022 – present)
Biological Sciences Departmental Colloquium Coordinator (Fall 2008 – Fall 2012)
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

Interim CELS Associate Dean of Research (07/20-09/20; 1 month, 2021, 2022)
Chair, Diving Control Board (2019-present)
BES Colloquium Coordinator (2016-2019)
Diving Control Board Member (2015-Present)
EMB (formerly IEB) Grad Specialization Coordinator (2014-Present)
Space Committee (2014-2017)
Coral Biologist Hiring Committee (2016)
Bioinformatics Cluster Hiring Committee (2015)
Bylaws Committee (2013-2016)
Dean's Advisory Committee (Spring 2011-2015)
Marine Bioinformatics faculty search committee – CMB Department (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 brought roughly \$20M to Rhode Island in support and infrastructure over 5 years. In 2016 I contributed to the writing of the EPSCoR renewal, which has been funded.

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

Journal of Phycology – Co-Editor	2022-2027
International Society of Protistology – President, Past President	2017-2021
Journal of Phycology – Associate Editor (genomics)	2012-present
Journal of Phycology – Editorial Board	2009-2014, 2017-2022
Phycological Society of America – Secretary	2014-2017
International Society of Protistology – Vice President	2014-2015
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