CURRICULUM VITAE

Matthew D Johnson

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Woods Hole, MA 02543

RESEARCH INTERESTS

My research focuses on the biology, ecology, and evolution of marine protists, with an emphasis on mixotrophy. I am particularly interested in acquired phototrophy, the process by which organisms host endosymbionts or steal their plastids.

PROFESSIONAL PREPARATION

B.S., Marine Biology, Southampton College, University of Long Island, 1996 Ph.D., Biological Oceanography, University of Maryland (UMCES), 2005

APPOINTMENTS

Associate with Tenure, WHOI 2017-present

Associate Scientist without Tenure, WHOI, 2013-2017

Assistant Scientist, WHOI, 2009-2013

Adjunct Professor, Rider University, 2007-2008

Postdoctoral Fellow, Rutgers University (IMCS), 2006-2009

Postdoctoral Associate, UMCES, 2005

Visiting Lecturer, Washington College, 2001

Research Assistant, University of Oregon (OIMB), 1997-1998

HONORS AND AWARDS

Phycological Society of America, Luigi Provasoli Award, 2007 Rutgers, Institute of Marine and Coastal Sciences Post-Doctoral Fellow 2006-2009 Outstanding Poster Award, Society of Protozoologists (SOP), 2004

PROFESSIONAL AFFILIATIONS

American Society of Limnology and Oceanography Phycological Society of America

International Society of Protistologists

PROFESSIONAL ACTIVITES AT WHOI

Biology Postdoctoral Mentoring Committee (2018-present)

Biology search committee for Microbial Ecology and HAB Scientist (2017)

Biology space committee (2016-2018)

Biology hiring committee (2016-2018)

Biology search committee for Phytoplankton Ecologist (2016)

Institutional Strategic Facilities committee (2015-present)

Ocean Life Institute Proposal Review Panel (2015)

Biology search committee for Phytoplankton Ecologist and Microbial Ecologist (2015)

Biology search committee for Cyanobacterial Scientist (2011)

Biology Technical Staff Evaluation committee (2011-2012)

Biology Seminar coordinator (2010-2011)

LEADERSHIP AND NATIONAL SERVICE

Session Chair

Ocean Sciences Meeting, New Orleans, US (Feb 2016): (1) Protistan mixotrophic: Jacks of All Trades or Masters of none? (2) All Microorganisms must Die: Mechanisms of Mortality in the Planktonic Environment

Aquatic Science Meeting, Granada, ES (Feb 2015): Infochemical Controls on Biogeochemical Processes in Aquatic and Marine Ecosystems

Aquatic Sciences Meeting, San Juan, PR (Feb 2011): Interactions between Aquatic Microbial Eukaryotes: Intracellular to Community Processes

Invited Workshops and Working groups

Ocean Carbon and Biogeochemistry, *Mixotrophy and Mixotrophs* Working Group, virtual meetings (2021-present)

Micro Eukaryotes, Virtual working group to make new connections and collaborations among US protistologists and to find funding opportunities for the community (2021)

Leverhulme International Network meeting on "*Modeling mixotrophy*", UMCES, Cambridge, MD, 6/17-6/21, 2013

Mixotrophy in planktonic protists- methods to assess nutritional strategies", Tvärminne

Zoological Station, FI; 9/4-9/11, 2005

National Science Foundation (NSF)

NSF Integrative Organismal Systems (IOS) Panelist (2015)

Ad hoc NSF proposal reviewer (2007-present) for Biological Oceanography, IOS, Polar Programs, Dimensions of Biodiversity, Major Research Instrumentation

Ad Hoc Journal Reviewer

Aquatic Microbial Ecology, Bioessays, Environmental Microbiology, Frontiers in Marine Biology, Frontiers in Microbiology, Harmful Algae, Biological Bulletin, ICES J of Marine Science, ISME J, J of Eukaryotic Microbiology, J of Experimental Biology, J of Plankton Research, J of Phycology, Limnology and Oceanography, Marine Biology, Marine Biology Research, Marine Ecology Progress Series, Molecular Biology and Evolution, New Phytologist, Photosynthesis Research, Plant Cell, Plant Cell & Environment, Plos One, Proceedings of the Royal Society B, PNAS, Protist, Scientific Reports

Guest Editor

Edited the *Frontiers in Marine Science* Special Topic "Mixotrophy in Protists: from Model systems to Mathematical Models" (2018)

PARTICIPATION IN WHOI-MIT JOINT PROGRAM (JP) AND MIT PROGRAMS

JP Advisor for Max Jahns (MC&G) (2021-present)

JP Committee Member of: Alexis Fischer (2013-2017), Emily F. Brownlee (2010-2018), Bethany Fowler (2020-present), Zoe Aarons (2022-present)

Dissertation Defense Chair for JP Students Jamie Becker (4/8/13), Bethanie Edwards (1/5/16), Kathleen Pitz (8/2/16)

MIT Microbiology Program Committee Member of: Alison F. Takemura (2015)

General Exam Chair for JP BIO students Harriet Alexander (2012), Taylor Sehein (2018), and Arianna Krinos (2021)

Provided questions for General Exam and served on Oral Exam committee, 2011 (Biology), 2021 (MC&G)

JP Admissions Committee, 2010-2013

PARTICIPATION IN OTHER GRADUATE PROGRAMS

- Committee Member for Ph.D. student Ludivine Sanchez Arias, University of Utah, 1/1/22-present
- External Examiner for the Ph.D. Thesis of Anna-Adriana Aschütz, Université Libre de Bruxelles, Remote defense, June 28, 2021
- External Examiner for the Ph.D. Thesis of Fareda Tasneem, University of Punjab, Lahore, PK, September 2018
- External Committee Member for the Ph.D. Defense of Lydia Garcia, University of Copenhagen, DK, September 30, 2011

SUPERVISION AT WHOI

SOLEK ISION III WHOL				
2022	Ludivine Sanchez Arias, Guest Doctoral Student (Utah)			
2010-2018	Dr. David Beaudoin, Research Assistant II			
2015-2016	Dr. Holly V. Moeller, NSF Postdoctoral Fellow			
2015-2016	Dr. Stefan Thiele, Guest Investigator			
2015	Dr. Elina Peltomaa, Guest Investigator			
2013-2015	Dr. Elizabeth Harvey, Postdoctoral Investigator			
2011	Dr. Miguel Frada, Guest Investigator			

UNDERGRADUATE AND HIGH SCHOOL RESEARCH MENTORING:

2019	Lila Szweda, WHOI SAW student
2018	Tatiana Chinitz, Summer Guest Student
2016	Zoe (Zhaohua) Chunyu, Falmouth Academy
2015	Christopher Kirby, NEU Cooperative Program
2015	Sophie Auduong, Bourne High School; High School Science Fair Project ($1^{\rm st}$
	Place at 2015 Massachusetts Science and Engineering Fair)
2014	Sintra Reves-Sohn, Falmouth Academy
2014	Elaine Luo, Summer Guest Student
2011	Maria Bangal, WHOI Summer Fellow
2010	Eleina Zaitsev, WHOI Summer Fellow
2007	Rong Deng, Intel Science Talent Search, White Plains High School, NY
2006-2008	Holly V. Moller, Henry Rutgers Fellow, Rutgers University

2006-2007	Jay Fisch.	Rutgers	University
		11000	

Carrie Fleming, REU, Horn Point Lab, UMCES
 Michelle Rome, REU, Horn Point Lab, UMCES

TEACHING EXPERIENCE

2019-2021 MIT/WHOI JP: Biological Oceanography (7.470)

2008 Rider University, Lawrenceville, NJ

Department of Biology: Life Science: eco-botanical emphasis

2007 Rider University, Lawrenceville, NJ

Department of Geology and Marine Science: Introduction to Oceanography

Washington College, MD, Department of Biology: Genes, Nature and Society

laboratory section

PARTICIPATION ON CRUISES

"Dyeatom" Cruise, California Coast, USA, R/V Pt. Sur, June 27-July 6, 2013 Chesapeake Bay, USA, R/V Sharp, October 16-21, 2011; Chief Scientist Chesapeake Bay, USA, R/V Sharp, May 4-9, 2011; organized scientific activities

PUBLICATIONS (*mentored postdocs, graduate or undergraduate students)

- Millette N, Gast R, Luo JY, Moeller HV, Stamieszkin K, Andersen K, Brownlee EF, Cohen N, Duhamel S, Dutkiewicz S, Glibert PM, Johnson MD, Leles SG, Maloney AE, McManus G, Poulton N, Princiotta SD, Sanders R, Wilken S (accepted) Mixotrophs and Mixotrophy: Future Research Priorities. L&O Letters
- Johnson MD, Moeller, HV, Paight C, Kellogg RM, McIlvin MR, Saito MA, Lasek-Nesselquist E (2023) Functional control and metabolic integration of stolen organelles in a photosynthetic ciliate. Current Biology 33: 973-980. e5
- 3. Paight C, **Johnson MD**, Lasek-Nesselquist E, Moeller HV (2022) Cascading effects of prey identity on gene expression in a kleptoplastidic ciliate. J Euk Microbiol. 70: e12940
- 4. Jiang H and **Johnson MD** (2021) Swimming behavior of cryptophyte prey affects prey preference of the ambush-feeding ciliate *Mesodinium rubrum*. Aquatic Microbial Ecology. *In Press*

- 5. Moeller HV, Hsu V, Lepori-Bui M, Mesrop LY, Chinn C, **Johnson MD** (2021) Prey type constrains growth and photosynthetic capacity of the kleptoplastidic ciliate *Mesodinium chamaeleon* (Ciliophora). Journal of Phycology. doi: 10.1111/jpy.13131
- Mayers KM, Poulton AJ, Bidle K, Thamatrakoln K, Schieler B, Giering SLC, Wells SR, Tarran GA, Mayor DJ, Johnson MD, Riebesell U, Larsen A, Vardi A, Havey E (2020) Coccolithophore calcification fails to deter microzooplankton grazers. Frontiers in Marine Science 7: 1-12. doi: 10.3389/fmars.2020.569896
- Johnson MD, Edwards B, Beaudoin DJ, Van Mooy B, Vardi A (2020) Nitric oxide mediates oxylipin production and grazing defense in diatoms.
 Environmental Microbiology 22(2): 629-645 doi.org/10.1111/1462-2920.14879
- 8. Lasek-Nesselquist E and **Johnson MD** (2019) A phylogenomic approach to clarifying the relationship of *Mesodinium* within the Ciliophora: a case study in the complexity of mixed-species transcriptomic analyses. Genome Biology and Evolution. doi.org/10.1093/gbe/evz233
- Moeller, HV, Neubert MG, Johnson MD (2019) Intraguild predation enables coexistence of competing phytoplankton in a well-mixed water column. *Ecology*, 100(12), e02874.
- 10. Moeller HV, Laufkötter, C, Sweeney, EM, & **Johnson, MD** (2019). Light-dependent grazing can drive formation and deepening of deep chlorophyll maxima. Nature communications, 10(1), 1978.
- 11. **Johnson MD** and Beaudoin DJ (2019) The genetic diversity of plastids associated with mixotrophic oligotrich ciliates. Limnol Oceanogr. doi: 10.1002/lno.11178
- 12. **Johnson MD** and Moeller HV (2018) Editorial: Mixotrophy in protists: from model systems to mathematical models. Frontiers Mar Sci. doi: 10.3389/fmars.2018.00490
- Johnson MD, Beaudoin DJ, Frada MJ, Brownlee EF, Stoecker DK. (2018) High grazing rates on cryptophyte algae in Chesapeake Bay. Frontiers Mar Sci. doi.org/10.3389/fmars.2018.00241
- 14. Peltomaa E, **Johnson MD**, Taipale SJ. (2018) Marine cryptophytes are great sources of EPA and DHA. Marine drugs 16(1):3
- 15. Moeller* HV and **Johnson MD** (2017) Preferential plastid retention by the acquired phototroph *Mesodinium chamaeleon*. J Euk Microbiol. 65(2):148-158. doi: 10.1111/jeu.12446

- 16. Leles SG, Mitra A, Flynn KJ, Stoecker DK, Hansen PJ, Calbert A, McManus GB, Sanders RW, Caron DA, Not F, Hallegraff GM, Pitta P, Raven JA, Johnson MD, Glibert P, Våge S (2017) Ocean protists with different forms of acquired phototrophy display diverse biogeographies and abundance. Proc Roy Soc B. 284(1860). doi: 10.1098/rspb.2017.0664
- 17. **Johnson MD**, Lasek-Nesselquist E, Moeller* HV, Altenburger A, Lindholm N, Kim M, Drumm K, Moestrup Ø, Hansen PJ (2017) *Mesodinium rubrum*: the symbiosis that wasn't. Proc Nat Acad Sci (USA) (letter). 114(7): E1040–E1042. doi.1073/pnas.1619247114
- 18. Peltomaa* E and **Johnson MD** (2017) *Mesodinium rubrum* exhibits genus but not species level cryptophyte prey selection. Aquatic Microbial Ecology. 78: 147-159. doi: 10.3354/ame01809
- 19. Johnson MD, Beaudoin, DJ, Laza-Martinez A, Dyhrman S, Fensin E, Lin S, Merculief A, Nagai S, Pompeu M, Setälä O, Stoecker DK (2016) The genetic diversity of *Mesodinium* and associated cryptophytes. Frontiers Microbiol. 7. doi: 10.3389/fmicb.2016.02017
- 20. Jiang H and **Johnson MD** (2016) Jumping and overcoming diffusion limitation of nutrient uptake in the photosynthetic ciliate *Mesodinium rubrum*. Limnol Oceanogr. doi:10.1002/lno.10432
- 21. Mitra A, Flynn KJ, Tillmann U, Raven JA, et al (19 others) (2016) Defining planktonic protist functional groups on mechanisms for energy and nutrient acquisition: incorporation of diverse mixotrophic strategies. Protist. 167(2): 106-120
- 22. Harvey* E, Deering RW, Rowley DC, El Gamal A, Schorn M, Moore BS, **Johnson MD**, Mincer TJ, Whalen KE (2016) A bacterial quorum-sensing precursor induces mortality in the marine coccolithophore, *Emiliania huxleyi*. Front Microbiol. 7
- 23. Moeller* HV, Peltomaa E, **Johnson MD**, Neubert M (2016) Acquired phototrophy stabilizes coexistence and shapes intrinsic dynamics of an intraguild predator and its prey. Ecol Lett. 19(4): 393-402 doi: 10.1111/ele.12572
- 24. Poulson-Ellestad KL, Harvey* EL, **Johnson MD**, Mincer TJ (2016) Evidence for Strain-Specific Exometabolomic Responses of the Coccolithophore *Emiliania huxleyi* to Grazing by the Dinoflagellate *Oxyrrhis marina*. Front Mar Sci. 3: 1

- 25. Lasek-Nesselquist E, Wisecaver JH, Hackett JD & Johnson MD (2015) Insights into transcriptional changes that accompany organelle sequestration from the stolen nucleus of *Mesodinium rubrum*. BMC Genomics. 16:806
- 26. Harvey* EL, Bidle KD, **Johnson MD** (2015) Consequences of strain variability and calcification in *Emiliania huxleyi* on microzooplankton grazing. J Plank Res. 37(6): 1137-1148
- 27. Dunthorn M, Lipps JH, Dolan J, Saab MAA, Aescht E, et al. (2015) Ciliate Protists with complex morphologies and ambiguous early fossil records. Mar Micropal. 119: 1-6
- 28. **Johnson MD** (2015) Inducible mixotrophy in the dinoflagellate *Prorocentrum minimum*. J Euk Microbiol. 62(4): 431-443
- 29. Keeling, PJ, Burki F, Wilcox HM, Allam B, Allen EE, et al. (2014) The marine microbial eukaryotic transcriptome sequencing project (MMETSP): illuminating the functional diversity of eukaryotic life in the oceans through transcriptome sequencing. PLOS Biology. 12(6): e1001889. doi:10.1371/journal.pbio.1001889
- 30. **Johnson MD**, Stoecker DK, Marshall, HG (2013) Seasonal dynamics of *Mesodinium rubrum* in Chesapeake Bay. J Plank Res. 35: 877-893
- 31. Hansen PJ, Nielson LT, **Johnson MD**, Berge T, Flynn KR (2013) Acquired phototrophy in *Mesodinium* and *Dinophysis* a review of cellular organization, prey selectivity, nutrient uptake and bioenergetics. Harmful Algae. 28: 126
- 32. **Johnson MD**, Stoecker DK, Marshall, HG (2013) Seasonal dynamics of *Mesodinium* rubrum in Chesapeake Bay. J Plank Res. 35: 877-893
- 33. **Johnson MD** (2011) Acquired phototrophy in ciliates: a review of cellular interactions and structural adaptations. J Euk Microb 58(3): 185-195
- 34. Moeller*, HV, **Johnson MD**, Falkowski, PG (2011) Photoacclimation in the phototrophic marine ciliate, *Mesodinium rubrum* (Ciliophora). J Phycol 47(2): 324-332
- 35. **Johnson MD** (2011) The acquisition of phototrophy: adaptive strategies of hosting endosymbionts and organelles. Photosynth Res 107: 117-132
- 36. Stoecker DK, **Johnson MD**, de Vargas C, Not, F (2009) Acquired phototrophy in aquatic protists. Aquat Microb Ecol. 57: 279-310

- 37. **Johnson MD**, Volker J, Moeller HV, Laws E, Breslauer KJ, Falkowski PG (2009) Universal constant for heat production in protists. Proc Nat Acad Sci (USA) 106: 6696-6699
- 38. **Johnson MD**, Oldach D, Delwiche CF, Stoecker DK, (2007) Retention of transcriptionally active cryptophyte nuclei by the ciliate *Myrionecta rubra*. Nature 445: 426-428 [Faculty of 1000, Biology; "Must read paper"]
- 39. **Johnson MD**, Stoecker DK, Tengs T, Oldach D (2006) Sequestration and performance of cryptophyte plastids in *Myrionecta rubra*. J Phycol 42: 1236-1246 [won PSA Provasoli Award in 2007]
- 40. **Johnson MD**, Stoecker DK (2005) The role of feeding in growth and the photophysiology of *Myrionecta rubra*. Aquat Microb Ecol. 39: 303-312
- 41. **Johnson MD**, Tengs T, Oldach D, Stoecker DK (2004) Highly divergent SSU rRNA genes found in the marine ciliates *Myrionecta rubra* and *Mesodinium pulex*. Protist 155: 347-359
- 42. **Johnson MD**, Rome* M, Stoecker DK (2003) Microzooplankton grazing on *Prorocentrum minimum* and *Karlodinium micrum* in Chesapeake Bay. Limnol Oceanogr 48: 238-248
- 43. Gustafson Jr DE, Stoecker DK, **Johnson MD**, Van Heukelem WF, Sneider K (2000) Cryptophyte algae are robbed of their organelles by the marine ciliate *Mesodinium* rubrum. Nature 405: 1049-1052
- 44. MacDougal KC, **Johnson MD**, Burnett KG (1996) Exposure to mercury alters early activation events in fish leukocytes. Environ Health Persp 104: 1102-1106

INVITED PRESENTATIONS

- 1. **Johnson, MD** (2021) Molecular tools for *Teleaulax-Mesodinium-Dinophysis* complex. International Conference on Mixoplankton. Virtual Meeting. Hosted by Cardiff University, Cardiff, Wales
- Johnson, MD (2018) Mesodinium rubrum: a model system for understanding mixotrophy and emergent plastid acquisitions in protists. Oregon Institute of Marine Biology, Charleston, OR
- 3. **Johnson MD** (2016) Trophic takeovers: mergers and acquisitions in the plankton. University of Massachusetts, Dartmouth, MA

- 4. **Johnson MD** (2016) Cellular, evolutionary, and ecological perspectives on acquired phototrophy. EMBO/EMBL Symposium "A New Age of Discovery for Aquatic Microeukaryotes". EMBL, ATC, Heidelberg, DE
- 5. **Johnson MD** (2016) Predators in the plankton and the menagerie of marine microbial eukaryotes. MIT, EAPS IAP Lecture Series. Cambridge, MA.
- Johnson MD (2015) Chemical signaling and grazer defense in phytoplankton. MIT, Microbial Systems Seminar Series. Cambridge, MA
- 7. **Johnson MD**, Stoecker DK, Beaudoin D (2013) An integrative view of a model mixotroph: cellular, ecological and evolutionary perspectives. Modeling Mixotrophy (Leverhulme Workshop). UMCES, Cambridge, MD
- 8. **Johnson MD** (2011) Acquired phototrophy and the unique phytoplankter *Mesodinium rubrum*. UCONN Avery Point, CT
- 9. **Johnson MD**, Moeller HV, Bangal* M, Brown C (2011) Karyoklepty and the reduced endosymbiont of *Mesodinium rubrum* a tertiary plastid in the making? European Congress of Protistology, Berlin, DE
- Johnson MD (2010) Genetic diversity and heat stress phenotypes in *Symbiodinium*.
 URI-GSO, Narragansett, RI
- 11. **Johnson MD** (2010) Genetic diversity and heat stress phenotypes in *Symbiodinium*. MBL, Woods Hole, MA
- 12. **Johnson MD** (2010) Acquired phototrophy in ciliates. International Society of Protistologists, Canterbury, UK
- 13. **Johnson MD** (2008) Genetic diversity and heat stress in *Symbiodinium*. Lamont-Doherty Earth Observatory, Palisades, NY
- 14. **Johnson MD** (2008) Physiological and molecular approaches to understanding protistan ecology and evolution. Boston University, Boston, MA
- 15. Johnson MD (2008) Physiological and molecular approaches to understanding protistan ecology and evolution. University of New Brunswick, Fredericton, New Brunswick
- 16. **Johnson MD** (2007) Organelle-retention in the photosynthetic ciliate, *Myrionecta rubra*. Phycological Society of America, Providence, RI; *Seminar was for receiving the Luigi Provasoli Award*
- 17. **Johnson MD** (2007) Robbery on the high seas: the story of the photosynthetic ciliate *Myrionecta rubra*. Rider University, Lawrenceville, NJ.

18. **Johnson MD** (2007) Physiological and molecular aspects of organelle retention in the ciliate *Myrionecta rubra*. Roger Williams College, Bristol, RI, Biology Seminar Series

PRESENTATIONS AT MEETINGS AND PUBLISHED ABSTRACTS

(*Mentored postdocs, graduate or undergraduate students)

- 1. Johnson MD, Brownlee EL, Moeller HV, Beaudoin DJ, Berounsky V, Sosik H, Stoecker DK (2022) Environmental drivers of community diversity of *Mesodinium* ciliates in temperate coastal ecosystems. Ocean Sciences Meeting, Virtual
- 2. Edwards BR, Van Mooy B, Bidle K, **Johnson M**, Thamatrokoln K, Branzler C (2021) Integrated meta-omic analysis links chemical signaling to diatom bloom decline and viral infection. Goldschmidt, Lyon, FR
- **3. Johnson MD** (2018) Phosphorous limitation, induction of mixotrophy, and cellular recovery through predation in a mixotrophic dinoflagellate. Ocean Sciences (poster), Portland, OR
- **4. Johnson MD** and Beaudoin DJ (2016) Molecular characterization of acquired phototrophs and their plastids in marine communities. Ocean Sciences (poster), New Orleans, LA
- **5.** Harvey* E, Bidle KD, **Johnson MD** (2016) Mingled mortality: the interplay between protist grazing and viral lysis on *Emiliania huxleyi* cell fate. Ocean Sciences (poster), New Orleans, LA
- 6. Whalen KE, Deering RW, Rowley DC, El Gamal A, Schorn M, Moore BS, Johnson MD, Mincer TJ, Harvey* E. (2016) Bacterial infochemicals are drivers of algal lysis. Ocean Sciences (poster), New Orleans, LA
- 7. Beaudoin D, Tirichine L, Rastogi A, Bowler C, **Johnson MD** (2016) The role of cell morphotype in protist grazing ion the model diatom *Phaeodactylum tricornutum*. Ocean Sciences (poster), New Orleans, LA
- **8.** Moeller* HV, Peltomaa E, **Johnson MD**, Neubert MG (2016) Acquired phototrophy stabilizes coexistence and shapes intrinsic dynamics in planktonic communities. Ocean Sciences (poster), New Orleans, LA
- **9.** Moeller* HV, Peltomaa E, **Johnson MD**, Neubert MG (2016) Merging models and data to understand acquired phototroph blooms. EMBO/EMBL Symposium "A New

- Age of Discovery for Aquatic Microeukaryotes" (poster), EMBL, ATC, Heidelberg, DE
- **10.** Moeller*, HV, **Johnson MD**, Neubert MG (2015) Acquired phototrophs as mediators of planktonic community dynamics. OCB Trait-Based Approaches to Ocean Life Workshop (poster), Waterville Valley, NH,
- 11. Moeller*, HV, Lasek-Nesselquist E, **Johnson MD** (2015) Regulation of acquired metabolic potential by the marine ciliate *Mesodinium rubrum*. Ecological Society of America Annual Meeting (poster), COS 72-1. Baltimore, MD
- **12. Johnson MD,** Edwards BR, Beaudoin DJ, Van Mooy BA, Vardi A (2015)
 Infochemical signaling mediates microzooplankton interactions with diatoms. ASLO (oral), Granada, ES
- **13.** Harvey* E, Pulson-Ellestad K, Mincer T, Van Mooy BA, Bidle KD, **Johnson MD** (2015) The combined influence of morphology and chemistry in mediating heterotrophic protist grazing interactions. ASLO (oral), Granada, ES
- **14.** Poulson-Ellestad K, Harvey* E, Ranson H, **Johnson MD**, Mincer T (2015) Listening in on Coccolithophore-grazer interactions. ASLO (oral), Granada, ES
- **15. Johnson MD**, Lasek-Nesselquist E (2014) Cellular and metabolic integration of symbiotic organelles in the ciliate *Mesodinium rubrum*. International Society of Evolutionary Protistologists (oral), Banff, AB CAN
- **16.** Lasek-Nesselquist E and **Johnson MD** (2014) The molecular interplay between a ciliate and its stolen organelles. International Society of Evolutionary Protistologists (oral) Banff, AB
- **17. Johnson MD**, Beaudoin D, Vardi A (2014) The role of infochemicals in mediating microzooplankton predation on diatoms. Gordon Research Conference (poster), Marine Microbes (poster), Waltham, MA
- **18.** Harvey* E and **Johnson MD** (2014) Untangling the complex: the impact of intraspecific prey variability on grazing interactions. Gordon Research Conference, Marine Microbes (poster), Waltham, MA
- **19.** Lasek-Nesselquist E and **Johnson MD** (2014) Molecular underpinnings of organelle retention in the ciliate *Mesodinum rubrum*. Gordon Research Conference, Marine Microbes (poster), Waltham, MA

- **20.** Poulson-Ellestad K, Harvey* E, Rathjen K, **Johnson MD**, Mincer T (2014) Sound the Alarm: Listening in on predator-prey interactions among marine protists.

 American Society of Microbiologists (poster), Boston, MA
- **21.** Mincer TJ, **Johnson MD**, Sharma RS, Flynn-Caroll A, Wildschutte H, Polz M (2014) Indole as a mediator of protozoan grazing of bacteria: a new role for a multifaceted infochemical. American Society of Microbiologists (poster), Boston, MA
- **22. Johnson MD**, Stoecker DK, Beaudoin D, Frada M. (2013) Seasonal dynamics of genetic diversity and trophic relationships between *Mesodinium rubrum* and cryptophyte algae. ICOP (oral), Vancouver, BC
- **23. Johnson MD** and A Vardi (2011) Using functional genomics approaches to study the role of chemical signaling in microzooplankton-prey interactions. ASLO (poster), San Juan, PR
- **24.** Zaitsev*, E and **MD Johnson** (2011) Investigating the role of nitric oxide, oxidative stress, and temperature in *Symbiodinium* spp. ASLO (oral), San Juan, PR; *REU student presentation*
- **25. Johnson MD**, JB Lee, PG Falkowski (2010) Genetic diversity and heat stress phenotypes in *Symbiodinium*. ASLO (oral). Portland, OR
- **26. Johnson MD** and DK Stoecker (2006) Nuclear-retention by a marine phototrophic ciliate. Gordon Research Conference, Marine Microbes (poster), Biddeford, ME
- **27. Johnson MD** (2006) Organelle retention by the phototrophic ciliate, *Myrionecta rubra*. Evolution of Aquatic Phototrophs (poster), Rutgers U, New Brunswick, NJ
- **28. Johnson MD**, Tengs T, Oldach D, Stoecker DK (2004) Highly divergent SSU rRNA genes found in the marine ciliates *Myrionecta rubra* and *Mesodinium pulex*. Society of Protozoologists Annual Meeting (poster), Bryant College, Smithfield, RI
- **29. Johnson MD** and DK Stoecker (2003) The role of feeding in growth and the photosynthesis of *Myrionecta rubra*. Joint meeting of the Phycological Society of America and Society of Protozoologists (oral), Gleneden beach, OR
- **30. Johnson MD** and DK Stoecker (2003) Use of fluorescent in situ hybridization to document retention of cryptophyte nuclei by the phototrophic ciliate *Myrionecta rubra*. 11th East Coast Protozoology Conference (oral), Catonsville, MD
- **31. Johnson MD**, Oldach D, Stoecker DK (2002) Phylogenetic diversity of cryptophycean plastids within the photosynthetic ciliate *Myrionecta rubra*. New

- England Molecular and Evolutionary Biologists Meeting (oral), Marine Biological Lab, Woods Hole, MA
- **32. Johnson MD**, Rome M, Stoecker DK (2002) Microzooplankton grazing on *Prorocentrum minimum* and *Karlodinium micrum* in Chesapeake Bay. Xth International Conference on Harmful Algae (poster), St. Petersburg, FL
- **33. Johnson MD**, Oldach D, Stoecker DK (2002) Phylogenetic diversity of cryptophycean plastids within the photosynthetic ciliate *Mesodinium rubrum* and ingestion of fluorescently labeled cryptophytes. American Society of Limnology and Oceanography (oral), Victoria, BC
- **34. Johnson MD**, DK Stoecker (2001) Physiology and growth of the marine ciliate *Mesodinium rubrum*. American Society of Limnology and Oceanography (oral), Albuquerque, NM
- **35.** M Rome, **Johnson MD**, Stoecker DK (2000) Grazing on *Gyrodinium galatheanum* and *Prorocentrum minimum* in Chesapeake Bay. ECOHAB Meeting (poster), Woods Hole, MA, poster
- **36. Johnson MD**, Bernardesco G, Shapiro, L (1998) The use of denaturing gradient gel electrophoresis (DGGE) to identify bacteria within the phycosphere of marine phytoplankton. American Society of Microbiology (poster), Atlanta, GA
- **37. Johnson MD**, St Aubin D (1995) Tissue distribution and serum levels of selected enzymes in five species of sharks: *Sphyrna lewini, Prionace glauca, Carcharhinus taurus, C. plumbeus,* and *Isurus oxyrinchus*. International Association of Aquatic Animal Medicine (poster), Mystic, CT