

February, 2014

Julia Kubanek, Ph.D.
CURRICULUM VITAE

Professor and Associate Dean
School of Biology & School of Chemistry and Biochemistry
Aquatic Chemical Ecology Center
Parker H. Petit Institute of Bioengineering and Biosciences
Georgia Institute of Technology

Educational Background:

B.S. Chemistry	1988-1991	Queen's University at Kingston, Ontario, Canada
Ph.D. Organic Chemistry	1993-1998	University of British Columbia

Employment History:

1998-2000	Postdoctoral Associate, Scripps Institution of Oceanography, UCSD
2000-2001	Postdoctoral Associate, University of North Carolina at Wilmington
2001-2006	Assistant Professor, School of Biology and School of Chemistry & Biochemistry, Georgia Institute of Technology
2006-2011	Associate Professor, School of Biology and School of Chemistry & Biochemistry, Georgia Institute of Technology
2009-2011	Associate Chair, School of Biology, Georgia Institute of Technology
2009-present	Co-Director, Center for Aquatic Chemical Ecology, Institute of Technology
2010-2013	Waernska Guest Professor, University of Gothenburg, Sweden (professional leave from Georgia Tech March-July 2010; additional research visits to University of Gothenburg during summers 2012, 2013)
2011-present	Professor, School of Biology and School of Chemistry & Biochemistry, Georgia Institute of Technology
2014-present	Associate Dean for Research, College of Sciences, Georgia Institute of Technology

Current Fields of Interest:

Aquatic chemical ecology
Chemical signaling
Chemical communication
Chemoreception
Chemical biology
Marine natural products chemistry
Secondary metabolism
Drug discovery
Plankton ecology
Metabolomics

Teaching Experience:

Spring 2014	BIOL 4450 Senior Seminar	15 students
Fall 2013	CHEM 1315 Survey of Organic Chemistry	197 students
Spring 2013	BIOL 4450 Senior Seminar	12 students

Fall 2012	BIOL/CHEM 6756 BIOL 4746 Signaling Molecules	21 students
Fall 2012	BIOL 8801 Special Topics: Readings in Signaling Molecules	9 students
Spring 2012	BIOL 4450 Senior Seminar	14 students
Fall 2011	CHEM 1315 Survey of Organic Chemistry	142 students
Spring 2011	BIOL 4450 Senior Seminar	15 students
Spring 2011	BIOL 4590 Research Project Lab (co-taught)	17 students
Fall 2010	BIOL 4690 Independent Research Project	10 students
Fall 2009	CHEM 8903 Graduate Seminar	39 students
Fall 2009	BIOL 4620/6620 Aquatic Chemical Ecology (co-taught)	27 students
Fall 2009	BIOL 4690 Independent Research Project	9 students
Fall 2008	BIOL 4590 Research Project Lab	14 students
Fall 2008	BIOL 4450 Senior Seminar	14 students
Fall 2007	BIOL/CHEM 6756 BIOL 4746 Signaling Molecules	30 students
Fall 2007	BIOL 6621 Aquatic Chemical Ecology Laboratory (co-taught)	9 students
Fall 2007	CHEM 8903 Graduate Seminar	45 students
Spring 2007	BIOL 4450 Senior Seminar	12 students
Fall 2006	BIOL 4590 Research Project Lab	10 students
Fall 2006	BIOL 4450 Senior Seminar	16 students
Fall 2005	BIOL/CHEM 6756 BIOL 4746 Signaling Molecules	22 students
Fall 2005	BIOL 6621 Aquatic Chemical Ecology Laboratory (co-taught)	6 students
Fall 2005	CHEM 4341/6371 Applied Spec./Org. Compounds (co-taught)	29 students
Fall 2004	BIOL/CHEM 6756 BIOL 4746 Signaling Molecules	22 students
Fall 2004	BIOL 6621 Aquatic Chemical Ecology Laboratory (co-taught)	9 students
Fall 2004	BIOL 8101/8106 Tools of Science/Intro to Research (co-taught)	25 students
Fall 2003	BIOL 1510 Biological Principles (3 sections co-taught)	~450 students
Fall 2003	CHEM 4341/6371 Applied Spec./Org. Compounds (co-taught)	42 students
Fall 2003	BIOL 8101/8106 Tools of Science/Intro to Research (co-taught) (course re-organized by Kubanek and co-instructors)	21 students
Spring 2003	BIOL/CHEM 6756 Signaling Molecules	25 students
Spring 2003	BIOL 6621 Aquatic Chemical Ecology Laboratory (co-taught) (new course designed by Kubanek and co-instructor)	13 students
Spring 2002	BIOL 8803D/CHEM 8902 Signaling Molecules (new course designed by Kubanek)	17 students

Refereed Publications – Journals:

(# indicates Kubanek group grad student/postdoc; @ indicates undergraduate author; * indicates corresponding authorship)

**Google Scholar profile at <http://scholar.google.com/citations?user=AxeeT2wAAAAJ&hl=en>
H index = 28; 2144 total citations since 1991**

(a) Accepted for publication:

81. Penczykowski RM, Lemanski BCP@, Sieg RD#, Hall SR, Housley Ochs J, Kubanek J, Duffy MA. When bad food is good: Poor resource quality lowers transmission potential by changing foraging behaviour. Manuscript accepted by **Functional Ecology**.
80. Kamio M, Schmidt M, Germann MW, Kubanek J, Derby CD. The smell of moulting: *N*-acetylglucosamino-1,5-lactone is a premoult biomarker and candidate component of the

courtship pheromone in the urine of the blue crab, *Callinectes sapidus*. Manuscript accepted by **Journal of Experimental Biology**. doi: 10.1242/jeb.099051

(b) Already published:

79. Teasdale ME#, Prudhomme J, Torres M, Braley M, Cervantes S, Bhatia SC@, La Clair JJ, Le Roch K*, Kubanek J* (2013) Pharmacokinetics, metabolism, and *in vivo* efficacy of the antimalarial natural product bromophycolide A. **ACS Medicinal Chemistry Letters** 4:989-993.
78. Snare DJ#, Fields AM, Snell TW, Kubanek J* (2013) Lifespan extension of rotifers by treatment with red algal extracts. **Experimental Gerontology** 48:1420-1427. DOI:10.1016/j.exger.2013.09.007
77. Roy J#, Poulson-Ellestad K#, Sieg RD#, Poulin R#, Kubanek J* (2013) Chemical ecology of the marine plankton. **Natural Product Reports** 30:1364-1379. DOI: 10.1039/C3NP70056A.
76. Sieg RD#, Wolfe K@, Willey D@, Kubanek J* (2013) Multiple chemical defenses produced by *Spartina alterniflora* deter farming snails and their fungal crop. **Marine Ecology Progress Series** 488:35-49. doi: 10.3354/meps10415
75. Sieg RD#, Wolfe K@, Willey D@, Ortiz-Santiago V@, Kubanek J* (2013) Chemical defenses against herbivores and fungi limit establishment of fungal farms on salt marsh angiosperms. **Journal of Experimental Marine Biology & Ecology** 446:122-130. DOI 10.1016/j.jembe.2013.05.007
74. Sieg RD#, Kubanek J* (2013) Chemical ecology of marine angiosperms: opportunities at the interface of marine and terrestrial systems. **Journal of Chemical Ecology** 39:687-711. DOI 10.1007/s10886-013-0297-9
73. Andras TD, Alexander TS#, Gahlana A, Parry RM, Fernandez FM, Kubanek J, Wang MD, Hay ME (2012) Seaweed allelopathy against coral: surface distribution of seaweed secondary metabolites by imaging mass spectrometry. **Journal of Chemical Ecology** 38:1203-1214. DOI 10.1007/s10886-012-0204-9
72. Dove ADM, Leisen J, Zhou M, Byrne J, Lim-Hing K@, Webb H, Gelbaum L, Viant M, Kubanek J, Fernandez FF (2012) Biomarkers of whale shark health – a metabolomic approach. **PLoS ONE** 7(11)e49379. doi:10.1371/journal.pone.0049379
71. Teasdale ME#, Shearer TL, Engel S, Alexander TS#, Fairchild CR, Le Roch K, Prudhomme J, Aalbersberg W, Hay ME, Kubanek J* (2012) Bromophycoic acids: bioactive natural products from a Fijian red alga *Callophycus* sp. **Journal of Organic Chemistry** 77:8000-8006 DOI: 10.1021/jo301246x.
70. Cervantes S, Stout EP#, Prudhomme J, Engel S, Bruton M, Cervantes M, Carter D, Tae-Chang Y, Hay ME, Aalbersberg W, Kubanek J, Le Roch K (2012) High content live cell imaging for the discovery of new antimalarial marine natural products. **BMC Infectious Diseases** 12:1. doi: 10.1186/1471-2334-12-1
69. Rasher DB, Stout EP#, Engel S, Kubanek J, Hay ME (2011) Macroalgal terpenes function as allelopathic agents against reef corals. **Proceedings of the National Academy of Sciences** 108:17726-17731 (DOI: 10.1073/pnas.1108628108)
68. Redshaw CH#, Sutter DA@, Lim-Hing K@, Heckman ML#, Jakobsson SL, Naar J, Kubanek J* (2011) Tracking losses of brevetoxins on exposure to phytoplankton competitors: Ecological impacts. **Harmful Algae** 12:119-124 DOI: 10.1016/j.hal.2011.09.007.

67. Zhang JL, Kubanek J, Hay ME, Aalbersberg W, Ye WC, Jiang RW# (2011) Rapid identification of triterpenoid sulfates and hydroxy fatty acids including two new constituents from *Tydemania expeditionis* by liquid chromatography-mass spectrometry. **Journal of Mass Spectrometry** 46:908-916. DOI: 10.1002/jms.1969
66. Stout EP#, Cervantes S, Prudhomme J, France S, La Clair JJ, Le Roch K*, Kubanek J* (2011) Bromophycolide A targets heme crystallization in the human malaria parasite *Plasmodium falciparum*. **ChemMedChem** 6:572-577. DOI: 10.1002/cmdc.201100252
65. Sieg RD#, Poulson-Ellestad KL#, Kubanek J* (2011) Chemical ecology of the marine plankton. **Natural Product Reports** 28:388-399. DOI: 10.1039/C0NP00051E
64. Stout EP#, La Clair JJ, Snell TW, Shearer TL, Kubanek J* (2010) Conservation of progesterone hormone function in invertebrate reproduction. **Proceedings of the National Academy of Sciences** 107:11859-11864; DOI: 10.1073/pnas.1006074107
63. Cohen SP#, Vincent KK, Halstead-Nussloch GE, Hatt H, Kubanek J, McCarty NA (2010) RL-TGR, a co-receptor involved in aversive chemical signaling. **Proceedings of the National Academy of Sciences** 107:12339-12344; DOI:10.1073/pnas.1000343107
62. Lin AS#, Engel S, Smith BA#, Fairchild CR, Aalbersberg W, Hay ME, Kubanek J* (2010) Structure and biological evaluation of novel cytotoxic sterol glycosides from a marine red alga *Peyssonnelia* sp. **Bioorganic and Medicinal Chemistry** 18:8264-8269. DOI:10.1016/j.bmc.2010.10.010
61. Redshaw CH#, Sutter D@, Myers TL#, Naar J, Kubanek J* (2010) Tracking losses of brevetoxins on exposure to phytoplankton competitors: Mechanistic insights. **Aquatic Toxicology** 100:365-372. DOI:10.1016/j.aquatox.2010.08.015
60. Poulson KL#, Sieg RD#, Prince EK#, Kubanek J* (2010) Allelopathic compounds of a red tide dinoflagellate have species-specific and context-dependent impacts on phytoplankton. **Marine Ecology Progress Series** 416:69-78. DOI: 10.3354/meps08788
59. Prince EK#, Poulson KL#, Myers TL#, Sieg RD#, Kubanek J* (2010) Characterization of allelopathic compounds from the red tide dinoflagellate *Karenia brevis*. **Harmful Algae** 10:39-48. DOI: 10.1016/j.hal.2010.06.003
58. Stout EP#, Prudhomme J, Le Roch K, Hay ME, Franzblau S, Fairchild CR, Aalbersberg W, Kubanek J* (2010) Unusual antimalarial meroditerpenes from Fijian red algae. **Bioorganic and Medicinal Chemistry Letters** 20:5662-5665. DOI: 10.1016/j.bmcl.2010.08.031
57. Blain JC, Mok YF, Kubanek J, Allingham JS (2010) Two molecules of lobophorolide cooperate to stabilize an actin dimer using both their 'ring' and 'tail' region. **Chemistry & Biology** 17:802-807 DOI:10.1016/j.chembiol.2010.06.010.
56. Lin, A-S#, Stout EP#, Prudhomme J, Le Roch K, Fairchild CR, Franzblau SG, Hay ME, Aalbersberg W, Kubanek J* (2010) Bioactive bromophycolides R-U from the Fijian red alga *Callophycus serratus*. **Journal of Natural Products** 73:275-278. DOI: 10.1021/np900686w
55. Whalen KE, Lane AL#, Kubanek J, Hahn ME (2010) Biochemical warfare on the reef: the role of glutathione S-transferases in consumer tolerance of dietary prostaglandins. **PLoS ONE** 5:e8537 DOI: 10.1371/journal.pone.0008537.
54. Lane AL#, Mular L@, Drenkard EJ@, Shearer TL, Engel S, Fredericq S, Fairchild CR, Prudhomme J, Le Roch K, Hay ME, Aalbersberg W, Kubanek J* (2010) Ecological leads for natural product discovery: Novel sesquiterpene hydroquinones from the red macroalga *Peyssonnelia* sp. **Tetrahedron** 66:455-461 DOI: 10.1016/j.tet.2009.11.042

53. Lane AL#, Nyadong L, Galhena A, Shearer TL, Stout EP#, Parry RM, Kwasnik M, Wang MD, Hay ME, Fernandez F, Kubanek J* (2009) Desorption electrospray ionization mass spectrometry reveals surface-mediated antifungal chemical defense of a tropical seaweed. **Proceedings of the National Academy of Sciences** 106:7314-7319 (DOI: 10.1073/pnas.0812020106)
52. Nyadong L, Hohenstein EG, Galhena A, Lane AL#, Kubanek J, Sherrill CD, Fernandez F (2009) Reactive desorption electrospray ionization mass spectrometry (DESI MS) of natural products of a marine alga. **Analytical & Bioanalytical Chemistry** 394:245-254 DOI: 10.1007/s00216-009-2674-3
51. Poulson K#, Sieg RD#, Kubanek J* (2009) Chemical ecology of the marine plankton. **Natural Product Reports** 26:729-745 (DOI: 10.1039/b806214p)
50. Lane AL#, Stout EP#, Lin AS#, Prudhomme J, Le Roch K, Fairchild CR, Franzblau S, Hay ME, Aalbersberg W, Kubanek J* (2009) Antimalarial bromophycolides J-Q from the Fijian red alga *Callophycus serratus*. **Journal of Organic Chemistry** 74:2736-2742 (DOI: 10.1021/jo900008w)
49. Stout EP#, Hasemeyer A@, Lane AL#, Davenport T, Engel S, Hay ME, Fairchild CR, Prudhomme J, Le Roch K, Aalbersberg W, Kubanek J* (2009) Antibacterial neurymenolides from the Fijian red alga *Neurymenia fraxinifolia*. **Organic Letters** 11:225-228 (DOI: 10.1021/ol8024814)
48. Snell TW, Shearer TL, Smith HA, Kubanek J, Gribble KE, Mark Welch D (2009) Genetic determinants of mate recognition in *Brachionus manjavacas* (Rotifera). **BMC Biology** 7:60. DOI: 10.1186/1741-7007-7-60
47. Thompson CH, Olivetti PR, Fuller MD, Freeman CS, McMaster D, French RJ, Pohl J, Kubanek J, McCarty NA (2009) Isolation and characterization of a high affinity peptide inhibitor of ClC-2 chloride channels. **Journal of Biological Chemistry** 284:26051-26062. doi:10.1074/jbc.M109.031724
46. Prince EK#, Myers TL, Naar J, Kubanek J* (2008) Competing phytoplankton undermines allelopathy of a bloom-forming dinoflagellate. **Proceedings of the Royal Society B: Biological Sciences** 275:2733-2741 (DOI:10.1098/rspb.2008.0760)
45. Prince EK#, Myers TL, Kubanek J* (2008) Effects of harmful algal blooms on competitors: allelopathic mechanisms of the red tide dinoflagellate *Karenia brevis*. **Limnology & Oceanography** 53: 531-541
44. Myers TL, Prince EK#, Naar J, Kubanek J* (2008) Loss of waterborne brevetoxins from exposure to phytoplankton competitors. **Harmful Algae** 7:762-771
43. Padove Cohen SA, Hatt H, Kubanek J, McCarty NA (2008) Reconstitution of a chemical defense signaling pathway in a heterologous system. **Journal of Experimental Biology** 211:599-605
42. Jiang RW#, Lane AL#, Mylacraine L, Hardcastle K, Fairchild CR, Aalbersberg W, Hay ME, Kubanek J* (2008) Structures and absolute configurations of sulfate-conjugated triterpenoids including an antifungal chemical defense of the marine green alga *Tydemania expeditionis*. **Journal of Natural Products** 71:1616-1619 (DOI: 10.1021/np800307h)
41. Jiang RW#, Hay ME, Fairchild CR, Prudhomme J, Le Roch K, Aalbersberg W, Kubanek J* (2008) Antineoplastic unsaturated fatty acids from Fijian macroalgae. **Phytochemistry** 69:2495-2500 (DOI:10.1016/j.phytochem.2008.07.005)

40. Lane AL#, Stout EP#, Hay ME, Prusak AC#, Hardcastle K, Fairchild CR, Franzblau SC, Le Roch K, Prudhomme J, Aalbersberg W, Kubanek J* (2007) Callophycoic acids and callophycols from the Fijian red alga *Callophycus serratus*. **Journal of Organic Chemistry** 72:7343-7351
39. Kubanek J*, Snell TW, Pirkle C@ (2007) Chemical defense of the red tide dinoflagellate *Karenia brevis* against rotifer grazing. **Limnology & Oceanography** 52:1026-1035
38. Fuller MD, Thompson CH, Zhang ZR, McMaster D, French RJ, Pohl J, Kubanek J, McCarty NA (2007) State-dependent inhibition of CFTR chloride channel by a novel peptide toxin. **Journal of Biological Chemistry** 282:37545-37555
37. Parker JD, Burkepile DE, Collins DO#, Kubanek J, Hay ME (2007) Stream mosses as chemically-defended refugia for freshwater macroinvertebrates. **OIKOS** 116:302-312
36. Prince EK#, Lettieri L@, McCurdy KJ@, Kubanek J* (2006) Fitness consequences for copepods feeding on a red tide dinoflagellate: deciphering the effects of nutritional value, toxicity, and feeding behavior. **Oecologia** 147:479-488
35. Lane AL#, Kubanek J* (2006) Structure-activity relationship of chemical defenses from the freshwater plant *Micranthemum umbrosum*. **Phytochemistry** 67:1224-1231
34. Kubanek J*, Prusak AC#, Snell TW, Giese RA@, Fairchild CR, Aalbersberg W, Hay ME (2006) Bromophycolides C-I from the Fijian red alga *Callophycus serratus*. **Journal of Natural Products** 69:731-735
33. Burkepile DE, Parker JD, Woodson CB, Mills HJ, Kubanek J, Sobecky P, Hay ME (2006) Chemically-mediated competition between microbes and animals: microbes as consumers in food webs. **Ecology** 87:2821-2831
32. Snell TW, Kubanek J, Carter W, Payne AB, Kim J, Hicks MK@, Stelzer CP (2006) A protein signal triggers sexual reproduction in *Brachionus plicatilis* (Rotifera). **Marine Biology** 149:763-773
31. Parker JD, Collins DO#, Kubanek J, Sullards MC, Bostwick D, Hay ME (2006) Chemical defenses promote persistence of the aquatic plant *Micranthemum umbrosum*. **Journal of Chemical Ecology** 32:815-833
30. Kubanek J*, Prusak AC#, Snell TW, Giese RA@, Hardcastle K, Fairchild C, Aalbersberg W, Raventos-Suarez C, Hay ME (2005) Antineoplastic diterpene-benzoate macrolides from the Fijian red alga *Callophycus serratus*. **Organic Letters** 7:5261-5264
29. Kubanek J*, Hicks MK@, Naar J, Villareal T (2005) Does the red tide dinoflagellate *Karenia brevis* use allelopathy to out-compete other phytoplankton? **Limnology and Oceanography** 50: 883-895
28. Prusak AC#, O'Neal J@, Kubanek J* (2005) Prevalence of chemical defenses in freshwater macrophytes. **Journal of Chemical Ecology** 31:1145-1160
27. Barsby, T, Kubanek J* (2005) Isolation and structure elucidation of feeding deterrent diterpenoids from the sea pansy *Renilla reniformis*. **Journal of Natural Products** 68:511-516
26. Thompson CH, Fields DM, Olivetti PR, Fuller MD, Zhang ZR, Kubanek J, McCarty NA (2005) Inhibition of ClC-2 Cl⁻ channels by a peptide component of scorpion venom **Journal of Membrane Biology** 208:65-76
25. John EA#, Pollet P, Gelbaum L, Kubanek J* (2004) Synthesis and antifeedant effect of 2,3,4-tribromopyrrole. **Journal of Natural Products** 67:1929-1931
24. Kubanek J*, Lester S, Fenical W, Hay ME (2004) Ambiguous role of phlorotannins as chemical defenses in the brown alga *Fucus vesiculosus*. **Marine Ecology Progress Series** 277:79-93

23. Kicklighter C, Kubanek J, Hay ME (2004) Do brominated natural products defend marine worms from consumers? Some do, most don't. **Limnology and Oceanography** 49:430-441
22. Fuller MD, Zhang ZR, Cui G, Kubanek J, McCarty NA (2004) Inhibition of CFTR channels by a peptide toxin of scorpion venom. **American Journal of Physiology – Cell Physiology** 287:C1328-C1341
21. Kubanek J, Jensen PR, Keifer PA, Sullards C, Collins DO#, Fenical W (2003) Seaweed resistance to microbial attack: A targeted chemical defense against marine fungi. **Proceedings of the National Academy of Sciences USA** 100: 6916-6921
20. Barsby T, Kicklighter, C, Hay ME, Sullards MC, Kubanek J* (2003) Defensive 2-alkylpyrrole sulfamates from the marine annelid *Cirriiformia tentaculata* [Polychaeta: Cirratulidae]. **Journal of Natural Products** 66:1110-1112
19. Kicklighter C, Kubanek J, Barsby T, Hay ME (2003) Palatability and defense of some tropical marine worms: Alykylpyrrole sulfamates as deterrents to fish feeding. **Marine Ecology Progress Series** 263:299-306
18. Taylor RB, Lindquist N, Kubanek J, Hay ME (2003) Intraspecific variation in palatability and defensive chemistry of brown seaweeds: effects on herbivore fitness. **Oecologia** 136:412-423
17. Kubanek J*, Whalen KE@, Engel S, Kelly SR, Henkel TP, Fenical W, Pawlik JR (2002) Multiple defensive roles for triterpene glycosides from two Caribbean sponges. **Oecologia** 131:125-136
16. Hay ME, Kubanek J (2002) Community and ecosystem level consequences of chemical signaling in the plankton. **Journal of Chemical Ecology** 28:2001-2016
15. Bourdelais AJ, Tomas CR, Naar J, Kubanek J, Baden DG (2002) New fish-killing alga in coastal Delaware produces neurotoxins. **Environmental Health Perspectives** 110:465:470
14. Naar J, Bourdelais A, Tomas CR, Kubanek J, Whitney PL, Flewelling L, Steidinger K, Lancaster J, Baden DG (2002) A competitive ELISA to detect brevetoxin from *Karenia brevis* (formerly *Gymnodinium breve*) in seawater, shellfish, and mammalian body fluid. **Environmental Health Perspectives** 110:179-186
13. Kubanek J*, Fenical W, Pawlik JR (2001) New antifeedant triterpene glycosides from the Caribbean sponge *Erylus formosus*. **Natural Product Letters** 15:275-285
12. Kubanek J, Hay ME, Brown PJ, Lindquist N, Fenical W (2001) Lignoid chemical defenses in the freshwater macrophyte *Saururus cernuus*. **Chemoecology** 11:1-8
11. Kubanek J, Pawlik JR, Eve TM, Fenical W (2000) Triterpene glycosides defend the Caribbean reef sponge *Erylus formosus* from predatory fishes. **Marine Ecology Progress Series** 207:69-77
10. Kubanek J*, Fenical W, Hay ME, Brown PJ, Lindquist N (2000) Two new antifeedant lignans from the freshwater macrophyte *Saururus cernuus*. **Phytochemistry** 54:281-287
9. Kubanek J, Faulkner DJ, Andersen RJ (2000) Geographic variation and tissue distribution of endogenous terpenoids in the Northeastern Pacific Ocean dorid nudibranch *Cadlina luteomarginata*.: implications for the regulation of *de novo* biosynthesis. **Journal of Chemical Ecology** 26:377-389
8. Kubanek J, Andersen RJ (1999) Evidence for *de novo* biosynthesis of the polyketide fragment of diaulusterol A by the Northeastern Pacific dorid nudibranch *Diaulula sandiegensis*, **Journal of Natural Products** 62:777-779

7. Ohba M, Nishimura Y, Imasho M, Fujii T, Kubanek J, Andersen RJ (1998) Chiral synthesis of tri-*O*-methylimbricatine, an etherified derivative of the starfish alkaloid imbricatine. **Tetrahedron Letters** 39:5999-6002
6. Kubanek J, Graziani EI, Andersen RJ (1997) Investigations of terpenoid biosynthesis by the dorid nudibranch *Cadlina luteomarginata*. **Journal of Organic Chemistry** 62:7239-7246
5. Kubanek J, Andersen RJ (1997) Evidence for the incorporation of intact butyrate units in the biosynthesis of triophamine. **Tetrahedron Letters** 38:6327-6330
4. Dumdei EJ, Kubanek J, Coleman JE, Pika J, Andersen RJ, Steiner JR, Clardy J (1997) New terpenoid metabolites from the skin extracts, an egg mass, and dietary sponges of the Northeastern Pacific dorid nudibranch *Cadlina luteomarginata*. **Canadian Journal of Chemistry** 75: 773-789
3. Kubanek J, Williams DE, de Silva ED, Allen T, Andersen RJ (1995) Cytotoxic alkaloids from the flatworm *Prostheceraeus villatus* and its tunicate prey *Clavelina lepadiformis*. **Tetrahedron Letters** 36:6189-6192
2. Bikker JA, Kubanek J, Weaver D (1994) Quantum pharmacologic studies applicable to the design of anti-convulsants: theoretical conformational analysis and structure-activity studies of barbiturates. **Epilepsia** 35:411-425
1. Davis JM, Cameron DR, Kubanek J, Mizuyabu L, Thatcher GRJ (1991) Acceleration of sulfate ester hydrolysis in hydrophobic environments. **Tetrahedron Letters** 32:2205-2206

Refereed Publications – Books and Book Chapters:

4. Pavia H, Baumgartner F, Cervin G, Enge S, Kubanek J, Nylunch GM, Selander E, Svensson JR, Toth GB (2012) Chemical defences against herbivores. In: **Chemical Ecology in Aquatic Systems**, Bronmark C, Hansson LA, Eds., Oxford University Press, Oxford UK.
3. Stout EP#, Kubanek J* (2010) Marine macroalgal natural products. **Comprehensive Natural Products II: Chemistry and Biology**. Mander L, Lui HW, eds. Elsevier, Oxford, Vol. 2, pp. 41-65.
2. Kubanek J*, Snell TW (2008) Quorum sensing in rotifers. In **Chemical Communication Among Bacteria** Winans SC, Bassler BL (Eds.), ASM Press, Washington DC, pp.453-461.
1. Lane AL#, Kubanek J* (2008) Secondary metabolite defenses against pathogens and biofoulers. In **Algal Chemical Ecology**, Amsler CD (Ed.), Springer-Verlag, Berlin, pp.229-243.

Refereed Publications – Conference Proceedings:

2. Naar J, Kubanek J, Weidner A, Flewelling L, Bourdelais AJ, Steidinger, K, Baden DG (2004) Brevetoxin depuration in shellfish via production of non-toxic metabolites: Consequences for seafood safety and the environmental fate of biotoxins. In: Steidinger KA, Landsberg JH, Tomas CR, Vargo GA (eds). **Harmful Algae 2002: Proceedings of the Xth International Conference** pp 488-490
1. Bourdelais AJ, Campbell S, Benson J, Abraham WM, Naar J, Kubanek J, Wright JLC, Jacocks H, Baden DG (2004) Florida's red tide dinoflagellate *Karenia brevis* may modulate its potency by producing a non-toxic competitive antagonist. In: Steidinger KA, Landsberg JH, Tomas CR, Vargo GA (eds). **Harmful Algae 2002: Proceedings of the Xth International Conference** pp 113-115

Non-Refereed Publications:

4. Kubanek J (2014) There's something in the water: the future of marine chemical ecology. Invited essay accepted for 40th anniversary issue by **Journal of Chemical Ecology**.
3. Kubanek J (2011) Review of *Marine Ecology: Concepts and Applications*. **Journal of Natural Products** 74:1674.
2. Kubanek J (2003) Chemical defense in invertebrates. In **Encyclopedia of Life Support Systems**, Section: Chemical Ecology, edited by JD Hardege, developed under the auspices of UNESCO, EOLSS Publishers, Oxford UK <http://www.eolss.net>
1. Kubanek J (1998) Chemical studies on the origin of secondary metabolites in selected marine invertebrates. Ph.D. dissertation, **University of British Columbia**.

Patents:

- U.S. Patent Application serial number 13/021,171 filed February 4, 2011 by Georgia Tech and University of California – Riverside and issued July 9, 2013 (U.S. Patent #8,481,757): “Compounds and compositions useful in the treatment of malaria”.
- U.S. Provisional Patent Application filed February 12, 2009 and February 5, 2010 by Georgia Tech (serial # 61/151,952): “Antimalarial activity of bromophycolide natural products”
- U.S. Provisional Patent Application filed November 12, 2008 and December 1, 2009 by Georgia Tech (serial # 61/113,732): “Antibacterial neurymenolides from the Fijian red alga *Neurymenia fraxinifolia*”
- U.S. and European Patent Application filed July 12th, 2007 by Georgia Tech and issued November 27, 2012 (U.S. Patent Office application #12/373,556, patent #8,324,158): “CLC Channel Ligand”
- U.S. Patent Application filed May 19th, 2007 by Georgia Tech and issued Jan 31, 2012 (U.S. Patent Office application # 12/299,881, patent # 8,106,013): “ABC Transporter Ligand”
- U.S. Provisional Patent Application filed July 14th, 2006 by Georgia Tech: “A Peptide Toxin that Interacts with CIC-2 Chloride Channel Proteins”
- U.S. Provisional Patent Application filed May 19th, 2006 by Georgia Tech: “A Peptide Toxin that Interacts with CFTR Chloride Channel Proteins”
- U.S. Provisional Patent Application filed June 17th, 2005 by Georgia Tech: “Diterpene-Benzoate Macrolides”

Research grants and contracts:

(a) Administered:

Currently funded:

02/01/2013-01/31/2016 NSF OCE-1262962 (\$470,782; Kubanek co-PI with PI Linda Green) “REU Site: Aquatic chemical ecology at Georgia Tech” Undergraduate research training grant.

- 09/01/2012-08/31/2015 NSF OCE-1234449 (\$723,886; \$256,000 budgeted for Kubanek, with Weissburg PI, Kubanek and Webster co-PIs) “The role of the sensory environment and predator chemical signal properties in determining NCE strength in cascading interactions on oyster reefs”
- 10/01/2011-09/30/2014 NSF OCE-1060300 (\$545,870; Kubanek PI with co-PIs Facundo Fernandez & Brook Nunn) “Waterborne chemical cues in the marine plankton: a systems biology approach”
- 09/01/2009-05/31/2014 NIH/NSF ICBG U01 TW007401 (total \$4,302,741; \$875,000 direct costs budgeted for Kubanek, as 1 of 4 PIs with Project Director Mark Hay) “Exploration, conservation, and development of marine biodiversity in Fiji”

Previous funding:

- 2009-2013 NSF OCE-0851606 (\$397,151, Kubanek PI with co-PI Marc Weissburg) “REU Site: Aquatic Chemical Ecology at Georgia Tech” Undergraduate research training grant
- 2012 Royal Swedish Academy of Sciences (\$14,880 Kubanek sole-PI) “Regulation of red tide toxicity by chemical cues from marine zooplankton”; grant to support internationalization and scientific renewal, administered through the Sven Lovén Centre for Marine Sciences in Sweden
- 2007-2011 NSF Biological Oceanography OCE-0726689 (\$482,842, Kubanek sole PI) “Chemically-mediated competition in the marine plankton”
- 2009-2010 Georgia Tech Focused Research Program (FRP) (Kubanek co-PI with PI Wendy Kelly) “Mining the *Streptomyces laurentii* genome for medicinal natural products”
- 2008-2010 Florida Fish and Wildlife Conservation Commission Red Tide Control & Mitigation (\$219,432 amended to \$146,238 when the Florida legislature canceled the program after the second year due to revenue shortfalls; Kubanek sole PI) “Biological control of *Karenia brevis* toxicity”
- 2004-2010 NSF Biocomplexity EF-0412674 (\$1,931,994; Kubanek 1 of 3 co-PIs with PI Terry Snell) “BE/GenEn: A biochemical, genetic, and genomic investigation of the evolution and ecology of sexual reproduction”
- 2005-2009 NIH U01-TW007401-01 (\$3,170,590; 1 of 5 co-PIs with PI Mark Hay) “Exploration, conservation, and development of marine biodiversity in Fiji”
- 2001-2008 NSF Integrative Graduate Education and Research Traineeship (IGERT) DGE-0114400 (\$3,185,400, Kubanek 1 of 4 co-PIs with PI Mark Hay) “IGERT: Signals in the Sea”: graduate training grant
- 2002-2007 NSF PECASE/CAREER OCE-0134843 (\$450,000; Kubanek sole PI) “PECASE: Chemical communication in marine ecosystems: Interactions involving harmful algae and zooplankton”
- 2005-2007 Georgia Tech Blanchard Assistant Professorship (\$70,000, Kubanek sole PI) “Aquatic chemical signaling: From biosynthesis to chemoreception”
- 2003-2005 NIH R21 (\$288,765, Kubanek 1 of 2 co-PIs with PI Nael McCarty) “A peptide inhibitor: New probe for chloride channels”
- 2003-2005 NIH R21 International Cooperative Biodiversity Group (\$403,353, Kubanek 1 of 5 co-PIs with PI Mark Hay) “Ecological leads: Drugs from reefs and microbes in Fiji”

- 2001-2003 Camille and Henry Dreyfus Foundation Environmental Chemistry Program (\$96,000, Kubanek PI with 2 co-PIs) “Chemical communication in marine ecosystems: Interactions involving harmful algae and zooplankton”
- 2000-2001 Life Sciences Research Foundation postdoctoral fellowship (\$120,000 offered; accepted \$48,333 over 1.3 years) “Toxins from harmful algal blooms: Effects on ecosystem health in Florida and the Caribbean”
- 1998-2000 Natural Sciences and Engineering Research Council of Canada postdoctoral fellowship (\$42,000) “Determining the origin and biosynthetic pathways of bioactive sponge metabolites”

Meetings and Symposia:

Invited talks at conferences:

- Kubanek J, Fernandez FM, Dove A, and several others (2013) Deciphering whale shark health using metabolomics. **Georgia Aquarium 1st Research Symposium**, Atlanta GA [*Invited speaker*].
- Kubanek J, Poulson-Ellestad KL, Prince EK, Sieg RD, Myers TL, Redshaw CH, Roy J, Byrne J, Viant M, Jones C, Fernandez FM, Naar J, Nunn B (2012) Silverstein-Simeone award lecture. War in the plankton: Sublethal and reciprocal impacts of red tide algae on competing phytoplankton. **Annual Meeting of the International Society of Chemical Ecology**, Vilnius, Lithuania [*Invited speaker*].
- Kubanek J, EP Stout, AL Lane, K Le Roch, J Prudhomme, S Cervantes, J La Clair, F Fernandez, L Nyadong, A Galhena, S France (2011) Warding off disease on coral reefs: Antimicrobial chemical cues and their future in drug discovery. **Max Planck Institute for Chemical Ecology Ringberg Symposium “The future of chemistry in chemical ecology”**, Munich, Germany [*Invited speaker*].
- Kubanek J, EP Stout, AL Lane, K Le Roch, J Prudhomme, S Cervantes, J La Clair, F Fernandez, L Nyadong, A Galhena, S France (2011) Antifungal chemical cues as leads for drug discovery. **European Conference on Marine Natural Products**, Stromstad Sweden [*Invited speaker*].
- Kubanek J, EP Stout, AL Lane, K Le Roch, J Prudhomme, S Cervantes, J La Clair, F Fernandez, L Nyadong, A Galhena, S France (2011) Antifungal chemical cues as leads for drug discovery. **American Society of Pharmacognosy annual meeting**, San Diego CA [*Invited speaker*].
- Kubanek J, AL Lane, EP Stout, L Nyadong, A Galhena, F Fernandez, K Le Roch, S Cervantes, J Prudhomme, J La Clair, S France (2011) Warding off disease on coral reefs: Antifungal chemical cues in tropical seaweeds. **International Society of Chemical Ecology annual meeting**, Burnaby BC, Canada [*Invited speaker*].
- Kubanek J (2011) Mitigation of red tide brevetoxins by competing phytoplankton. **Gordon Research Conference on Mycotoxins and Phycotoxins**, Waterville ME [*Invited speaker*].
- Kubanek J (2011) Warding off disease on coral reefs: antifungal chemical cues in tropical seaweeds. **American Association for the Advancement of Science Annual Meeting, Special session “Chemically speaking: how organisms talk to each other”**, Washington DC [*Invited speaker*]. Research featured in 113 news outlets within 48 hours of the symposium; highlighted in Science Magazine (Feb 25, 2011 issue), ScienceNOW online news, the Australian Broadcasting Corporation (Radio Australia

- broadcast April 8, 2011), the Guardian (U.K.), Le Figaro (France), and Yahoo! News among others.
- KubaneK J (2010) Chemical signaling in marine ecosystems. **American Philosophical Society Meeting**, Philadelphia, PA [*Invited speaker*].
- KubaneK J (2010) Biological control of *Karenia brevis* toxicity. **Florida Red Tide Control and Mitigation Workshop**, Sarasota, FL, USA [*Invited speaker*]
- KubaneK, J (2010) Discussion leader. **Gordon Research Conference on Marine Natural Products**, Ventura, California.
- KubaneK J, Stout EP, J LaClair, Snell TW (2009) Progesterone is a regulator of reproduction in *Brachionus manjavacas* (Rotifera). **Rotifera XII**, Berlin, Germany [*Invited speaker*]
- KubaneK J (2009) Chemical ecology leads for drug discovery. **NIH symposium on Natural Products and Biomedical Science, National Institutes of Health**, Bethesda, MD, USA [*Invited speaker*]
- KubaneK J (2008) Chemical warfare in the marine plankton, **5th World Allelopathy Congress**, Saratoga Springs, NY [*Invited speaker*]
- KubaneK J (2008) Chemical warfare in the marine plankton, **Symposium to celebrate career of Raymond J Andersen**, Vancouver, BC, Canada [*Invited speaker*]
- KubaneK J (2008) War in the plankton revisited: insurgency tactics undermine harmful algal blooms and their toxins, **Gordon Research Conference on Marine Natural Products**, Ventura, CA [*Invited speaker*]
- KubaneK J (2007) Chemically-mediated interactions among marine hosts and pathogens. **European Conference on Marine Natural Products Chemistry**, Italy. [*Invited plenary speaker on marine chemical ecology*]
- KubaneK J (2007) Natural products as chemical cues in marine environments. **Gordon Research Conference on Natural Products Chemistry**, Tilton, NH. [*Invited plenary speaker on chemical communication*]
- KubaneK J (2007) Chemically-mediated interactions among marine competitors, hosts, and parasites. **US-Japan Symposium on Marine Bioorganic Chemistry**, Salt Lake City, Utah. [*This is an invitation-only meeting of ~50 scientists chosen from the U.S. and Japan to share results and discuss the future of marine natural products chemistry*]
- KubaneK J (2007) Chemical cues in the ocean: focus on undergraduate research. **ACS Herty Medal Symposium Honoring Luis Echegoyen**, Morehouse College, Atlanta GA.
- KubaneK J, Prince E (2005) Recent advances in our understanding of allelopathy in aquatic systems. **American Society of Limnology and Oceanography**, Santiago de Compostela Spain.
- KubaneK J, Prince E, Hicks M, Lettieri L (2004) The role of red tide toxins (and other metabolites) in competitive and predator-prey interactions. **International Society for Chemical Ecology**, Ottawa, Canada.
- KubaneK J, Hicks MK, Snell T, Prince E (2004) Love and war in the plankton. **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- KubaneK, J (2003) Seaweed resistance to microbial attack: A targeted chemical defense against marine fungi. **U.S.-Japan Symposium on Marine Bioorganic Chemistry**, Osaka, Japan. [*This meeting included ~50 scientists chosen from the U.S. and Japan to share results and discuss the future of marine natural products chemistry.*]
- KubaneK, J., Whalen, K., Pawlik, J.R., Fenical, W., Naar, J., Weidner, A., Bourdelais, A.J., Baden, D.G., Steidinger, K., Flewelling, L. (2002) Multiple functions and ecological

- consequences of chemical signals in the sea. **Gordon Research Conference on Marine Natural Products**, Ventura, CA.
- KubaneK, J. (2002) Discussion leader – natural products discovery. **Gordon Research Conference on Natural Products**, Tilton, NH.
- KubaneK, J. and Wright, J.L.C. (2000) Genetic and chemical investigations of toxin biosynthesis responsible for amnesic shellfish poisoning (poster). **Annual meeting of the Life Sciences Research Foundation**, Washington, D.C.
- KubaneK, J (2000) Discussion leader. **Gordon Research Conference on Marine Natural Products**, Ventura, California.

Invited talks at universities & institutes:

- KubaneK J (2013) War in the plankton: Sublethal and reciprocal impacts of red tide microalgae on competitors. Department of Microbiology, **University of Tennessee**, Knoxville TN.
- KubaneK J (2013) War in the plankton: Sublethal and reciprocal impacts of red tide algae on competing phytoplankton. **Scripps Institution of Oceanography**, UCSD, San Diego CA.
- KubaneK J (2012) Antimicrobial chemical cues and their future in drug discovery. **Emory University, Department of Chemistry**, Miami, FL.
- KubaneK J (2012) Warding off disease on coral reefs: Antifungal chemical cues in tropical seaweeds and their future in drug discovery. **Florida International University, Department of Chemistry**, Miami, FL.
- KubaneK J (2012) Antifungal chemical cues in marine algae and their future in drug discovery. **Rothamsted Research**, Harpenden U.K.
- KubaneK J (2012) Overview and Future of Drug Discovery Innovations. **Georgia Tech IBB Bio Industry Program Symposium**, Atlanta GA.
- KubaneK J (2012) War in the plankton: Sublethal and reciprocal impacts of red tide algae on competing phytoplankton. **Sven Loven Centre for Marine Research, University of Gothenburg**, Stromstad, Sweden.
- KubaneK J (2012) Warding off disease on coral reefs: Antifungal chemical cues in tropical seaweeds and their future in drug discovery. **Georgia Tech Institute for Bioengineering and Biomedicine Breakfast Club** [*Invited speaker*].
- KubaneK J (2012) Modulation of red tide toxicity caused by ecological interactions in the marine plankton. **Centers for Disease Control and Prevention**, Atlanta GA [*Invited speaker*].
- KubaneK J (2012) Antimicrobial chemical cues and their future in drug discovery. **University of Georgia, Department of Cell Biology**, Athens GA [*Invited speaker*].
- KubaneK J (2012) Antimicrobial chemical cues and their future in drug discovery. **Georgia Health Sciences University, Department of Pharmacology and Toxicology**, Augusta GA [*Invited speaker*].
- KubaneK J (2011) Warding off disease on coral reefs: Antimicrobial chemical cues and their future in drug discovery. **Georgia State Biology Department**, Atlanta GA [*Invited speaker*].
- KubaneK J (2010) Ecological leads for drug discovery. **University of Illinois at Chicago, College of Pharmacy**, Chicago IL.
- KubaneK J (2010) Rotifers on steroids: Regulation of sexual reproduction in an ancestral invertebrate, **Georgia Tech, School of Biology Scientific Retreat**, Unicoi, GA, USA.

- KubaneK J (2010) War in the plankton: Phytoplankton insurgency tactics undermine harmful algal blooms and their toxins, **Technical University of Denmark**, Copenhagen, Denmark.
- KubaneK J (2010) Rotifers on Steroids: Regulation of Sexual Reproduction in an Ancestral Invertebrate. **University of Gothenburg, Tjörn Marine Biological Laboratory**, Sweden
- KubaneK J (2010) Ecological leads for drug discovery in Fiji. **Meeting of the MARICE working group, University of Gothenburg, Tjörn Marine Biological Laboratory**, Sweden
- KubaneK J (2010) Chemical warfare in the ocean, or, How studying marine ecology leads to drug discovery, **Georgia Tech School of Chemistry & Biochemistry**, Atlanta GA
- KubaneK J (2009) Panelist on Persisting in the Passion for Research and Publication Productivity, **ADVANCE workshop, Georgia Tech**
- KubaneK J (2009) War in the plankton: Phytoplankton insurgency tactics undermine harmful algal blooms and their toxins, **Northwest Fisheries Science Center**, Seattle, WA, USA
- KubaneK J (2009) Marine natural products: Roles in animal health and drug discovery, **Georgia Aquarium**, Atlanta, GA, USA
- KubaneK J (2009) Chemical warfare in the ocean, **Wake Forest University**, Department of Chemistry, Winston-Salem, NC, USA.
- KubaneK J (2008) Chemical cues in the ocean. **Georgia Institute of Technology**, Office of Sponsored Programs “Lunch & Learn” series for staff.
- KubaneK J (2008) Ecological insights towards discovery of bioactive natural products. **University of Texas Southwestern Medical Center at Dallas**, Dept of Biochemistry invited seminar speaker.
- KubaneK J (2007) Working with exuded and waterborne exuded cues. **National Research Center, Institute for Biomolecular Chemistry**, Naples, Italy.
- KubaneK J (2007) Chemical ecology of paralytic shellfish toxin producing dinoflagellates. **University of Gothenburg, Kristineberg Marine Station**, Sweden.
- KubaneK J (2007) Chemical cues in the ocean. **Clark-Atlanta University Biology Departmental Seminar**, Atlanta GA.
- KubaneK J (2007) Chemical cues in the ocean: the role of red tide toxins in food webs. **Texas A&M University Biology Departmental Seminar**, College Station TX.
- KubaneK J (2006) Chemical cues in the ocean: the role of red tide toxins in food webs. **Georgia State University Biology Department Graduate Seminar**, Atlanta GA
- KubaneK J (2006) Life as an academic scientist. **Georgia Tech Women’s Resource Center Graduate Student Lunch**, Atlanta GA.
- KubaneK J (2006) Chemical cues in the ocean. **Georgia Tech Library and Information Center “Research for all of us” seminar series**, Atlanta GA.
- KubaneK J (2006) Chemical cues in the ocean: Small molecules on the offense and defense. **Kennesaw State University Department of Chemistry**, Kennesaw GA.
- KubaneK J (2006) Chemical cues in the ocean: Small molecules on the offense and defense. **University of Alabama at Huntsville Department of Chemistry**, Huntsville AL.
- KubaneK J (2005) Chemical warfare in the plankton. **Bowling Green State University Department of Biology**, Bowling Green OH.
- KubaneK J (2005) Chemical cues in the ocean. **Georgia Tech Alumni Association Homecoming Weekend**, Atlanta GA.

- KubaneK J (2004) Chemical cues in the ocean: Small molecules on the offense and defense. **Cornell University Department of Chemistry and Chemical Biology**, Ithaca NY.
- KubaneK J (2004) Competitive and host-parasite interactions in marine systems: what roles do offensive and defensive chemical cues play. **University of Georgia Department of Marine Science**, Athens GA.
- KubaneK J (2004) Chemical communication in marine ecosystems. **Swarthmore College Department of Chemistry**, Swarthmore PA.
- KubaneK J (2004) Chemical communication in marine ecosystems. **Appalachian State University Department of Chemistry**, Boone NC.
- KubaneK J (2004) Chemical communication in marine ecosystems. **Mercer University Department of Chemistry**, Macon GA.
- KubaneK, J (2003) Chemical communication in the ocean: Small molecules on the offense and defense. **Winthrop University Department of Chemistry**, Winthrop SC.
- KubaneK, J (2002) Chemical diversity and ecological consequences; and 6 other lectures on marine chemical ecology. **Tjarno Marine Biological Laboratory**, Tjarno, Sweden.
- KubaneK, J (2002) Survival at Sea: Small molecules on the offense and defense. Department of Biology, **University of Alabama at Birmingham**.
- KubaneK, J (2002) Natural Antibiotics and Biotoxins: Effects on Marine Pathogens and Food Webs. School of Environmental Engineering, **Georgia Institute of Technology**, Atlanta, Georgia.
- KubaneK, J (2000) Wilderness survival for the unarmed: small molecules on the offense and defense. Department of Biochemistry, **University of Texas Southwestern Medical Center**, Dallas, Texas.
- KubaneK, J (2000) Chemical survival strategies: biosynthesis of secondary metabolites in marine molluscs. School of Chemistry and Biochemistry, **Georgia Institute of Technology**, Atlanta, Georgia.
- KubaneK, J (1999) Chemical mediation of interactions between marine organisms: biosynthesis of secondary metabolites and ecological consequences. School of Biology, **Georgia Institute of Technology**, Atlanta, Georgia.
- KubaneK, J (1999) Chemical survival strategies in marine ecosystems: biosynthesis of secondary metabolites in nudibranch molluscs. Department of Chemistry, **University of North Carolina at Wilmington**, North Carolina.
- KubaneK, J (1999) Chemical mediation of interactions between marine organisms: biosynthesis of secondary metabolites and ecological consequences. **Institute for Marine Biosciences, National Research Council**, Halifax, Nova Scotia, Canada.
- KubaneK, J (1998) Origin of secondary metabolites in nudibranch molluscs. **Nicholas School of the Environment, Duke University Marine Laboratory**, Beaufort, North Carolina.

Contributed presentations at conferences:

- Poulin R, Syhapanha K, KubaneK J (Mar 2014) The chemistry of fear: metabolomics of predator cues that mediate prey behavior. Poster presentation by R. Poulin, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Lunceford B, McCarty N, KubaneK J (Mar 2014) How do marine predators sense chemical defenses in prey? Investigating aversive chemoreception in predatory fishes. Poster presentation by B. Lunceford, **Gordon Research Conference on Marine Natural Products**, Ventura CA.

- Poulson-Ellestad K, Nunn B, Jones C, Fernandez F, Kubanek J (Feb 2014) Investigating competitive interactions between marine phytoplankton with metabolomics and proteomic approaches. Oral presentation by K. Poulson-Ellestad, **Annual meeting of the American Society of Limnology and Oceanography**, Hawaii USA.
- Jones CM, Poulson-Ellestad KL, Nunn BL, Roy J, Fernandez FM, Kubanek J (June 2014) An integrated metabolomics and proteomics approach to understand chemically mediated diatom competition. Poster presentation by C. Jones, **62nd American Society for Mass Spectrometry Conference**, Baltimore MD.
- Poulson-Ellestad K, Jones C, Roy J, Fernandez F, Nunn B, Byrne J, Viant M, Kubanek J (2013) Metabolomic analysis of harmful algal bloom allelopathy: deciphering sublethal impacts on competing phytoplankton. Oral presentation, **7th Symposium on Harmful Algae in the U.S.**, St-Petersburg FL.
- Poulson-Ellestad K, Roy J, Byrne J, Viant M, Jones C, Fernandez F, Nunn B, Kubanek J (2012) Sublethal metabolic impacts of a red tide alga on competing phytoplankton. Poster presentation by J. Roy & K. Poulson-Ellestad, **8th International Conference of the Metabolomics Society**, Washington DC.
- Alexander TS, Stout EP, Kubanek J (2012) SAR studies of a novel family of marine antibiotics. Poster presentation by T. Alexander, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Jones CM, Poulson KL, Roy JS, Kubanek J, Fernandez FM (2012) DOE optimization of variables important for the untargeted metabolomic profiling of phytoplankton exposed to allelopathic compounds. Poster presentation by C. Jones, **60th Conference of the American Society for Mass Spectrometry**, Vancouver Canada.
- Snare DJ, Fields AM, Johnston RK, Snell TW, Kubanek J (2012) Natural product drug discovery to slow the effects of aging. Poster presentation by D. Snare, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Teasdale ME, Stout EP, Cervantes S, Prudhomme J, France S, La Clair JJ, Le Roch K, Kubanek J (2012) Preclinical studies of bromophycolide A, a novel antimalarial natural product. Poster presentation by M. Teasdale, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Teasdale ME, Shearer TL, Kubanek J (2012) Bromophycoic acids: bioactive natural products from an understudied Fijian red alga of the order Gigartinales. Poster and mini-oral presentations by M. Teasdale, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Poulson-Ellestad K, Prince EK, Myers TL, Sieg RD, Kubanek J (2011) Chemical characterization of allelopathic compounds produced by the red tide dinoflagellate, *Karenia brevis*. Poster presentation by K. Poulson-Ellestad, **U.S. Harmful Algae Meeting**, Austin TX.
- Poulson-Ellestad K, Sieg RD, Kubanek J (2011) Allelopathy of a red tide dinoflagellate has context-dependent impacts on phytoplankton. Oral presentation by K. Poulson-Ellestad, **U.S. Harmful Algae Meeting**, Austin TX.
- Kubanek J, Selander E, Cervin G, Pavia H (2011) Dinoflagellate toxin production is induced by species-specific copepod cues. Oral presentation, Aquatic Sciences Meeting of the **American Society of Limnology and Oceanography**, San Juan, Puerto Rico.
- Stout EP, Hasemeyer AP, Davenport TM, Engel S, Hay ME, Brylinski M, Aalbersberg W, Kubanek J (2010) Searching for novel antibiotic scaffolds: α -Pyrone macrolides from a

- Fijian red alga. Poster presentation and invited oral presentation for PhD student Stout, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Stout EP, La Clair JJ, Snell TW, Shearer TL, Kubanek J (2010) Rotifers on steroids: Conservation of progesterone hormone function in invertebrate reproduction. Poster presentation, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Lin AS, Stout EP, Lane AL, Prudhomme J, Le Roch K, Aalbersberg W, Hay ME, Kubanek J (2010) Discovery of antimalarial drugs: Diterpene-benzoate bromophycolides. Poster presentation, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Redshaw C, Sutter D, Lim-Hing K, Heckman M, Myers TL, Naar J, Kubanek J (2009) Loss of waterborne brevetoxin on exposure to phytoplankton competitors: Insights into mechanisms of removal. Poster presentation, **5th Symposium of Harmful Algae in the U.S.**, Ocean Shores WA.
- Kubanek J, Snell TW, Pirkle C (2007) Effects of harmful algae on rotifer feeding behavior and reproduction: red tide dinoflagellate *Karenia brevis* uses chemical defense to deter grazers. Oral presentation, **Benthic Ecology Meeting**, Atlanta GA.
- Prince EK, Myers TL, Naar J, Kubanek J (2007) Competing phytoplankton undermine allelopathy of *Karenia brevis*, the red tide dinoflagellate. Oral presentation by EK Prince, **American Society of Limnology & Oceanography**, Santa Fe NM.
- Myers TL, Prince EK, Kubanek J (2007) Gulf of Mexico phytoplankton inhibit brevetoxins produced by the red tide dinoflagellate *Karenia brevis*. Poster presentation by TL Myers, **American Society of Limnology & Oceanography**, Santa Fe NM.
- Kubanek J, Prince EK, Myers T, Naar J (2006) Allelopathic interactions modulate brevetoxin production by the red tide dinoflagellate *Karenia brevis*. Oral presentation, **International Conference on Harmful Algae**, Copenhagen, Denmark.
- Prince EK, Myers T, Naar J, Kubanek J (2006) Species-specific allelopathic interactions involving the red tide dinoflagellate *Karenia brevis*. Poster presentation, **International Conference on Harmful Algae**, Copenhagen, Denmark.
- Pirkle C, Snell TW, Kubanek J (2006) Effects of harmful algae on rotifer feeding behavior and reproduction: *Karenia brevis* uses chemical defense to deter grazers. Poster presentation, **International Conference on Harmful Algae**, Copenhagen, Denmark.
- Prince EK, Myers T, Kubanek J (2006) Dynamic allelopathic interactions among marine phytoplankton. Poster presentation, **Gordon Research Conference on Marine Natural Products**, Ventura CA.
- Lane AL, Prusak AC, Hay ME, Snell TW, Giese RA, Hardcastle KI, Fairchild CR, Aalbersberg W, Raventos-Suarez C, Kubanek J (2006) Novel antineoplastic diterpene-benzoates from the Fijian red alga *Callophycus serratus*. Poster presentation by AL Lane, **Gordon Research Conference on Marine Natural Products**, Ventura CA and **American Chemical Society National Meeting**, Atlanta GA (ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 231: 270-MEDI MAR 26 2006).
- Kicklighter C, Germann MW, Kamio M, Kubanek J, Derby C (2006) Sea hare (*Aplysia californica*) defensive secretions also contain pyrimidine and other alarm cues that warn conspecifics of nearby predators. Oral presentation by C Kicklighter, **Annual Meeting of the Association for Chemoreception Sciences**, Sarasota FL (Abstract: CHEMICAL SENSES 31 (5): A6-A6 JUN 2006).
- Kamio M, Kubanek J, Derby C (2006) N-acetylglucosamino-1,5-lactone is a candidate sex pheromone in female blue crabs. Oral presentation by M Kamio, **Annual Meeting of the**

- Association for Chemoreception Sciences**, Sarasota FL (Abstract: CHEMICAL SENSES 31 (5): A82-A82 JUN 2006).
- Padove SA, Kubanek J, Hatt H, McCarty NA (2006) Reconstitution of a chemical defense signaling pathway in a heterologous system. Poster presentation by SA Padove, **Annual Meeting of the Association for Chemoreception Sciences**, Sarasota FL (Abstract: CHEMICAL SENSES 31 (5): A84-A84 JUN 2006).
- Prince E, Hicks M, Naar J, Villareal T, Kubanek J (2005) The red tide dinoflagellate *Karenia brevis* uses chemically-mediated interference competition to suppress competing phytoplankton. Oral presentation by E Prince, **American Society of Limnology and Oceanography**, Santiago de Compostela Spain.
- Young D, Prince E, Kubanek J (2005) Do some Gulf of Mexico phytoplankters release compounds to suppress the red tide dinoflagellate *Karenia brevis*? Poster presentation by D Young, **ASLO Aquatic Sciences meeting**, Salt Lake City.
- Prince E, Hicks MK, Kubanek J (2005) The red tide dinoflagellate *Karenia brevis* uses chemically-mediated interference to suppress competing phytoplankton. Poster presentation by E Prince, **ASLO Aquatic Sciences meeting**, Salt Lake City.
- Kubanek J, Prince E, Hicks MK, Naar J, Villareal T (2004) Does the Florida red tide dinoflagellate use allelopathy to out-compete other phytoplankton? Oral presentation, **International Conference on Harmful Algae**, Cape Town, South Africa.
- Prince E, Lettieri L, Kubanek J (2004) Does the Florida red tide dinoflagellate affect zooplankton fitness? Poster presentation, **International Conference on Harmful Algae**, Cape Town, South Africa.
- Prusak AC, O'Neal J, Kubanek J (2004) Chemical defenses in freshwater plants: activated or constitutive. Poster presentation, **International Society for Chemical Ecology**, Ottawa, Canada.
- Kubanek, J. Jensen, P.R., Keifer, P.A., Sullards, M.C., Collins, D.O., Fenical, W.H. (2003) A novel antifungal macrolide acts as a seaweed chemical defense against marine microbes. Poster presentation, **NAS Colloquium on Chemical Communication in a Post-Genomic World**, Irvine CA.
- Barsby T, Mobley K, Kubanek J (2003) The role of briarane diterpenes in the chemical ecology of the sea pansy, *Renilla reniformis*. Poster Presentation by T Barsby, **Annual Meeting of the American Society of Pharmacognosy**, Chapel Hill NC.
- Barsby T, Kicklighter CE, Hay ME, Kubanek J (2003) The story of one worm's struggle to survive: *Cirriiformia tentaculata* and 2-alkylpyrrole sulfamates. Poster Presentation by T Barsby, **Annual Meeting of the American Society of Pharmacognosy**, Chapel Hill NC.
- Kubanek, J. Jensen, P.R., Keifer, P.A., Sullards, M.C., Collins, D.O., Fenical, W.H. (2002) A novel antifungal macrolide acts as a seaweed chemical defense against marine microbes. Poster presentation, **Gordon Research Conference on Natural Products**, Tilton, NH.
- Kubanek, J., Whalen, K., Engel, S., Kelly, S., Henkel, T., Pawlik, J.R., Fenical, W. (2002) More bang for your buck: Multiple defensive roles of sponge triterpene glycosides. Oral presentation, **Benthic Ecology Meeting**, Orlando, FL.
- Kubanek, J., Jensen, P.R., and Fenical, W. (2001) A new defense strategy against marine pathogens and saprophytes. Oral presentation, **18th Annual Meeting of the International Society of Chemical Ecology**, Lake Tahoe, CA.
- Whalen, K., Kubanek, J., Engel, S., Kelly, S.R., and Pawlik, J.R. (2001) More bang for your buck: Multiple defensive roles of triterpene glycosides from marine sponges. Poster

- presentation, **18th Annual Meeting of the International Society of Chemical Ecology**, Lake Tahoe, CA.
- Naar, J., Kubanek, J., Bourdelais, A.J., Weidner, A., and Baden, D.G. (2001) Bioconcentration and detoxification of red tide brevetoxins by molluscs. Poster presentation, **18th Annual Meeting of the International Society of Chemical Ecology**, Lake Tahoe, CA.
- Bourdelais, A., Tomas, C.R., Naar, J., Kubanek, J., and Baden, D.G. (2000) Brevetoxins and fish kills in Delaware estuarine waters. Poster presentation, **Symposium on Harmful Marine Algae in the U.S.**, Woods Hole, MA.
- Kubanek, J., Pawlik, J.R., and Fenical, W. (2000) Triterpene glycosides defend Caribbean reef sponges from predatory fishes. Oral presentation, **Benthic Ecology Meeting**, Wilmington, North Carolina.
- Kubanek, J., Jensen, P.R., Cueto, M., and Fenical, W. (2000) An antifungal metabolite from the tropical brown alga *Lobophora variegata*: Isolation, structure elucidation, and ecological significance. Poster presentation, **Gordon Research Conference on Marine Natural Products**, Ventura, California.
- Kubanek, J., Hay, M.E., Lester, S., and Fenical, W.H. (1999) Complexity, instability, and uncertainty regarding algal polyphenolics as herbivore deterrents. Oral presentation, **Benthic Ecology Meeting**, Baton Rouge, Louisiana.
- Kubanek, J., Graziani, E.I., Andersen, R.J., and Faulkner, D.J. (1998) Evidence for the origin of skin metabolites in Northeastern Pacific Ocean dorid nudibranchs: does *de novo* biosynthesis facilitate range extension? Poster presentation, **Gordon Research Conference on Marine Natural Products**, Ventura, California.
- Kubanek, J. and Andersen, R.J. (1997) Stable isotope incorporation evidence for the *de novo* biosynthesis of secondary metabolites in the British Columbia nudibranch *Cadlina luteomarginata*. Oral presentation, **14th Annual Meeting of the International Society of Chemical Ecology**, Vancouver, B.C., Canada.
- Kubanek, J. and Andersen, R.J. (1997) Stable isotope incorporation evidence for *de novo* biosynthesis of secondary metabolites in British Columbia nudibranchs. Poster presentation, **80th Canadian Society for Chemistry Conference and Exhibition**, Windsor, Ontario, Canada.

Service – Georgia Tech:

2014:

- Associate Dean for Research, College of Sciences
 Co-Director, NSF-REU Site Program for Undergraduate Research in Aquatic Chemical Ecology
 (served as Director 2009-2012)
 Co-Director, Aquatic Chemical Ecology Center, Georgia Tech (since 2009)
 Chair, Biology Faculty Search Committee (2013-2014)
 Member, School of Biology Promotion & Tenure Committee (2012-2014)
 Member, School of Chemistry & Biochemistry Faculty Search Committee (2013-2014)
 Faculty mentor to Associate Professor Danielle Dixson in School of Biology (2013-2014)
 Member of the advisory committee for the Integrative BioSystems Institute (IBSI) (since 2008)
 Advisory board member, Women in Chemistry graduate student organization (since 2011)

2013:

Co-Director, NSF-REU Site Program for Undergraduate Research in Aquatic Chemical Ecology
(served as Director 2009-2012)
Co-Director, Aquatic Chemical Ecology Center, Georgia Tech (since 2009)
Chair, Biology Faculty Search Committee (2013-2014)
Elected Faculty Representative, School of Biology Faculty Advisory Committee (since 2011)
Member, School of Biology Promotion & Tenure Committee (since 2012)
Member, School of Chemistry & Biochemistry Faculty Search Committee (2013-2014)
Faculty mentor to Associate Professor Danielle Dixson in School of Biology (2013-2014)
Chair, Ecology Faculty Search Committee (2012-2013)
Member, College of Sciences Dean Search Committee (2012-2013)
Member, School of Chemistry & Biochemistry Services Committee (2012-2013)
Member, Sigma Xi Young Faculty Award Selection Committee (2013)
Member, Georgia Tech NESAC IGERT External Review Committee (2013)
Member of the advisory committee for the Integrative BioSystems Institute (IBSI) (since 2008)
Faculty mentor to Associate Professor Ingeborg Schmidt-Krey in School of Biology (2006-2013)
Advisory board member, Women in Chemistry graduate student organization (since 2011)

2012:

Director, NSF-REU Site Program for Undergraduate Research in Aquatic Chemical Ecology
(2009-2012)
Co-Director, Aquatic Chemical Ecology Center, Georgia Tech (since 2009)
Chair, Ecology Faculty Search Committee (2012-2013)
Elected Faculty Representative, School of Biology Faculty Advisory Committee (since 2011)
Member, College of Sciences Dean Search Committee (2012-2013)
Member, School of Biology Promotion & Tenure Committee (2012-2013)
Member, School of Chemistry & Biochemistry Services Committee (2012-2013)
Chair, School of Biology Alumni Affairs Committee (2011-2012)
Member, School of Chemistry & Biochemistry Faculty Search Committee (2011-2012)
Member of the advisory committee for the Integrative BioSystems Institute (IBSI) (since 2008)
Faculty mentor to Associate Professor Inga Schmidt-Krey in School of Biology (since 2006)
Advisory board member, Women in Chemistry graduate student organization (since 2011)

2011:

Georgia Tech Institute for Leadership and Entrepreneurship's Leadership Roundtable, participant
(November 2011).
Associate Chair for the Graduate Program, School of Biology (2010-2011)
Director, NSF-REU Site Program for Undergraduate Research in Aquatic Chemical Ecology
(since 2009)
Co-Director, Aquatic Chemical Ecology Center, Georgia Tech (since 2009)
Chair, School of Biology Alumni Affairs Committee
Chair, School of Biology teaching assignment committee (2009-2011)
Chair, Sigma Xi Faculty Best Paper Award selection committee
Elected Faculty Representative, School of Biology Faculty Advisory Committee
Member, School of Chemistry & Biochemistry Faculty Search Committee
Member, Georgia Tech Churchill Award Review Committee
Member of the advisory committee for the Integrative BioSystems Institute (IBSI) (since 2008)

Member of the College of Sciences mass spectrometry facility committee (since 2006)
Faculty mentor to Assistant Professor Inga Schmidt-Krey in School of Biology (since 2006)
Advisory board member, Women In Chemistry graduate student organization

2010:

Associate Chair for the Graduate Program, School of Biology (since August 2010)
Associate Chair for Academic Affairs, School of Biology (July 2009-March 2010)
Co-Director, Aquatic Chemical Ecology Center, Georgia Tech (since 2009)
Director, NSF-REU Site Program for Undergraduate Research in Aquatic Chemical Ecology (since 2009)
Chair, School of Biology teaching assignment committee (since 2009)
Member of the Georgia Tech Institute Undergraduate Curriculum Committee (IUCC) (2007-2010)
Member of search committee for new Provost at Georgia Tech (2009-2010)
Member of search committee for new chair of School of Chemistry & Biochemistry (2008-2010)
Member of the advisory committee for the Integrative BioSystems Institute (IBSI) (since 2008)
Member of the College of Sciences mass spectrometry facility committee (since 2006)
Faculty mentor to Assistant Professor Inga Schmidt-Krey in School of Biology (since 2006)

2009:

Associate Chair for Academic Affairs, School of Biology
Co-Director, Aquatic Chemical Ecology Center, Georgia Tech
Director, NSF-REU Site Program for Undergraduate Research in Aquatic Chemical Ecology (since 2009)
Chair, School of Biology teaching assignment committee (since 2009)
Chair, School of Biology undergraduate committee (2006-2009)
Member of the Georgia Tech Institute Undergraduate Curriculum Committee (IUCC) (since 2007)
Member of search committee for new Provost at Georgia Tech (2009-2010)
Member of search committee for new chair of School of Chemistry & Biochemistry (since 2008)
Member of search committee for new academic professionals in School of Biology (2009)
Member of the School of Chemistry and Biochemistry graduate committee (2002-2009)
Member of the School of Biology seminar committee (2008-2009)
Member of the advisory committee for the Integrative BioSystems Institute (IBSI) (since 2008)
Member of the College of Sciences mass spectrometry facility committee (since 2006)
Member of the School of Biology ad-hoc committee to improve Freshman Biology courses (2003-2009)
Faculty mentor to Assistant Professor Inga Schmidt-Krey in School of Biology (since 2006)
CoS faculty mentor to Assistant Professor Audrey Duarte (Psychology) (2008-2009)
Faculty committee member for evaluating teaching effectiveness of an Assistant Professor via DOTE procedure

2008:

Chair, School of Biology undergraduate committee (since 2006)
Member of the Georgia Tech Institute Undergraduate Curriculum Committee (IUCC) (since 2007)

Member of search committee for new chair of School of Chemistry & Biochemistry
Member of the School of Chemistry and Biochemistry graduate committee (since 2002)
Member of the School of Biology seminar committee
Member of the advisory committee for the Integrative BioSystems Institute (IBSI)
Member of search committee for ecology/evolution Academic Professional in the School of Biology
Member of the College of Sciences mass spectrometry facility committee (since 2006)
Member of the School of Biology ad-hoc committee to improve Freshman Biology courses (since 2003)
Member of committee for organization, recruitment, and training for IGERT “Signals in the Sea” program (since 2001)
Faculty mentor to Assistant Professor Todd Strelman in School of Biology (since 2005); Strelman was successfully tenure & promoted in early 2009
Faculty mentor to Assistant Professor Inga Schmidt-Krey in School of Biology (since 2006)
CoS faculty mentor to Assistant Professor Audrey Duarte (Earth and Atmospheric Sciences)
Faculty committee member for evaluating teaching effectiveness of an Assistant Professor via DOTE procedure

2007:

Chair, School of Biology undergraduate committee (since 2006)
Member of the Georgia Tech Institute Undergraduate Curriculum Committee (IUCC)
Member of the School of Chemistry and Biochemistry graduate committee (since 2002)
Member of the committee to review the chair of the School of Chemistry & Biochemistry
Member of the environmental systems microbiology faculty search committee in the School of Biology
Member of search committee for Georgia Tech Vice-Provost for International Education and Academic Initiatives
College of Sciences mass spectrometry facility committee member (since 2006)
School of Biology ad-hoc committee member to revise Freshman Biology courses (since 2003)
Faculty member of ad-hoc group for assessing candidates for College of Sciences Dean position
Member of committee for organization, recruitment, and training for IGERT “Signals in the Sea” program (since 2001)
Faculty committee member for evaluating teaching effectiveness of an Assistant Professor via DOTE procedure
Faculty mentor to Assistant Professor Todd Strelman in School of Biology (since 2005)
Faculty mentor to Assistant Professor Inga Schmidt-Krey in School of Biology (since 2006)
Georgia Tech Freshman Partner to a student peer leader and her freshman group (since 2004)

2006:

Chair, School of Biology undergraduate committee
School of Chemistry and Biochemistry graduate committee member (since 2002)
School of Biology ecology faculty search committee member
College of Sciences mass spectrometry facility committee member
School of Chemistry & Biochemistry faculty search committee member
School of Biology ad-hoc committee member to revise Freshman Biology courses (since 2003)

Member of committee for organization, recruitment, and training for IGERT “Signals in the Sea” program (since 2001)

Faculty mentor to Assistant Professor Todd Strelman in School of Biology (since 2005)

Faculty mentor to Assistant Professor Inga Schmidt-Krey in School of Biology

Georgia Tech Freshman Partner to a student peer leader and her freshman group (since 2004)

2005:

Co-organizer of Harold Nations Symposium “Frontiers in Analytical, Biochemical, and Biological Sensing in the Ocean”

School of Biology undergraduate committee member (since 2004)

School of Chemistry and Biochemistry graduate committee member (since 2002)

School of Chemistry & Biochemistry faculty search committee member

School of Biology space allocation committee member

Faculty mentor to Assistant Professor Todd Strelman in School of Biology

Member of committee for organization, recruitment, and training for IGERT “Signals in the Sea” program (since 2001)

Georgia Tech Freshman Partner to a student peer leader and her freshman group (since 2004)

2004:

School of Biology undergraduate committee member

School of Chemistry and Biochemistry graduate committee member (since 2002)

School of Civil and Environmental Engineering faculty search committee member

School of Biology ecology faculty search committee member

School of Biology ad-hoc committee member to revise Freshman Biology courses (since 2003)

Member of committee for organization, recruitment, and training for IGERT “Signals in the Sea” program (since 2001)

Georgia Tech Freshman Partner to a student peer leader and her freshman group

2003:

Co-organizer of First Annual School of Biology scientific retreat

School of Chemistry and Biochemistry graduate committee member (since 2002)

School of Biology ad-hoc committee member to revise Freshman Biology courses

Member of committee for organization, recruitment, and training for IGERT “Signals in the Sea” program (since 2001)

2002:

School of Biology departmental seminar organizer

School of Chemistry and Biochemistry graduate committee member

Member of committee for organization, recruitment, and training for IGERT “Signals in the Sea” program (since 2001)

2001:

Member of committee for organization, recruitment, and training for IGERT “Signals in the Sea” program

School of Chemistry and Biochemistry bio-analytical faculty recruiting committee

Service Outside of Georgia Tech:

Conference Organizing:

Elected future Chair of Gordon Research Conference on Marine Natural Products by conferees at GRC meeting in March 2012; serving as Vice-chair in 2014 and Chair in 2016.

Member of the national steering committee for U.S. Harmful Algal Bloom Symposium, November 2009

Member of the local organizing committee for the Benthic Ecology Meetings, Atlanta GA, March 2007

Professional Societies:

Elected Councilor of the International Society of Chemical Ecology (2014-2017).

Professional/Government Workshops:

Invited member of two-day NIH workshop on the future of natural products chemistry and biomedical science (April 2009).

Invited member of three-day State of Florida workshop on red tide control and mitigation (February 2010).

Membership on Advisory Committees:

Member of the scientific advisory committee for the Tjarno Marine Biological Laboratory (Univ. Gothenburg, Sweden) program in marine chemical ecology (2005).

Member of the National Steering Committee for the 5th Symposium on Harmful Algae held November 2009 in Ocean Shores, Washington.

Member of the Scientific Advisory Board for the Max Planck Institute for Chemical Ecology, Jena, Germany (2012-2017).

Formal Partner and Member of the Steering Committee for the Centre for Marine Chemical Ecology at the University of Gothenburg, Sweden (since 2012).

Opponent at Ph.D. defense of Swedish student:

In May 2007, I acted as “opponent” at the Ph.D. defense of Erik Selander of the University of Gothenburg, Department of Marine Ecology. Title of thesis: “Chemical ecology of paralytic shellfish toxin producing dinoflagellates”.

Membership in Collaborative Center:

Faculty member of the Center for Behavioral Neuroscience (involving Emory, Georgia Tech, Georgia State and 5 other institutions in the Atlanta area), 2003-present.

Peer-Reviewing:

Editorial board member of:

Natural Product Reports published by the Royal Society of Chemistry (U.K), impact factor 10.2 (January 2014-December 2016).

Marine Drugs published by MDPI (Molecular Diversity Preservation International), Basel, Switzerland, impact factor 3.85 (2009-present)

Journal of Chemical Ecology published by SpringerLink, impact factor 2.66 (2011-present)

Manuscripts reviewed (~25 per year total) for:

American Zoologist, Applied and Environmental Microbiology, Aquatic Microbial Ecology, Archiv fuer Hydrobiologie, Biological Bulletin, Bioorganic and Medicinal Chemistry, Bioorganic and Medicinal Chemistry Letters, Brazilian Journal of Oceanography, Canadian Journal of Chemistry, ChemBioChem, Chemoecology, Chinese Journal of Oceanology and Limnology, Comparative Biochemistry & Physiology, Coral Reefs, Ecology, FEMS Microbiology & Ecology, Harmful Algae, Invertebrate Biology, Journal of the American Chemical Society, Journal of the American Water Resources Association, Journal of Chemical Ecology, Journal of Experimental Biology, Journal of Experimental Marine Biology and Ecology, Journal of Ecology, Journal of Experimental Marine Biology and Ecology, Journal of Fish Biology, Journal of Molecular Structure, Journal of Natural Products, Journal of Organic Chemistry, Journal of Phycology, Limnology & Oceanography, Limnology & Oceanography Methods, Marine Biology, Marine Chemistry, Marine Drugs, Marine Ecology Progress Series, Marine & Freshwater Research, Oecologia, Organic Letters, Natural Product Letters, Nature, Nature Chemistry, Phycologia, Phytochemical Analysis, Phytochemistry, Phytochemistry Reviews, PLoS One, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B, Tetrahedron, Toxicol, Trends in Ecology and Evolution, *Springer-Verlag* book “Ecology of Harmful Algae”, *CRC Press* book “Marine Chemical Ecology”, *Springer* book “Algal Chemical Ecology”, *Garland Science Publishing* book “Chemical Biology”.

Guest editor for a PNAS manuscript (April 2007).

Proposals reviewed for:

NSF, NOAA National Undersea Research Program, EPA/NOAA/NSF ECOHAB program, National Sea Grant, California Sea Grant, Rhode Island Sea Grant, National Marine Fisheries Service Southeast Regional Office Saltsonstall-Kennedy grant program, American Chemical Society PRF, Natural Environment Research Council of the U.K., Research Corporation for Science Advancement, Royal Society of the U.K.

Member of funding evaluation panel for EPA/NOAA/NSF ECOHAB program, April 2006.

Member of funding evaluation panel for NSF CAREER (Ocean Sciences), November 2007.

Member of funding evaluation panel for California Sea Grant, 2008, 2009, 2011.

Member of funding evaluation panel for NSF IOS (Interactive Organismal Systems), Oct 2010.

Ad hoc member of NIH Synthetic and Biological Chemistry B study section, Feb 2013.

Workshops designed and taught:

I co-designed and co-taught a one-week lecture, lab, and field workshop on marine chemical ecology, taught to 15 graduate students and 2 faculty members at the Tjarno Marine Biological Laboratory (Univ. of Gothenburg, Sweden) in May 2002.

I co-designed and co-taught another, similar 2-day workshop to 12 Fijian and Pacific Islander students at the University of the South Pacific in June 2004.

I designed and co-taught a one-week workshop on the natural products isolation for 22 graduate students, postdocs, and faculty at the Marine Biological Laboratory (Univ. of Gothenburg, Sweden), in June 2005.

I was an invited teacher at a one-week European Union-funded workshop on chemical approaches for marine ecology research, for 20 graduate students from around Europe, at the Italian National Research Center, in September 2007.

Honors, Awards, and Recognitions:

- 2013 Elected Councilor of the International Society of Chemical Ecology
- 2012 Elected Fellow of the American Association for the Advancement of Science (AAAS)
- 2012 Silverstein-Simeone Award of the International Society of Chemical Ecology
- 2011 Four "Thank a Teacher" Certificates from former organic chemistry students via the Center for Enhancement of Teaching and Learning, Georgia Tech
- 2010 Sigma Xi Best Faculty Paper Award (Kubaneck, Fernandez, Hay) for PNAS 2009 research article on surface imaging of antifungal chemical defenses in a marine alga
- 2010 Waernska Guest Professorship, University of Gothenburg, Sweden
- 2009 Georgia Tech Faculty Woman of Distinction Award
- 2009 Georgia Tech College of Sciences Faculty Mentor Award
- 2007 Hesburgh Teaching Fellow (Georgia Tech)
- 2005 Blanchard Assistant Professorship (Georgia Tech)
- 2004 PECASE (Presidential Early Career Award for Scientists and Engineers)
- 2002 National Science Foundation (NSF) CAREER award
- 2000 Life Sciences Research Foundation (LSRF) postdoctoral award
- 2000 NIH National Research Service Award (NRSA) (declined by me to accept LSRF)
- 1998-2000 Natural Sciences and Engineering Research Council (NSERC) Canada postdoctoral award
- 1997-1998 University of British Columbia graduate fellowship
- 1993-1998 University of British Columbia Laird research fellowship
- 1993-1997 Natural Sciences and Engineering Research Council (NSERC) Canada "1967" Science and Engineering scholarship for post-graduate studies
- 1993 University of British Columbia Charles A. MacDowell fellowship
- 1991 Queen's University medal in chemistry
- 1990 NSERC undergraduate research award
- 1990 Cyanamid Canada Inc. research award
- 1990 Canadian Society for Chemistry award
- 1989-1991 Queen's University Senator Frank Carrel upper year scholarship
- 1989 Queen's University Susan Near prize in chemistry
- 1989 Queen's University Dr. W.H. Nichols prize in chemistry
- 1988-1991 Queen's University Senator Frank Carrel honor scholarship
- 1988-1991 Noranda Group scholarship
- 1988 International Chemistry Olympiad in Finland; a Bronze medal winner

Membership in Professional and Honor Societies:

American Association for the Advancement of Science
American Chemical Society
American Society of Limnology and Oceanography
International Society of Chemical Ecology
International Society for the Study of Harmful Algae
American Association of Underwater Science

Graduate and Undergraduate Students Supervised:

Past Ph.D. students for whom I served as primary advisor or co-advisor:

- Kelsey Poulson-Ellestad Ph.D. student (Georgia Tech Biology, graduated 2013)
Thesis title: “Sublethal interactions between the harmful alga *Karenia brevis* and its competitors”
Georgia Tech Presidential Fellow 2007-2010
NSF IGERT fellow 2007-2008
Advanced to candidacy fall 2009
GT Tech for Teaching program 2011-2012
Now postdoctoral researcher at Woods Hole Oceanographic Institution
- Robert Drew Sieg Ph.D. student (Georgia Tech Biology, graduated 2013)
Thesis title: “Chemically mediated interactions in salt marshes: Mechanisms that plant communities use to deter closely associated herbivores and pathogens”
NSF IGERT fellow 2007-2008
Advanced to candidacy summer 2009
Biology GAANN fellow 2010-2012
ASLO Best Student Poster Award 2011
Beginning faculty position in biology at Middle Tennessee State University in August 2013
- Elizabeth Paige Stout Ph.D. student (Georgia Tech Chemistry, graduated 2010)
Thesis title: “Discovery and synthesis of bioactive natural probes from marine systems”
GAANN Drug Discovery fellow 2006-7 and 2008-9
Advanced to candidacy spring 2007
NSF STEP teaching fellow 2007-2008
Invited to give mini-oral presentation at Gordon Conference on Marine Natural Products, Feb 2008
Georgia Tech Chemistry Graduate Research Symposium prize winner: 2nd place (among 5 nominated speakers from a student population of >200)
Invited to give full oral presentation at Gordon Conference on Marine Natural Products, Mar 2010
Nominee of the School of Chemistry & Biochemistry for Sigma Xi Best Thesis Award, 2011
Currently NIH-NRSA postdoctoral fellow at the University of California – San Diego with Ted Molinski
- Staci Padove Cohen Ph.D. student co-advised by me; primary advisor N. McCarty (Georgia Tech Biology, graduated 2009)
Thesis title: “Functional identification and initial characterization of a fish co-receptor involved in aversive signaling”
NSF-IGERT fellow 2004-2008
Award for Best Student Poster, Georgia Tech Biology retreat 2004
Currently postdoctoral fellow at UNC-Chapel Hill
- Amy Lane Ph.D. student (Georgia Tech Chemistry, graduated 2008)
Thesis title: “Marine natural products as antimicrobial chemical defenses and sources of potential drugs”

Georgia Tech Presidential Fellow
 NSF-IGERT fellow 2004-2008
 GAANN Drug Discovery fellow 2005-2006
 Sam Nunn International Policy Fellow 2007-2008
 Invited to give mini-oral presentation at Gordon Conference on Marine Natural Products, Feb 2008
 NIH Postdoctoral fellow at Scripps Institution of Oceanography (UCSD) with Prof. Bradley Moore, with Institute of Research & Academic Career Development Award (was also offered NIH-NRSA F32 fellowship which was turned down in favor of other NIH fellowship) (2008-2010)
 Currently tenure-track Assistant Professor in the Department of Chemistry, University of North Florida

Emily Prince

Ph.D. student (Georgia Tech Biology, graduated 2008)
 Thesis title: “Chemically-Mediated Interactions in the Plankton: Defenses against Grazing and Competitors by a Red Tide Dinoflagellate”
 NSF-IGERT fellow 2002-2008
 NSF-STEP teaching fellow 2005-2006
 NSF International Postdoctoral Fellow at University of Jena, Germany, with Prof. Georg Pohnert (2008-2010)
 Currently tenure-track Assistant Professor in the Department of Biology, Georgia Regents University – Summerville campus (Augusta, GA).

Past M.S. students for whom I served as primary advisor or co-advisor:

David Snare M.S. student (Georgia Tech Chemistry, graduated 2013)
 Thesis title: “Mechanistic evaluation of red algal extracts that slow aging”
 GAANN Drug Discovery fellow 2011-2012

Melanie Heckman M.S. student co-advised by me; primary advisor M. Hay (Georgia Tech Biology, graduated 2011)
 Thesis title: “A test of optimal defense theory vs. the growth-differentiation balance hypothesis as predictors of seaweed palatability and defenses”
 Georgia Tech Presidential Fellow 2008-2011

Melissa Hicks M.S. student (Georgia Tech Biology, graduated 2005)
 Thesis title: “Chemical Cues Affecting Susceptibility of Gorgonian Corals to Fungal Infection”
 Georgia Tech Presidential Fellow 2003
 Award for Best Student Talk, BGSA symposium 2004

Anne Prusak M.S. student (Georgia Tech Biology, graduated 2004)
 Thesis title: “Activated and Constitutive Chemical Defenses in Freshwater Plants”
 NSF-IGERT fellow 2002-2003
 Currently working as Associate Consultant at Environ International Corp (Portland, ME)

Graduate students for whom I currently serve as primary advisor or co-advisor:

Troy Alexander Ph.D. student (Georgia Tech Chemistry, 2010-present)

Advanced to candidacy spring 2012
 Winner, Best 2nd Year Graduate Student Oral presentation, 2011

Remington Poulin Ph.D. student (Georgia Tech Chemistry, 2012-present)
 GAANN Fellow, 2013-2014
 School of Chemistry & Biochemistry Outstanding Graduate Teaching
 Assistant Award (2013)

Blair Lunceford Ph.D. student (Georgia Tech Chemistry, 2013-present)

Current graduate students on whose thesis committees I serve:

Christina Jones Ph.D. student (Georgia Tech Chemistry, 2010-present)
 Tyrone Wells Ph.D. student (Georgia Tech Chemistry, 2010-present)
 Larisa Pender-Healy M.S. student (Georgia Tech Biology, 2010-present)
 Daisy Bourassa Ph.D. student (Georgia Tech Chemistry, 2011-present)
 Cody Clements Ph.D. student (Georgia Tech Biology, 2012-present)
 Rayaj Ahamed Ph.D. student (Georgia Tech Chemistry, 2012-present)
 Hiroyuki Ichikawa Ph.D. student (Georgia Tech Chemistry, 2012-present)
 Shaghayegh Fathi Ph.D. student (Georgia Tech Chemistry, 2012-present)
 Shaobo Pan Ph.D. student (Georgia Tech Paper Science, 2013-present)
 Kathryn Nagel M.S. student (Georgia Tech Biology, 2013-present)
 Stephen Sarria Ph.D. student (Georgia Tech Chemistry, 2013-present)
 Feifei Zhang Ph.D. student (Georgia Tech Chemistry, 2013-present)
 Xiaoling Zang Ph.D. student (Georgia Tech Chemistry, 2013-present)
 Caleb Harris Ph.D. student (Georgia Tech Chemistry, 2013-present)
 George Ward Ph.D. student (Georgia Tech Chemistry, 2013-present)
 Deanna Beatty Ph.D. student (Georgia Tech Biology, 2013-present)
 Brett Fellows Ph.D. student (Georgia Tech Chemistry, 2013-present)
 Monica Rojas-Pena Ph.D. student (Georgia Tech Biology, 2013-present)

Non-thesis Masters students who performed research in my group:

Jessie Roy Georgia Tech Biology, 2013
 Georgia Tech Presidential Fellow 2011-2013

Benjamin Smith Georgia Tech Chemistry, 2009
 Now Biosafety Specialist at Oregon Health & Science University

Tracey Myers Georgia Tech Chemistry, 2009-2010
 Now at Centers for Disease Control & Prevention

Past graduate students on whose thesis committees I served:

James Day Ph.D. student (Georgia Tech CEE, graduated 2002)
 Cynthia Kicklighter Ph.D. student (Georgia Tech Biology, graduated 2003)
 Victoria Mariani Ph.D. student (Georgia Tech Chemistry, graduated 2003)
 Chiko Umeweni M.S. student (Georgia Tech Chemistry, graduated 2004)
 Daniel Pisut M.S. student (Georgia Tech Biology, graduated 2004)
 Beth Brewster Ph.D. student (Georgia Tech Chemistry, graduated 2004)
 Theresa Chamblee Ph.D. student (Georgia Tech Chemistry, graduated 2004)
 Suazette Reid M.S. student (Georgia Tech Chemistry, graduated 2004)
 Jeremy Long Ph.D. student (Georgia Tech Biology, graduated 2004)

Joshua Aronson	Ph.D. student (Georgia Tech Chemistry, graduated 2004)
Mandi Murph	Ph.D. student (Georgia Tech Biology, graduated 2005)
John Parker	Ph.D. student (Georgia Tech Biology, graduated 2005)
Deron Burkepile	Ph.D. student (Georgia Tech Biology, graduated 2006)
Matthew Fuller	Ph.D. student (Emory University, graduated 2006)
John Cody	Ph.D. student (Georgia Tech Chemistry, graduated 2006)
Warren Gerhardt	Ph.D. student (Georgia Tech Chemistry, graduated 2007)
Erik Selander	Ph.D. student (University of Gothenburg, graduated 2007)
Terry Watt	Ph.D. student (Georgia Tech Chemistry, graduated 2007)
Kristen Whalen	Ph.D. student (MIT Marine Science, graduated 2008)
Chris Thompson	Ph.D. student (Georgia Tech Biology, graduated 2008)
Jennifer Jackson	Ph.D. student (Georgia Tech Biology, graduated 2009)
Kimberly Arrowood	M.S. student (Georgia Tech Chemistry, graduated 2009)
Ying Liu	Ph.D. student (Georgia Tech Biology, graduated 2009)
Karen Meloy	M.S. student (Georgia Tech Chemistry, graduated 2010)
Nicole Marotta	Ph.D. student (Georgia Tech Chemistry, graduated 2010)
Zachary Marion	M.S. student (Georgia Tech Biology, graduated 2010)
Rachel Horak	Ph.D. student (Georgia Tech Biology, graduated 2010)
Dana Hostetler	M.S. student (Georgia Tech Chemistry, graduated 2011)
Miranda Watts	Ph.D. student (Georgia Tech Biology, graduated 2011)
Jennifer Hill	Ph.D. student (Georgia Tech Biology, graduated 2011)
Bassem Hallac	Ph.D. student (Georgia Tech Chemistry, graduated 2011)
Karen Bondoc	M.Sc. student (University of the Philippines Marine Science, graduated 2012; I served as external reader)
Douglas Rasher	Ph.D. student (Georgia Tech Biology, graduated 2012)
Hilary Smith	Ph.D. student (Georgia Tech Biology, graduated 2012)
Rachel Lasley	Ph.D. student (Georgia Tech Biology, graduated 2012)
Katy Roege Rommel	Ph.D. student (Georgia Tech Chemistry, graduated 2012)
Dadahashab Patil	Ph.D. student (Georgia Tech Chemistry, graduated 2012)
Shandra Justicia Leon	Ph.D. student (Georgia Tech Biology, graduated 2012)
Lien Phun	Ph.D. student (Georgia Tech Chemistry, graduated 2013)

Undergraduate students who have performed research in my group:

49. Maeve Nagle	Georgia Tech Chemistry major, 2014
48. Nellie Ochs	Emory University Chemistry summer REU student at Georgia Tech, 2013
47. Skyler Brennan	Georgia Tech Biology major, 2013
46. Kristy Syhapanha	Georgia Tech Biology major, 2013-2014
45. David Brumley	Georgia Tech Biochemistry major, 2012-2014 Presidential Undergraduate Research Award 2013
44. Haley Arnold	University of Buffalo summer REU student at Georgia Tech, 2012
43. Justin Williams	Grady High School junior, 2012
42. Elizabeth McMillan	Georgia Tech Biology major, 2011-2013 Presidential Undergraduate Research Award 2012 Best Oral Presentation, Undergraduate Research Kaleidoscope, Georgia Tech 2013
41. Divya Natarajan	Georgia Tech Biology major, 2011-2012

40. Shanti Bhatia Georgia Tech Biochemistry major, 2010-2013
[Starting M.D. program at Georgia Health Sciences Univ in fall 2013]
39. Naphun Nimmanononda Georgia Tech Biochemistry major, 2011-2012
38. Devi Morrison Georgia Tech Biochemistry major, 2010
37. Vicky Ortiz University of Puerto Rico summer REU student at Georgia Tech, 2010
ASLO-REU undergrad conference travel awardee, 2011
Society of Wetland Scientists mentoring award and travel awardee and
honorable mention for best student talk, 2011
36. Freddie Izarry-Delgado University of Puerto Rico summer REU student at Georgia Tech,
2010
35. Kevin Wolfe Georgia Tech Biology major, 2009-2012
[Now in PhD program at Texas A&M Corpus Christi]
34. Drew Willey Georgia Tech Biology major, 2009-2012
[Starting M.D. program at Georgia Health Sciences Univ in fall 2013]
33. Amy Kendig Georgia Tech Biology major, 2009-2011
Presidential Undergraduate Research Award, 2010
Research Option, Honors Research Thesis
Georgia Tech rep to the ACC Meeting of the Minds Conference 2011
[Now an IGERT PhD fellow at the University of Minnesota]
32. Bora Kang Union Grove High School student (MacDonough, GA), 2009
31. Michael Tjahjadi Georgia Tech Biology major, 2008-2010
Presidential Undergraduate Research Award, 2009
[now in MD program at Medical College of Georgia]
30. Krista Lim-Hing Georgia Tech Biology major and REU student (Quantitative Systems
Biology program), 2008-9
Research Option, Honors Research Thesis
College of Sciences Outstanding Undergraduate Researcher Award 2009
College of Sciences, Winner, Best Student Poster 2009
[now in MD program at Medical College of Georgia]
29. Denise Sutter Georgia Tech Biology major, 2008-9
Research Option, Honors Research Thesis
Presidential Undergraduate Research Award 2009
[now in D. Pharm. Program at Auburn University]
28. Angela Wang Georgia Tech Biology major, 2007-9
[now in MD program at Medical College of Georgia]
27. Adam Hasemeyer Temple University summer REU student at Georgia Tech, 2008
Winner, McKnight Prize in Chemistry for his REU research
[now in PhD program at Rutgers University]
26. Laurlynn Mular Georgia Tech Biology major, 2007-8
Entering Georgia Tech M.S. in Prosthetics & Orthotics in fall 2012
25. Ellica Moore Georgia Tech Biology major, 2007-8
[now in MD program at Medical College of Georgia]
24. Sarah Paglioni Georgia Tech Biology major, 2007
[now in PhD program at Harvard University]
23. Rashaad Pressley Georgia Tech Biology major, 2007
22. Elizabeth Drenkard Cornell summer REU student at Georgia Tech, 2007

- [now in PhD program at MIT-WHOI]
21. Leah Clark Georgia Tech Biology major, 2006-7
 20. Jenny Huang Cornell summer REU student at Georgia Tech, 2006
[now in PhD in Biomedical Sciences at UCSD with Alexander Hoffman studying innate immunity]
 19. Tanya Pinder NCA&T summer REU student at Georgia Tech, 2006
First place for oral presentation based upon her research in Kubanek lab, 64th Annual Joint Meeting of Beta Kappa Chi/National Institutes of Science
[now in PhD Chemistry program at Wake Forest University]
 18. Christen Pirkle Georgia Tech Biology major, 2006-7
Research Option, Honors Research Thesis
[now in MD program at Medical College of Georgia]
 17. Michelle Baglia Georgia Tech Biology major, 2005-6
[completed MS program in Chronic Disease Epidemiology at Yale University and starting PhD in cancer epidemiology at Vanderbilt in fall 2012]
 16. Katie McCurdy University of Georgia summer REU student at Georgia Tech, 2005-6
UGA Undergraduate Research Thesis based on work in my lab
[now at Emory Medical School]
 15. Rachel Giese Georgia Tech Chemistry major, 2004-5
[now in medical school at University of Texas Health Science Center at San Antonio]
 14. Lowrie Ward Georgia Tech Biology major, 2004-5
Presidential Undergraduate Research Award
[now a health coordinator at Florida Department of Health]
 13. Doug Young UC-Davis summer REU student at Georgia Tech, 2004
REU student poster award, ASLO conference 2005
[now in PhD chemistry program at University of Oregon]
 12. Ankur Fadia Georgia Tech Chemistry major, 2004
 11. Regina Lee Georgia Tech Biology major, 2004
[now in MD program at Medical College of Georgia]
 10. Jennifer O'Neal GIT Chemistry REU summer program 2003, Winthrop U Chem major
[now in PhD chemistry program at University of South Carolina]
 9. Liliana Lettieri Georgia Tech Biology major, 2003
[now in Georgia Tech PhD program]
 8. Andrea Liatis Georgia Tech Biology major and Robinson fellow, 2003
[now in Emory University PhD program in neuroscience]
 7. Melissa Hicks Georgia Tech Biology major, 2003
 6. Lauren Burns Georgia Tech Biology major, 2002-3
 5. Kelly Livingston Georgia Tech Biology major, 2002
 4. John Daula Georgia Tech Chemistry major, 2002
 3. Michelle Hoogstra Georgia Tech Biology major and HHMI fellow, 2001-3
[now at Medical College of Georgia in doctorate program in physical therapy]
 2. Matthew Smith GIT summer researcher 2002, UNCW Biology major

1. Kristen Whalen GIT researcher 2001, UNCW Biology major
[MIT PhD graduate 2008 with NSF graduate fellowship, then NSF
postdoc at UC Santa Barbara and postdoc at Scripps Institution of
Oceanography]

Postdoctoral Fellows Supervised:

- Dr. Dwight Collins 2002-2004, Dreyfus Fellow
[now co-founder and Director of Jamaica Scientific Research
Institute and Visiting Lecturer at the University of the West Indies]
- Dr. Renwang Jiang 2006-2007
[now Assistant Professor of Natural Products Chemistry
at Jinan University at Guangzhou, China]
- Dr. Clare Redshaw 2008-2009
[now Lecturer of Environmental Toxicology at University of
Plymouth and European Centre for Environment and Human
Health, UK]
- Dr. An-Shen (Anderson) Lin 2008-2010
Invited to give mini-oral presentation at Gordon Conference on
Marine Natural Products, Mar 2010
[now Senior Specialist at Efficient Pharma Management
Corporation in Taipei, Taiwan]
- Dr. Margaret Teasdale Jan. 2011- Aug. 2013
Invited to give mini-oral presentation at Gordon Conference on
Marine Natural Products, Feb 2012

Visiting Faculty Members in Kubanek Group:

- Professor Al Panu 2005-2006 Georgia Tech Faculty Development Award
Kennesaw State University