

CURRICULUM VITAE

Bill J. Baker

Department of Chemistry Office: (813) 974-1967
University of South Florida FAX: (813) 974-1733
4202 E. Fowler Ave., CHE 205 Home: (813) 994-2938
Tampa, FL 33620-5250 Email: bjbaker@usf.edu

Education:

1982 B.S., Chemistry, California Polytechnic State University, San Luis Obispo
1986 Ph.D., Chemistry, marine natural products, University of Hawaii with Paul Scheuer
1988-89 Postdoc, Chemistry, biosynthesis, Rice University with Ron Parry
1989-90 Postdoc, Chemistry, biosynthesis, Stanford University with Carl Djerassi

Positions Held:

1982-1983 Teaching Assistant, Chemistry Department, University of Hawaii
1983-1986 Research Assistant, Chemistry Department, University of Hawaii
1987-1988 Postdoctoral Research Fellow, Department of Chemistry, Rice University
1988-1989 Postdoctoral Research Fellow, Department of Chemistry, Stanford University
1990-1995 Assistant Professor of Chemistry, Department of Chemistry, Florida Institute of Technology
1995-2001 Associate Professor of Chemistry, Department of Chemistry, Florida Institute of Technology
2001 Professor of Chemistry, Department of Chemistry, Florida Institute of Technology
2001-2007 Associate Professor of Chemistry, Department of Chemistry, University of South Florida
2007- Professor of Chemistry, Department of Chemistry, University of South Florida
2009-2010 Director, Center for Drug Design, Discovery and Delivery, University of South Florida
2010- Director, Center for Drug Discovery and Innovation, University of South Florida

Other Experience and Professional Memberships (selected):

1993-2003 Member, Ad hoc, NIH Study Section, SSS-L/BCMB-L (SBIR Drug Discovery, Development)
1995 Member, Ad hoc, NIH Study Section, Medicinal Chemistry A
1998 Member, Ad hoc, NIH Study Section, Bioactive Natural Products
1999 Member, NIH Study Section, Cancer Drug Discovery: Diversity generation and smart assays
2000, 2008 Station Science Leader, Palmer Station, Antarctica
2002- Member, H. Lee Moffitt Cancer Center and Research Institute, Drug Discovery Program
2002-2004 Chair-elect, Chair, Past Chair, American Chemical Society, Tampa Bay Section
2002-2006 Member, Executive Committee, American Society of Pharmacognosy
2004-2010 Member, Ad hoc, NIH Study Section, Drug Discovery, Chemoprevention, and Targeted Therapy
2004-2006 Member, Palmer Area Users Group
2006-2009 Vice President, President, Past President, American Society of Pharmacognosy
2006-2010 Chair, Palmer Area Users Group
2007- Member, Florida Center of Excellence, Center for Drug Discovery and Innovation (formerly Biomolecular Identification and Targeted Therapeutics)
2007- Editorial Advisory Board, Research Letters in Organic Chemistry/Organic Chemistry International

Research Interests:

Analysis of secondary metabolites from marine invertebrates, macroalgae and microorganisms, including chromatographic and spectroscopic characterization; drug discovery, including tropical diseases (malaria, leishmaniasis, dengue, influenza, river blindness), infective, proliferative and neurodegenerative diseases and multi-drug resistance; marine biotechnology; chemical ecology of marine organisms; generation of chemical diversity; biosynthesis of marine natural products; synthesis of marine natural products; agrochemical applications of marine natural products.

Awards and Honors:

1984	Outstanding Teaching Assistant, Hawaii Section of the American Chemical Society
1985	Departmental Research Fellowship, University of Hawaii Chemistry Department
1985	University of Hawaii Graduate Student Organization Travel Grant
1992	Oak Ridge National Laboratories Junior Faculty Enhancement Award
1998	Service award from Tetrahedron publications
1998	US Board of Geographic Names designated "Baker Point", Antarctica
2010	USF's Ambassadors 'Apple Polishing' Award for student mentoring

Memberships in Honor and Professional Societies:

American Chemical Society
American Association for the Advancement of Science
American Society of Pharmacognosy
Sigma Xi

Professional Activities:**Society Offices and Committee Membership:**

American Society of Pharmacognosy, Honorary Member Committee, 7/10-current
American Society of Pharmacognosy, Meeting Committee, 7/09-current
American Society of Pharmacognosy, Vice President, President, Past President, 7/06-7/09
American Society of Pharmacognosy, Executive Committee, 7/03-7/06
American Chemical Society, Tampa Bay Section, Chair-elect, Chair, Past Chair, 1/02-1/04
American Society of Pharmacognosy, 39th Annual Meeting Committee, Chair, 7/95-7/99
American Society of Pharmacognosy Awards Committee, 6/91-7/97
American Chemical Society, Orlando Section, Awards Committee Chair, 6/90-12/94
Sigma Xi, Florida Tech, Secretary, 6/92-8/96
Paul J. Scheuer Award Steering Committee, Chair, 2/90-current

Advisory Groups, Panels and Workshops (Invited or Elected):

National Science Foundation, Palmer Station Logistics Workshop, 2/10
Palmer Area Users Group, Ad hoc, 1998; member 2004-2006; Chair 2006-2010
McMurdo Area Users Group, member 1997-2000
Florida Sea Grant Marine Biotechnology Advisory Panel, 1996-2000
National Science Foundation, Workshop on Winter Research, 10/99
National Research Council, Committee on Antarctic Policy and Science, 6/93

Study Section Participation, National Institutes of Health (selected service):

Drug Discovery, Chemoprevention, and Targeted Therapy (P01 site visit, Mar 2004; P01 study section, Oct 2009, May 2010)
Cancer Drug Discovery: Diversity Generation and Smart Assays (May 1999)
Medicinal Chemistry (Ad hoc, Mar 1995)

Professional Activities, continued:

Study Section Participation, National Institutes of Health (continued):

- Bioactive Natural Products (Ad hoc, June 1998)
- International Cooperative Biodiversity Group Program (Mar 1998)
- Small Business Innovative Research Program (Ad hoc, 1993-2006)

Reviewer activities:

Granting Agencies:

- National Institutes of Health Minority Biomedical Research Support
- National Science Foundation, Experimental Program To Stimulate Competitive Research (EPSCoR),
Biological Oceanography, Environmental Physiology, Chemistry
- Research Corporation
- National Oceanographic and Atmospheric Administration
- Petroleum Research Fund
- Australian National University
- State Sea Grant Programs: Maryland, California, Oregon, New York, Alabama/Mississippi
- National Research Foundation (South Africa)
- Chilean National Commission for Science and Technology Research

Journals:

- Antarctic Science
- Bioorganic and Medicinal Chemistry Letters
- Bioorganic and Medicinal Chemistry
- Cellular and Molecular Life Sciences
- Journal of the American Chemical Society
- Journal of Chemical Ecology
- Journal of Chemical Education
- Journal of Experimental Marine Biology
- Journal of Natural Products
- Journal of Organic Chemistry
- Journal of Medicinal Chemistry
- Lipids
- Marine Ecology Progress Series
- Organic Chemistry International
- Organic Letters
- Phycologia
- Phytochemistry
- Prostaglandins
- Research Letters in Organic Chemistry
- Steroids
- Tetrahedron Asymmetry
- Tetrahedron Letters
- Tetrahedron

Outside Reviewer, PhD Dissertations:

- Australian National University
- Griffith University

University and Department Service:

University (Research) Diving Control Board (Member, 2001-current)
University (Graduate School) BS/MS Biotechnology Advisory Committee (Member, 2006-2008)
University (Florida Center of Excellence, Center for Drug Discovery and Innovation) NMR Director Search Committee (2009)
University (Florida Center of Excellence, Center for Drug Discovery and Innovation) Director Search Committee (2009-2010).
College of Arts and Sciences Tenure and Promotion Committee (Member, 2007-2008, Chair, 2008-2009)
Chemistry Department Advisory Committee (Member, 2004-2006, 2007-2008, Chair 2008-2009)
Chemistry Department NMR Advisory Committee (Chair, 2003-2009, Member, 2009-current)
Chemistry Department M.S. and Ph.D. Committees: 14 Ph.D. and 0 M.S. current (Chair of 6 Ph.D.)
Chemistry Department/College of Marine Science joint Ph.D. Committee (Co-Chair)
University of Alabama at Birmingham, Department of Biology, committees: 2 Ph.D.

Teaching Activities:**Courses Developed:**

Organic Spectroscopic Structure Determination. This graduate course is concerned with the development of contemporary mass spectrometric (MS), infrared (IR), ultraviolet (UV) and nuclear magnetic resonance (NMR) spectroscopic techniques for the determination of complex molecular structures. Approximately one third of the course is taught from Silverstein *et al.*, where EIMS, IR, UV and 1D ^1H and ^{13}C NMR are detailed; other MS techniques are introduced as well with supplementation from other texts. The second part of the course is taught from a book such as Duddeck and Dietrich's 2D NMR text, where COSY, NOSY, HETCOR/HMQC, HMBC, INADEQUATE and APT's are introduced. The remainder of the course addresses real-life structural determinations from the current literature. The course is taught once each year and attracts senior undergraduate chemistry and chemical engineering students, graduate chemistry, molecular biology, biotechnology and chemical engineering students.

Natural Products Chemistry. A graduate course that treats the broad field known as natural products. Beginning with a definition of the concept of secondary metabolism from the point of view of biochemistry and ecology, about half of the course entails a study of the classes of natural products from a phylogenetic approach. Applications of natural products, such as pharmacological, biosynthetic and chemical ecological studies, are then introduced. The remainder of the course is focused on student presentations of topics of their choosing. The course is taught roughly every other year and attracts senior undergraduates in chemistry, biomedical science, biology and biochemistry, as well as graduate students in chemistry, marine biology, oceanography, biotechnology and science education.

Drug Discovery for Tropical Diseases. This one semester graduate course was developed and co-taught with Dr. Dennis Kyle, Professor of Global Health, and treated topics of current interest in 'bench-to-bedside' tropical disease (e.g., malaria, leishmaniasis, and Chagas disease) drug discovery, including disease biology, target identification, screening, natural products, SAR and hit-to-lead expansion, SPR and PK/ADME, disease resistance, target product profiles and the drug approval process. This course is taught on an occasional basis.

Other Courses Taught:

Undergraduate: General Chemistry (2 semester sequence), Organic Chemistry (2 semester sequence),
Advance Laboratory Techniques
Graduate: Advanced Organic Chemistry, Organic Colloquium, Tools of Research (part of a team)

Teaching Outreach:

- Guest lecturer: Florida Tech Science Education Department, Continuing Education program for high school teachers, 1993 – 1995
- Co-hosted NSF sponsored “Teacher Experience in Antarctica” high school teacher, Dominic Tedeschi, who chronicled our 1996 field season to Antarctica for high school students across the country; his diary can be found at: http://tea.armadaproject.org/tea_tedeschifrontpage.html#calendar
- Science Advisor to 1997 NOAA sponsored Aquanaut Program. Taught five high school teachers marine ecology and marine chemical ecology field experience. See <http://ap.nurc.uconn.edu/>
- Co-hosted NSF “Teacher Experience in Antarctica” high school teacher Joanna Hubbard who chronicled our 2000 field season. See: http://tea.armadaproject.org/tea_hubbardfrontpage.html

Thesis and Dissertation Research Supervision:

- Aimin Yang, 1994. Chemical and biological studies of the Antarctic sponge *Latrunculia apicalis*, MS, Florida Institute of Technology (FIT). Current Position: Translator, ISI.
- Robert W. Kopitzke, 1994. Chemical investigations of the Antarctic sponge *Dendrilla membranosa*, MS, FIT. Current Position: Associate Professor, Winona State University.
- Guo Q. 'Jack' Shen, 1995. Biosynthetic studies of eudistomin H and I in the tunicate *Eudistoma olivaceum*, MS, FIT. Current Position: Unknown
- Jeanne K. Moore, 1995. Investigations of the biosynthetic origins of eudistomin I in *Eudistoma olivaceum*, MS, FIT. Current Position: Lab Tech, USDA, Louisiana.
- Kai Xie, 1996. Biosynthetic studies of eudistomins G, H and I using stable isotopes, MS, FIT. Current Position: Lab Tech, BMS, Pennsylvania.
- Agnes F. Holmes, 1996. Investigation of microbe-invertebrate interactions mediated by secondary metabolites, MS, FIT. Current Position: Lab Tech, MGI Pharma, North Carolina.
- Byoung Ho Moon, 1997. Structure and synthesis of novel metabolites from the Antarctic sponge *Isodictya erinacea*, PhD, FIT. Current Position: Staff Scientist, Korea.
- Cynthia Hahm, 2002. Chemical investigation of Antarctic microorganisms, MS, University of South Florida (USF). Current Position: Sales Manager, Agilent Technologies, Santa Cruz, CA.
- Young Chul Park, 2004. Chemical investigation of three Antarctic marine sponges, PhD, USF, (<http://www.lib.usf.edu/ETD-db/theses/available/etd-04092004-154007/>). Current Position: Scientist, Exelixis, Portland, OR
- Santhi Nandiraju, 2004. Chemical investigations of *Delisea pulchra*, MS, USF. Current Position: Pharmacist, Miami, FL
- Thushara K.K. Diyabalanage, 2006. Chemical Investigation of two Antarctic invertebrates *Synoicum adareanum* (Chordata: Ascidiaceae; Enterogona; Poluclinidae) and *Austrodoris kerguelenensis* (Mollusca; Gastropoda; Nudibranchia; Dorididae), PhD, USF. Current Position: Postdoc, National Cancer Institute
- Jaime L. Noguez (nee Heimbegner), 2010. Isolation and structural analysis of palmerolides. PhD, USF. Current Position: Postdoc, University of Florida
- Matthew D. Lebar, 2010. Synthesis and structural analysis of bioactive marine natural products. Current Position: Postdoc, Harvard University
- J. Alan Maschek, current. Chemical ecology of *Austrodoris kerguelenensis*, *Gigartina skottsbergii*, and *Dendrilla membranosa*, collected from the Western Antarctic Peninsula. Expected: 6/11 (PhD)
- Wai Ma, current. Methods of stereochemical determination and analysis of antimalarial compounds from Southeast Asian mangrove endophytes. Expected: 6/11 (PhD)
- Jeremy Beau, current. Chemical investigation of Antarctic bacteria and endophytic fungi. Expected: 6/12 (PhD)
- Jason Cuce, current. Molting modulators from Antarctic marine invertebrates. Expected: 6/12 (PhD)

Teaching Activities, continued:

Thesis and Dissertation Research Supervision, continued:

- Cheska Bursleson, current (Co-directed with Ted Van Vleet, College of Marine Science). Chemical investigation of Harmful Algal Blooms. Expected: 6/12 (PhD)
- Chandan Barhate, current. Chemical investigation of Antarctic bacteria and endophytic fungi. Expected: 6/14 (PhD)
- Kristin Costelow, current. Chemical investigation of *Gigartina skottsbergii*. Expected: 6/16 (PhD)

Postdoctoral Associates:

- Gamini S. Jayatilake, 1993 – 1997. Current Position: Chemistry Director, Hauser Labs, Boulder, Colorado
- Sridevi Ankisetty, 2002 – 2004. Current Position: Research Associate, School of Pharmacy, University of Mississippi, Oxford, Mississippi
- Solomon Weldegirma, 2005 – 2006. Current Position: Instructor, University of South Florida, Tampa, Florida
- Jaime H. Noguez, 2010. Current Position: Postdoc, University of Florida, Gainesville, Florida
- Laurent Calcul, 2010 – current.
- Carrie Waterman, 2010 – current.

Undergraduate Honors Theses, University of South Florida Honors College:

- Scott M. Haake, 2004. Chemical investigation of the Antarctic soft coral *Ainigmaptilon antarcticus*. Current Position: Medical school, University of Miami.
- Jillian Blatti, 2005. Chemical investigation of the Antarctic tunicate *Didemnum biglans*. Current Position: Graduate school, Department of Chemistry, University of California at San Diego.
- Majdouline Leroy, 2005. Isolation of ainigmaptilonones from *Ainigmaptilon antarcticus*. Current Position: Graduate school, Department of Chemistry, University of Hawaii.
- Jeila Alai, 2006. Structural studies of palmerolide H from the Antarctic tunicate *Synoicum adareanum*. Current Position: Medical school, University of South Florida.
- Jason Cuce, 2007. Chemical investigation of additional palmerolides from *Synoicum adareanum*. Current Position: Graduate school, Department of Chemistry, University of South Florida.
- Ryan Centko, 2007. Chemical analysis of the orchid *Paphiopedilum lowii*. Current Position: Graduate school, Department of Chemistry, University of British Columbia.
- Kristen Wheeler, 2007. Isolation and characterization of ecdysteroids from *Synoicum adareanum*. Current Position: Graduate school, Department of Chemistry, University of Hawaii.
- Lisha Luttenton, 2009. Accumulation of vanadium, manganese, and nickel in Antarctic tunicates. Current Position: Post-baccalaureate student, University of South Florida
- Rosemary Persaud, 2010. Isolation and characterization of ecdysteroids from *Synoicum adareanum*. Current Position: Graduate school, Doctor of Pharmacy program, University of Florida
- Ryan Baker, 2010. Antimalarial compounds from fungi. Current Position: Medical school, University of South Florida.
- Anthony Kurian, 2010. Antimalarial compounds from antimalarial plants. Current Position: Undergraduate, University of South Florida
- Hoangmy Chau, 2010. Antimalarial compounds from mangrove endophytes. Current Position: Post-baccalaureate student, University of South Florida.
- Anthony Nguyen, 2010. Antimalarial compounds from Hong Kong endophytes. Current Position: Post-baccalaureate student, University of South Florida
- Samantha Landolfi, current. Analysis of palmerolides.
- Michelle Summerville, current. Antibiotics from mangrove fungi.

Teaching Activities, continued:

Undergraduate Honors Theses, University of South Florida Honors College, continued:

Jacqueline Salm, current. Antimalarial compounds from fungi.

Morgan Pyne, current. Antimalarial compounds from fungi.

Peer Reviewed Publications:

1. Bill J. Baker, Roy K. Okuda, Patrick T. K. Yu and Paul J. Scheuer. Punaglandins: Halogenated eicosanoids from the octocoral *Telesto riisei*. *J. Am. Chem. Soc.* **1985**, *107*, 2976-2977.
2. Masaaki Suzuki, Yasushi Morita, Akira Yanagisawa, Ryoji Noyori, Bill J. Baker and Paul J. Scheuer. Punaglandins, structural revision by chemical synthesis. *J. Am. Chem. Soc.*, **1986**, *108*, 5021-5022.
3. Bill J. Baker, Paul J. Scheuer and James N. Shoolery. Papuamine, an antifungal pentacyclic alkaloid from a marine sponge, *Haliclona* sp. *J. Am. Chem. Soc.* **1988**, *110*, 965-966.
4. Masaaki Suzuki, Yasushi Morita, Akira Yanagisawa, Bill J. Baker, Paul J. Scheuer and Ryoji Noyori. Synthesis and structural revision of (7*E*)- and (7*Z*)-punaglandin 4. *J. Org. Chem.* **1988**, *53*, 286-295.
5. Bill Baker, Lal Ratnapala, M. P. D. Mahindaratne, E. Dilip de Silva, L. M. V. Tillekeratne, Jeong H. Jeong, Paul J. Scheuer and Karl Seff. Lankalapuol A and B: Two *cis*-eudesmanes from the sea hare *Aplysia dactylomela*. *Tetrahedron* **1988**, *44*, 4695-4701.
6. Ronald J. Parry, Izura Y. Arzu, Shyhchen Ju and Bill J. Baker. Biosynthesis of sinefungin. *J. Am. Chem. Soc.* **1989**, *111*, 8981-8982.
7. Russell G. Kerr, Bill J. Baker, Sutinah L. Kerr and Carl Djerassi. Biosynthesis of marine lipids 27. Demonstration of sterol side chain dealkylation using cell-free extracts of marine sponges. *Tetrahedron Lett.* **1990**, *31*, 5425-5428.
8. Ronald J. Parry, Shyhchen Ju and Bill J. Baker. The synthesis of 5(*R*)-5[³H]-L-ornithine and 5(*S*)-5[³H]-L-ornithine. *J. Lab. Comp. Radiopharm.* **1991**, *8*, 633-643.
9. Russell G. Kerr and Bill J. Baker. Marine sterols. *Nat. Prod. Rep.* **1991**, *8*, 465-497.
10. Bill J. Baker and Russell G. Kerr. Biosynthesis of marine sterols. In: *Topics in Current Chemistry*. Vol. 167, Paul J. Scheuer, ed., 1993, Springer-Verlag, Berlin, pp 1-31.
11. James B. McClintock, Bill J. Baker, Mark Slattery, Mark Hamann, Robert Koptizke and John Heine. Chemotactic tube-foot responses of the spongivorous sea star *Perknaster fuscus* to organic extracts from Antarctic sponges. *J. Chem. Ecol.* **1994**, *20*, 859-870.
12. Guo Q. Shen and Bill J. Baker. Biosynthetic studies of the eudistomins in *Eudistoma olivaceum*. *Tetrahedron Lett.* **1994**, *35*, 1141-1144.
13. Guo Q. Shen and Bill J. Baker. Biosynthetic studies of eudistomin H in the tunicate *Eudistoma olivaceum*. *Tetrahedron Lett.* **1994**, *35*, 4923-4926.
14. Hyin He, Palaniappan Kulanthaivel and Bill J. Baker. New cytotoxic sesterterpenes from the marine sponge *Spongia* sp. *Tetrahedron Lett.* **1994**, *35*, 7189-7192.
15. Bill J. Baker and Paul J. Scheuer. The punaglandins: 10-Chloroprostanoids from the octocoral *Telesto riisei*. *J. Nat. Prod.* **1994**, *57*, 1346-1353.
16. James B. McClintock, Bill J. Baker, Mark T. Hamann, Wesley Yoshida, Mark Slattery, John N. Heine, Patrick J. Bryan, Gamini S. Jayatilake and Byoung Ho Moon. Homarine as a feeding deterrent in common shallow-water Antarctic lamellarian gastropod *Marsineopsis mollis*: a rare example of chemical defense in a marine prosobranch. *J. Chem. Ecol.* **1994**, *20*, 2539-2549.
17. James B. McClintock, Bill J. Baker, Mark Slattery, John N. Heine, Patrick J. Bryan, Wesley Yoshida, Michael T. Davies-Coleman and D. John Faulkner. Chemical defense of the common Antarctic nudibranch *Tritonella belli* Eliot (Mollusca: Tritonidae) and its prey, *Clavularia frankliniana* Rouel (Cnidaria: Octocorallia). *J. Chem. Ecol.* **1994**, *20*, 3361-3372.
18. Wesley Yoshida, Patrick Bryan, Bill J. Baker and James B. McClintock. Pteroenone, the feeding deterrent substance from the Antarctic pteropod *Clione antarctica*. *J. Org. Chem.* **1995**, *60*, 780-782.

Peer Reviewed Publications, continued:

19. Patrick Bryan, Wesley Yoshida, James B. McClintock and Bill J. Baker. Ecological role for pteroenone, a novel antifeedant from the conspicuous Antarctic pteropod *Clione antarctica*. *Mar. Biol.* **1995**, *122*, 271-277.
20. Hyin He, Palaniappan Kulanthaivel, Bill J. Baker, Kiyomi Kalter, Jim Darges, Divann Cofield, Leslie Wolff and Laurel Adams. New anti-inflammatory 9,11-secoosterols from the gorgonian *Pseudopterogorgia* sp. *Tetrahedron* **1995**, *51*, 51-58.
21. Bill J. Baker, Bob Kopitzke, Wesley Yoshida and James B. McClintock. Chemical and ecological studies of the Antarctic sponge *Dendrilla membranosa*. *J. Nat. Prod.* **1995**, *58*, 1459-1462.
22. Aimin Yang, Bill J. Baker, Julia E. Grimwade, Alan C. Leonard and James B. McClintock. Discorhabdin alkaloids from the Antarctic sponge *Latrunculia apicalis*. *J. Nat. Prod.* **1995**, *58*, 1596-1599.
23. Gamini S. Jayatilake, Bill J. Baker and James B. McClintock. 1,3,5'-Triacetoxystilbene, a plant growth regulator, from the Antarctic sponge *Kirkpatrickia variolosa*. *J. Nat. Prod.* **1995**, *58*, 1958-1960.
24. Gamini S. Jayatilake, Maureen P. Thornton, Alan C. Leonard, Julia E. Grimwade and Bill J. Baker. Metabolites from an Antarctic sponge-associated bacterium, *Pseudomonas aeruginosa*. *J. Nat. Prod.* **1996**, *59*, 293-296.
25. Bill J. Baker. β -Carboline and isoquinoline alkaloids from marine organisms. In: *Alkaloids: Chemical and Biological Perspectives*, Volume 10, S.W. Pelletier, ed., 1996, Pergamon Press, Oxford, pp. 357-407.
26. Gamini S. Jayatilake and Bill J. Baker. Comparison of terpenoid cytotoxin concentrations in laboratory-maintained versus wild-collected *Spongia* sp. *J. Nat. Toxins* **1996**, *5*, 287-293.
27. Richard D. Adams, John H. Yamamoto, Agnes Holmes and Bill J. Baker. Catalytic transformations of thiiranes by (thiirane)W(CO)₅ complexes. *Organomet.* **1997**, *15*, 1430-1439.
28. James B. McClintock and Bill J. Baker. Palatability and chemical defense of eggs, embryos and larvae of shallow-water Antarctic marine invertebrates. *Mar. Ecol. Prog. Ser.* **1997**, *154*, 121-131.
29. James B. McClintock and Bill J. Baker. A review of the chemical ecology of Antarctic marine invertebrates. *Am. Zool.*, **1997** *37*, 329-342.
30. Simona De Marino, Maria Iorizzi, Franco Zollo, Luigi Minale, Charles D. Amsler, Bill J. Baker and James B. McClintock. Isolation, structure elucidation and biological activity of the steroid oligoglycosides and polyhydroxysteroids from the Antarctic sea star *Acodontaster conspicuus*. *J. Nat. Prod.* **1997**, *60*, 959-966.
31. Gamini S. Jayatilake, Bill J. Baker and James B. McClintock. Rhapsamine, a novel cytotoxic agent from the Antarctic sponge *Leucetta leptorhapsis*. *Tetrahedron Lett.* **1997**, *38*, 7507-7510.
32. Byoung Ho Moon, Bill J. Baker and James B. McClintock. Purine and nucleoside metabolites from the Antarctic sponge *Isodictya erinacea*. *J. Nat. Prod.* **1998**, *61*, 116-118.
33. Charles D. Amsler, James B. McClintock and Bill J. Baker. Chemical defense against herbivory in the Antarctic marine macroalgae *Iridaea cordata* and *Phyllophora antarctica* (Rhodophyceae). *J. Phycol.* **1998**, *34*, 53-59.
34. James B. McClintock and Bill J. Baker. Chemical ecology in Antarctic seas. *Am. Scientist* **1998**, *86*, 254-263.
35. Yoichi Nakao, Wesley Yoshida, Christina M. Szabo, Bill J. Baker and Paul J. Scheuer. More peptides and other diverse constituents of the marine mollusk *Philinopsis speciosa*. *J. Org. Chem.* **1998**, *63*, 3272-3280.
36. Patrick J. Bryan, James B. McClintock and Bill J. Baker. Population biology and antipredator defenses of the shallow water Antarctic nudibranch *Tritoniella belli*. *Mar. Biol.* **1998**, *132*, 259-265.
37. Charles D. Amsler, James B. McClintock and Bill J. Baker. An Antarctic feeding triangle: defense from predation involving a novel form of mutualism. *Mar. Ecol. Prog. Ser.*, **1999**, *183*, 105-114.

Peer Reviewed Publications, continued:

38. James B. McClintock, Bill J. Baker, Thomas K. Baumiller and Charles G. Messing. Lack of chemical defense in stalked crinoids supports the predation hypothesis for mesozoic bathymetric displacement. *J. Exp. Mar. Biol. Ecol.* **1999**, 232, 1-7.
39. Gamini S. Jayatilake and Bill J. Baker. Synthetic studies of the tridentatols. *Org. Lett.* **1999**, 1, 661-662.
40. James B. McClintock, Bill J. Baker, Charles D. Amsler and Thomas L. Barlow. Chemotactic tube-foot responses of the spongivorous sea star *Perknaster fuscus* to organic extracts from sponges from McMurdo Sound, Antarctic. *Antarctic Sci.* **2000**, 12, 41-46.
41. Byoung Ho Moon, Young Chul Park, James B. McClintock and Bill J. Baker. Structure and bioactivity of erebusinone, a pigment from the Antarctic sponge *Isodictya erinacea*. *Tetrahedron* **2000**, 56, 9057-9062.
42. Charles D. Amsler, Chris B. Moeller, James B. McClintock, Katrin B. Iken and Bill J. Baker. Chemical defense against diatoms in Antarctic marine sponges. *Biofouling* **2000**, 16, 29-45.
43. Charles D. Amsler, James B. McClintock and Bill J. Baker. Chemical defenses of Antarctic marine organisms: A reevaluation of the latitudinal hypothesis. In: *Antarctic ecosystems: models for wider ecological understanding*. W. Davidson, C. Howard-Williams and P. Broady, eds., 2000, N.Z. Natural Sciences, Christchurch, New Zealand, pp. 158-164.
44. James B. McClintock, Debra Steinberg and Bill J. Baker. Invertebrate meroplankton and holoplankton. In: *Marine Chemical Ecology*, James B. McClintock and Bill J. Baker, eds., CRC Press, Boca Raton, Florida, 2001, pp 195-225.
45. Charles D. Amsler, Katrin B. Iken, James B. McClintock and Bill J. Baker. Secondary metabolites from Antarctic marine organisms and their ecological implications. In: *Marine Chemical Ecology*, James B. McClintock and Bill J. Baker, eds., CRC Press, Boca Raton, Florida, 2001, pp. 267-300.
46. Charles D. Amsler, James B. McClintock and Bill J. Baker. Secondary metabolites as mediators of trophic interactions among Antarctic marine organisms. *Am. Zool.* **2001**, 41, 17-26.
47. Andy R. Mahon, Charles D. Amsler, James B. McClintock and Bill J. Baker. Chemo-tactile predator avoidance responses of the common Antarctic limpet, *Nacella concinna*. *Polar Biol.* **2002**, 25, 469-473.
48. F. Bruce Furrow, James B. McClintock, Charles D. Amsler and Bill J. Baker. Surface sequestration of chemical feeding deterrents in the Antarctic sponge *Latrunculia apicalis* as an optimal defense against sea star spongivory. *Mar. Biol.* **2003**, 143, 443-449.
49. Andy R. Mahon, Charles D. Amsler, James B. McClintock, Margaret O. Amsler and Bill J. Baker. Tissue-specific palatability and chemical defenses against macro-predators and pathogens in the common articulate brachiopod *Liothyrella uva* from the Antarctic Peninsula. *J. Exp. Mar. Biol. Ecol.* **2003**, 290, 197-210.
50. Katrin B. Iken and Bill J. Baker. Ainigmaptilone A: A new sesquiterpene from the Antarctic gorgonian coral *Ainigmaptilon antarcticus* (Octocorallia, Gorgonacea). *J. Nat. Prod.* **2003**, 66, 888-890.
51. James B. McClintock, Charles D. Amsler, Margaret O. Amsler, Andy R. Mahon, Kevin Peters and Bill J. Baker. Chemical defenses in embryos and juveniles of two common Antarctic sea stars and an isopod, *Antarctic Sci.* **2003**, 15, 339-344.
52. Sridevi Ankisetty, Charles D. Amsler, James B. McClintock and Bill J. Baker. Further membranolid diterpenes from the Antarctic sponge *Dendrilla membranosa*. *J. Nat. Prod.* **2004**, 67, 1172-1174.
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2. Craig F. Aumack, Charles D. Amsler, James B. McClintock and Bill J. Baker. Changes in amphipod densities among macroalgal habitats in day versus night collections along the western Antarctic peninsula. Submitted to: *Mar. Ecol. Prog. Ser.*

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11. Klika, K. D.; Baker, B. J.; McClintock, J. B. Chemical ecology of the Antarctic sponge *Isodictya setifera*. Annual meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 6 – 8 May, 1993.
12. Robson, B. E.; Baker, B. J. Antimicrobial activity of marine invertebrates. Annual meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 6 – 8 May, 1993.
13. Kopitzke, B.; Baker, B. J.; McClintock, J. B. Chemical ecology of the Antarctic sponge *Dendrilla membranosa*. Annual meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 6 – 8 May, 1993.
14. Moorhus, D.; Baker, B. J.; Keating, D.; Klika, K. D. Antimicrobial activity of bromophenols in acorn worms. Annual Meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 6 – 8 May, 1993.
15. Shen, G. Q.; Baker, B. J. Biosynthetic studies of eudistomin H and I. Annual meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 6 – 8 May, 1993.

Research Presentations, Scientific Meetings, continued:

16. Baker, B. J.; McClintock, J. B., Hamann, M.; Kopitzke, B.; Scheuer, P. J. Chemical aspects of shallow-water marine invertebrate ecology in McMurdo Sound, Antarctica. Annual meeting, International Society of Chemical Ecology, Clearwater Beach, Florida, 31 Jul – 4 Aug, 1993.
17. McClintock, J. B.; Baker, B. J. Aspects of the chemical ecology of shallow-water marine invertebrates in McMurdo Sound, Antarctica. Annual meeting, International Society of Chemical Ecology, Clearwater Beach, Florida, 31 Jul – 4 Aug, 1993.
18. Robson, B.; Baker, B. J. Activity of extracts from Antarctic sponges against associated marine bacteria. Florida Sponge Society Meeting, Long Key, FL, 22 – 24 Oct, 1993.
19. Moon, B.; Baker, B. J. Chemistry of *Isodictya erinacea*. Florida Sponge Society Meeting, Long Key, FL, 22 – 24 Oct, 1993.
20. Baker, B. J.; Yang, A.; McClintock, J. B. Chemical and biological studies of Antarctic sponges. Florida Sponge Society Meeting, Long Key, FL, 22 – 24 Oct, 1993.
21. Kopitzke, R.; Baker, B. J. Chemistry of *Dendrilla membranosa*. Florida Sponge Society Meeting, Long Key, FL, 22 – 24 Oct, 1993.
22. Baker, B. J.; McClintock, J. B. Color as a defense on the Antarctic benthos. Gordon Research Conference on Marine Natural Products, Ventura, CA, 20 – 25 Feb, 1994.
23. Kopitzke, B.; Baker, B. J.; McClintock, J. B. Chemical ecology of the Antarctic sponge *Dendrilla membranosa*. Annual meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 5 – 7 May, 1994.
24. Jayatilake, G.; Baker, B. J.; McClintock, J. B. Chemistry of the Antarctic sponge *Kirkpatrickia variolosa*. Annual meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 5 – 7 May, 1994.
25. Baker, B. J.; McClintock, J. B. Color as a defense on the Antarctic benthos. Annual meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 5 – 7 May, 1994.
26. McClintock, J. B.; Baker, B. J.; Slattery, M.; Hamann, M.; Kopitzke, R. W.; Bryan, P.; Heine J.; Yoshida, W. The chemical ecology of shallow-water marine invertebrates in McMurdo Sound, Antarctica. Annual meeting, Society of Integrative and Comparative Biology, Jan 1994.
27. Baker, B. J.; Yang, A.; McClintock, J. B. Chemical ecology of the Antarctic sponge *Latrunculia apicalis*. Annual meeting of the Florida Sections of the American Chemical Society, Orlando, FL, 5 – 7 May, 1994.
28. Bryan, P. J.; Yoshida, W.; McClintock, J. B.; Baker, B. J. Tiny pteropods taste terrible: chemical defense in a pelagic Antarctic pteropod. Benthic Ecology Meetings, Mystic Seaport, CT, 1994.
29. Holmes, A.; Baker, B. J. Natural products from Caribbean corals. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 1995.
30. Bailey, K.; Baker, B. J. Natural products from cultured marine bacteria. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 1995.
31. Jayatilake, G.; Baker, B. J.; McClintock, J. B. Natural products from Antarctic invertebrates. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 1995.
32. Xie, K.; Baker, B. J. Biosynthesis of eudistomins. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 1995.
33. Moon, B. H.; Baker, B. J.; McClintock, J. B. Synthetic studies of erebusinone. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 1995.
34. Moore, J.; Baker, B. J. Biosynthetic studies of the origins of the eudistomins. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 1995.
35. Xie, K.; Baker, B. J. Biosynthetic studies of the eudistomins in the tunicate *Eudistoma olivaceum*. 2nd Paul J. Scheuer Symposium, Honolulu, HI, 16 Dec, 1995.

Research Presentations, Scientific Meetings, continued:

36. Moon, B. H.; Baker, B. J.; McClintock, J. B. Chemical constituents of the Antarctic sponge *Isodictya erinacea*. PacifiChem Conference, Honolulu, HI, 17 – 22 Dec, 1995.
37. Xie, K.; Baker, B. J. Biosynthetic studies of the eudistomins in the tunicate *Eudistoma olivaceum*. Annual meeting of the American Society of Pharmacognosy, Santa Cruz, CA, 27 – 30 Jul, 1996.
38. Jayatilake, G. S.; Baker B. J.; McClintock, J. B. Isolation and characterization of a cytotoxin from the Antarctic sponge *Leucetta leptorhapsis*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, May 2 – 3, 1997.
39. Baker, B. J.; Jayatilake, G. S.; Moon, B. H.; McClintock, J. B. Bioactive metabolites from Antarctic sponges. Annual meeting of the American Society of Pharmacognosy, Iowa City, IA, 20 – 24 Jul, 1997.
40. Furrow, F. B.; Baker, B. J.; McClintock, J. B. Isolation and structure determination of the biologically active secondary metabolites from the Antarctic sponge *Guitarra sigmatifera*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 8 – 9 May, 1998. (Abstract: 56)
41. McClintock, J. B.; Amsler, C. D.; Baker, B. J.; De Marino, S.; Iorizzi, M.; Zollo, F.; Minale, L. The chemical ecology of Antarctic echinoderms. North American Echinoderm Conference, Jul, 1998.
42. Baker, B. J.; Moon, B. H.; McClintock, J. B. Molt inhibition as a mechanism of chemical defense. Annual meeting of the American Society of Pharmacognosy, Orlando, FL, 19 – 24 Jul, 1998.
43. McClintock, J. B.; Amsler, C. D.; Baker, B. J. The chemical ecology of Antarctic marine organisms. Annual meeting of the American Society of Pharmacognosy, Orlando, FL, 19 – 24 Jul, 1998.
44. Amsler, C. D.; McClintock, J. B.; Baker, B. J. An Antarctic feeding triangle: chemical defense, physical defense, and mutualism in macroalgae, urchins, and anemones. Annual meeting of the Phycological Society of America, 1998. (Abstract: *J. Phycol.* **1998**, 34 (sup), 3)
45. Amsler, C. D.; McClintock, J. B.; Baker, B. J. Annual meeting, Society of Integrative and Comparative Biology, Jan, 1998.
46. Baker, B. J.; McClintock, J. B. Scientific scuba diving in the extreme cold water of Antarctica. Proceedings, Marine Technological Society, Annual Meeting, Baltimore, MD, 1998.
47. Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemical defense, physical defense, and mutualism in Antarctic macroalgae, urchins and anemones. Annual meeting, Society of Integrative and Comparative Biology, Jan, 1999. (Abstract: *Am. Zool.* **1999**, 39, 2A)
48. Furrow, F. B.; Baker, B. J.; McClintock, J.B. Sequestration of bioactive compounds in the Antarctic sponge *Latrunculia apicalis*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 7 – 8 May, 1999. (Abstract: 64)
49. Baker, B. J.; Hahm, C. M.; McClintock, J. B. Chemical investigations of the Antarctic sponge *Isodictya erinacea*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 7 – 8 May, 1999. (Abstract: 65)
50. Baker, B. J.; Tipton, J.; Barlow, T.; McClintock, J. B. Chemical and ecological investigation of the Antarctic sponge *Suberites* sp. American Chemical Society Florida Annual Meeting and Exposition, Orlando, FL, 7 – 8 May, 1999. (Abstract: 66)
51. Amsler, C. D.; McClintock, J. B.; Landry, D. M.; Estes, N. R.; Iken, K. B.; Baker, B. J. Chemical defenses against diatoms in Antarctic marine macroalgae and sponges. Annual meeting of the Phycological Society of America, 1999. (Abstract: *J. Phycol.* **1999**, 35 (sup), 4)
52. Baker, B. J.; McClintock, J. B.; Amsler, C. D. Antarctic chemical ecology. Annual meeting, Society of Integrative and Comparative Biology, Atlanta, GA, Jan 2000.
53. Furrow, F. B.; McClintock, J. B.; Baker B. J. Constituents of the Antarctic sponge *Guitarra sigmatifera*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, May, 2000.
54. Hahm, C. M.; VanErt, M.; Grimwade, J. G.; Leonard, A. C.; Baker, B. J. Studies of Bioactive Metabolites from the Antarctic marine bacterium *Pseudoalteromonas* sp. 2162. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, May, 2000.

Research Presentations, Scientific Meetings, continued:

55. Park, Y. C.; Baker, B. J. Synthesis of tridentatols: A new class of potent UV sunscreen compounds. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, May, 2000.
56. Baker, B. J.; Furrow, F. B.; Tipton, J.; Baker, J. A.; McClintock J. B. Functional roles of natural products from marine sponges. PacifiChem, Honolulu, HI, 14 – 17 Dec, 2000.
57. Amsler, C. D.; Iken, K. B.; Furrow, F. B.; Baker, B. J.; Hubbard, J. M.; McClintock J. B. Initial observations of chemical defense in Antarctic Peninsula macroalgae. Southeastern Phycological Colloquy, Georgetown, SC (Belle W. Baruch Institute for Marine Biology and Coastal Research), 28 Oct, 2000.
58. Baker, B. J. Screening for antibiotics in Antarctic invertebrate-associated bacteria. Extremeophile Workshop, Xiamen, China, 25 – 26 Feb, 2000. (Invited)
59. Mahon, A. R.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemo-tactile predator avoidance responses of the Antarctic limpet, *Nacella concinna*. Annual meeting, Society of American Zoologists, Chicago, IL, Jan, 2001. (Abstract: *Am. Zool.* **2000**, *40*, 1114)
60. Park, Y. C.; Baker, B. J. Synthesis of erebusinone. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, May, 2001.
61. Hahm, C.; Grimwade, J. G.; Leonard, A. C.; Maiese, W.; Baker, B. J. Studies of bioactive metabolites from the Antarctic marine bacterium *Pseudoalteromonas clarkia*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, May, 2001.
62. Amsler, C. D.; Iken, K. B.; McClintock, J. B.; Furrow, F. B.; Baker, B. J. Chemical defenses against herbivores in Antarctic peninsular macroalgae: Initial studies in a nitrogen replete system. Annual meeting, International Phycological Congress, Athens, Greece. (Abstract: *Phycologia* **2001**, *40*, 58)
63. Hahm, C.; Singh, M. P.; Janso, J. E.; Grimwade, J. G.; Leonard, A. C.; Maiese, W.; Baker, B. J. Chemical analysis of antibiotic activity in Antarctic invertebrate-associated bacteria. Annual meeting of the American Society of Pharmacognosy, Oaxaca, Mexico, Jul, 2001.
64. Amsler, C. D.; Iken, K. B.; McClintock, J. B.; Furrow, F. B.; Baker, B. J. Macroalgal defenses in the nitrogen replete, carbon limited southern ocean: no evidence for nitrogenous secondary metabolites. Annual meeting of the International Society of Chemical Ecology, Lake Tahoe, CA, 2001.
65. Amsler, C. D.; Iken, K. B.; McClintock, J. B.; Furrow, F. B.; Baker, B. J. The beginnings of Antarctic macroalgal chemical ecology: defenses against herbivores in a nitrogen replete, carbon limited ocean. Annual meeting of the Phycological Society of America, 2001. (Abstract: *J. Phycol.* **2001**, *37* (sup.), 5)
66. Amsler, C. D.; Amsler, M. O.; McClintock, J. B.; Iken, K. B.; Hubbard, J. M.; Baker, B. J. Palatability and chemical defenses of macroalgae in the Antarctic Peninsula. Annual meeting of the Phycological Society of America, 2002. (Abstract: *J. Phycol.* **2002**, *38* (s1), 1)
67. Peters, K. J.; Amsler, C. D.; Amsler, M. O.; McClintock, J. B.; Iken, K. B.; Baker, B. J. The effects of thallus toughness and nutritive quality on palatability of Antarctic macroalgae. Annual meeting of the Phycological Society of America, 2002. (Abstract: *J. Phycol.* **2002**, *38* (s1), 29-30)
68. Baker, B. J.; Furrow, F. B.; Iken, K. B.; Amsler, C. D.; McClintock, J. B. Sequestration of defensive metabolites in Antarctic sponges. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 8 – 10 May, 2003. (Abstract: 94)
69. Park, Y. C.; Baker, B. J. Synthesis and bioactivity of erebusinone, a pigment from the Antarctic sponge *Isodictya erinacea*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 8 – 10 May, 2003. (Abstract: 97)
70. Ankisetty, S.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Indole alkaloids from the tunicate *Synoicum* sp. and a new plastoquinone from the brown alga *Desmarestia menziesii*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 8 – 10 May, 2003. (Abstract: 95)

Research Presentations, Scientific Meetings, continued:

71. Win, H.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemical investigation of the Antarctic brown alga *Cystosphaera jacquinotii*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 8 – 10 May, 2003. (Abstract: 98)
72. Ankisetty, S.; Baker, B. J. Chemical investigation and structural elucidation of secondary metabolites of some marine organisms. Castle Conference, University of South Florida, Tampa, FL, Apr, 2003.
73. Park, Y.C.; Amsler, C.D.; McClintock, J.B.; Baker, B.J. Synthesis and bioactivity of the yellow pigment from the Antarctic sponge *Isodictya erinacea*. Annual meeting of the American Society of Pharmacognosy, Chapel Hill, NC, 2003. (Abstract: O6)
74. McClintock, J. B.; Amsler, C. D.; Baker, B. J.; Van Soest, R. The ecology of Antarctic marine sponges. Annual meeting, Society of Integrative and Comparative Biology, Jan 2004. (Abstract: *Integ. Comp. Biol.* **2003**, 43, 991)
75. Diyabalanage, T. K.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmerolide A, a novel cytotoxic macrolide from the Antarctic tunicate *Synoicum adareanum*. Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL 6 – 8 May, 2004.
76. Mondy, W. L.; Baker, B. J.; Garey J. R. Pigmentation producing cells associated with the aposematic coloration found in the ecteinascidin producing ascidian *Ecteinascidia turbinata*. Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL 6 – 8 May, 2004.
77. Park, Y. C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Isolation and characterization of a ceramide analog from the Antarctic sponge *Isodictya antarctica*. Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL 6 – 8 May, 2004.
78. Diyabalanage, T. K.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmerolide A, a novel cytotoxic macrolide from the Antarctic tunicate *Synoicum adareanum*. Annual meeting of the American Society of Pharmacognosy, Phoenix, AZ, Jul, 2004.
79. Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemistry and Bioactivity of Palmerolides. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2005. (Student Paper Award)
80. Lebar, M. D.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Degradation Studies of Natural Products Utilizing Ozonolysis. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2005.
81. Judge, S.; Swenson, J. E.; Baker, B. J. Antarctic microbial bio-prospecting. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2005.
82. Pasaribu, A.; Petrie, C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Norselic Acid, a new steroid from the Antarctic sponge, *Crella* sp. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2005.
83. Miyata, Y.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. A Novel Ecdysteroid from the Antarctic Tunicate *Synoicum adareanum*. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2005.
84. Heimbegner, J.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Isolation of palmerolide A from *Synoicum adareanum*. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2005. (Student Paper Award)
85. Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmerolides A, C, D and E, a series of cytotoxic macrolides from the Antarctic tunicate *Synoicum adareanum*. Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 Apr, 2005. (Student Paper Award)
86. Pasaribu, A.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Norselic acid, a new steroid from the Antarctic sponge *Crella* sp. Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 Apr, 2005.

Research Presentations, Scientific Meetings, continued:

87. Lebar, M.; Amsler, C. D.; McClintock J. B.; Baker, B. J. Degradation studies of natural products utilizing ozonolysis. Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 Apr, 2005.
88. Miyata, Y.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. A Novel Ecdysteroid from the Antarctic tunicate *Synoicum adareanum*. Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 Apr, 2005.
89. Huang, Y.; McClintock, J. B.; Amsler, C. D.; Peters, K.; Baker, B. J. Feeding rates of common Antarctic gammarid amphipods on ecologically important sympatric macroalgae. Southeastern Phycological Congress, Ft. Pierce, FL, 4 – 6 Nov, 2005.
90. Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmerolides B, C, D and E, a series of new cytotoxic macrolides from the Antarctic tunicate *Synoicum adareanum*. Annual meeting of the American Society of Pharmacognosy, Corvallis, OR, 22 – 26 Jul, 2005. (Student Paper Award)
91. Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Xie, X. S.; Wang, J.; Ma, Y.; Baker, B. J. Palmerolides: Macrolides from the Antarctic tunicate *Synoicum adareanum* that target V-ATPase. PacifiChem, Honolulu, HI, 15 – 20 Dec, 2005.
92. Huang, Y.; McClintock, J. B.; Amsler, C. D.; Peters, K. J.; Baker, B. J. Feeding rates on common Antarctic gammarid amphipods on ecologically important sympatric macroalgae. Annual meeting, Integrative and Comparative Biology, Jan, 2005. (Abstract: *Integ. Comp. Biol.* **2005**, *45*, 1015)
93. Peters, K. J.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palatability and chemical defenses of Antarctic peninsular sponges. Annual meeting, Integrative and Comparative Biology, Jan, 2005. (Abstract: *Integ. Comp. Biol.* **2005**, *45*, 1056)
94. Amsler, C. D.; Iken, K.; McClintock, J. B.; Amsler, M. O.; Peters, K. J.; Hubbard, J. M.; Baker, B. J. Palatability and chemical defenses of subtidal macroalgae from the Antarctic Peninsula. Benthic Ecology Meeting, Williamsburg, VA, 6 – 10 Apr, 2005.
95. McClintock, J. B.; Amsler, M. O.; Amsler, C. D.; Southworth, K. J.; Petrie, C.; Baker, B. J. Biochemical composition, energy content and chemical anti-feedant and anti-foulant defenses of a colonial Antarctic ascidian. Benthic Ecology Meeting, Williamsburg, VA, 6 – 10 Apr, 2005.
96. Weldegirma, S. T.; Park, Y. C.; Baker, B. J. Synthesis of ¹³C-labeled erebusinone – studying the biosynthetic role of erebusinone. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2006.
97. Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemistry and bioactivity of new polyketide macrolides palmerolides C, D and E. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2006.
98. Lebar, M. D.; Baker, B. J. Chemical transformations of tylosin, an antibiotic agent. Tampa Bay Section, American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2006.
99. Ma, W. S.; Baker, B. J. Determination of the absolute configuration of tertiary alcohols by ¹³C NMR spectroscopy using chiral lanthanide shift reagents. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2006.
100. Heimbegner, J. L.; Diyabalanage, T.; Miyata, Y.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. Chemical investigation of *Synoicum adareanum*: isolation of three structurally diverse series of natural products. Tampa Bay Section, American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2006. (Student Paper Award)
101. Maschek, J. A.; Diyabalanage, T.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. Palmadorins, a new series of diterpenoid glycerides from *Austrodoris kerguelenensis*. Tampa Bay Section, American Chemical Society Mini-symposium, St. Petersburg, FL, 15 Apr, 2006. (Student Paper Award)
102. Lebar, M.; Baker, B. J. Chemical transformations of tylosin, an antibiotic agent. Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 29 Apr, 2006.

Research Presentations, Scientific Meetings, continued:

103. Heimbegner, J.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemical Investigation of *Synoicum adareanum*. Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 29 Apr, 2006. (Student Paper Award)
104. Baker, B. J. Recent advances in the development of the palmerolides. 55th annual Natural Products Gordon Research Conference, Tilton, NH, 23 – 28 Jul, 2006.
105. Weldegirma, S. T.; Park, Y. C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Synthesis of ¹³C-labeled erebusinone and erebusinonamine. Annual meeting of the American Society of Pharmacognosy, Arlington, VA, 5 – 9 Aug, 2006.
106. Peters, K. J.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Antimicrobial activity of Antarctic marine sponge extracts. Annual meeting of the Alabama Academy of Science, Troy University, Troy, AL, 15 – 18 Mar, 2006. (Abstract: *J. Alabama Acad. Sci.*, **2006**, 77, 56)
107. McClintock, J. B.; Amsler, M. O.; Amsler, C. D.; Baker, B. J. The biochemical composition, energy content and chemical antifeedant defenses of the common Antarctic peninsular sea stars *Granaster nutrix* and *Neosmilaster georgianus*. 12th International Echinoderm Conference, Durham, NH, 7 – 11 Aug, 2006.
108. Amsler, C. D.; Fairhead, V. A.; Huang, Y. M.; Okogbue, I. N.; Amsler, M. O.; McClintock, J. B.; Baker, B. J. Chemical ecology of ecologically dominant *Desmarestia* spp. along the western Antarctic Peninsula. Benthic Ecology Meeting, Quebec City, Canada, 8 – 12 Mar, 2006.
109. Ma, W. S.; Baker, B. J. Determination of absolute configuration of tertiary alcohols by ¹³C NMR spectroscopy in the presence of chiral lanthanide shift reagents (CLSR). Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 9 Mar, 2007.
110. Lebar, M.; Baker, B. J. On the stereochemistry of palmerolide A. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 9 Mar, 2007.
111. Wheeler, K.; Cuce, J.; Maschek, M.; Valeriote, F.; Baker, B. J. The isolation and structural elucidation of biomolecules from phyla Urochordata, Echinodermata and Porifera serving as potential antimicrobial and anticancer agents. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 9 Mar, 2007.
112. Heimbegner, J. L.; Diyabalanage, T. K.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. The stereochemical assignment of palmerolide A and its analogs. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 9 Mar, 2007.
113. Baker, B. J. Underwater Antarctica. Antarctic Workshop, Punta Arenas, Chile, 18 Mar, 2008.
114. Maschek, J. A.; Centko, R.; Weldegirma, S. T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Biosynthetic studies of the Antarctic sponge *Isodictya erinacea*: Tracing the tryptophan pathway. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 9 Mar, 2007.
115. Bucolo, A.; Amsler, C.; McClintock, J.; Baker, B. Palatability of *Palmaria decipiens* and its endo/epiphyte *Elachista antarctica* to three common Antarctic amphipods. Joint Annual meeting, Phycological Society of America and the International Society of Protistologists, Warwick, RI, 5-9 Aug, 2007.
116. Cuce, J. R.; Heimbegner, J. L.; Diyabalanage, T. K.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. The isolation of palmerolide biomolecules from *Synoicum adareanum* and their effectiveness against select pathogens. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 28 Mar, 2008. (Undergraduate Student Paper Award)
117. Wheeler, K.; Miyata, Y.; Valeriote, F. A.; Baker, B. J. Further investigation into Abeohyosterone. Purification and bioactivity studies of a new ecdysterone with moderate anticancer activity. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 28 Mar, 2008. (Undergraduate Student Paper Award)

Research Presentations, Scientific Meetings, continued:

118. Lebar, M.; Baker, B. J. Degradation and partial reconstruction (C3-C14) of cytotoxic macrolide palmerolide A. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 28 Mar, 2008. (Graduate Student Paper Award)
119. Ma, W. S.; Baker, B. J. Determination of absolute configuration of tertiary alcohol by ¹³C NMR spectroscopy in the presence of chiral lanthanide shift reagents (CLSR). Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 28 Mar, 2008.
120. Beau, J.; Baker, B. J. Drug discovery of Florida mangrove endophytes. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 28 Mar, 2008.
121. Heimbegner, J. L.; Cuce, J. R.; Mutka, T. S.; Sweat, M.; Kyle, D. E.; Baker, B.J. Chemical investigation of Antarctic marine organisms as potential anti-malarial and anti-leishmanial agents. Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 28 Mar, 2008. (Graduate Student Paper Award)
122. Baker, B. J. Natural products drug discovery: Attracting high school students to study chemistry. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 2008. (Invited)
123. Maschek, J. A.; Baker, B. J. Synthesis of the ¹³C labeled tryptophan catabolites kynurenine, N²-formalkynurenine and 3-hydroxykynurenine. Annual meeting of the American Society of Pharmacognosy, Athens, Greece, 3 – 8 Aug, 2008. (Abstract: SL126)
124. Lebar, M.; Baker, B. J. Degradation and partial reconstruction (C3-C14) of cytotoxic macrolide palmerolide A. Annual meeting of the American Society of Pharmacognosy, Athens, Greece, 3 – 8 Aug, 2008. (Abstract: SL67, *Planta Med.* **2008**, 74, 923)
125. Baker, B. J. Recent advances in the development of the palmerolides. Annual meeting of the American Society of Pharmacognosy, Athens, Greece, 3 – 8 Aug, 2008. (Invited)
126. Baker, B. J.; Maschek, J. A.; Van Olphen, A.; Butcher, C. Antiviral activity in Antarctic Red Marine Algae (RMA), Shanghai International Conference on Traditional Chinese Medicine and Natural Medicine, Shanghai, China, 10 – 12 Oct, 2008. (Invited)
127. Koplovitz, G.; McClintock, J. B.; Amsler, C.D.; Baker, B. J. Palatability and anti-predatory chemical defenses in a suite of ascidians from the Western Antarctic Peninsula. Society of Integrative and Comparative Biology meeting, Boston, MA, 3 – 7 Jan, 2009.
128. Zamzow, J. P.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Hiding in the bushes: Structural and chemical determinants of habitat choice in Antarctic amphipods. Society of Integrative and Comparative Biology meeting, Boston, MA, 3 – 7 Jan, 2009.
129. Aumack, C. F.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemically mediated resistance to mesoherbivory in finely branched macroalgae along the western Antarctic Peninsula. Benthic Ecology Meeting, Corpus Christi, Mar, 2009
130. Bucolo, P.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Phototactic responses of swimmers of the Antarctic epiphyte *Elachista antarctica*. Benthic Ecology Meeting, Corpus Christi, Mar, 2009
131. Amsler, C. D.; Amsler, M. O.; McClintock, J. B.; Baker, B. J. Filamentous algal endophytes in macrophytic Antarctic algae: prevalence in hosts and palatability to mesoherbivores. Benthic Ecology Meeting, Corpus Christi, Mar, 2009
132. Maschek, J. A.; Bucher, C.; Van Olphen, A.; Baker, B. J. A protein with strong anti-influenza activity from the Antarctic red marine alga *Gigartina skottsbergii*. 50th Anniversary Meeting of the American Society of Pharmacognosy, Honolulu, HI, 27 Jun – 1 Jul, 2009.
133. Bucolo, P.; Amsler, C. D.; Amsler, M. O.; McClintock, J. B.; Baker, B. J. Phototactic responses of swimmers of the Antarctic epiphyte *Elachista antarctica*. Joint meeting, Phycological Society of America and American Society of Plant Biologists, Honolulu, HI, 18 – 22 Jul, 2009.
134. Aumack, C. F.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Impacts of filamentous algal epiphytes/endophytes on macroalgal productivity in the Western Antarctic Peninsula. Joint meeting,

Research Presentations, Scientific Meetings, continued:

- Phycological Society of America and American Society of Plant Biologists, Honolulu, HI, 18 – 22 Jul, 2009.
135. Amsler, C. D.; Amsler, M. O.; McClintock, J. B.; Baker, B. J. Filamentous algal endophytes in macrophytic Antarctic algae: prevalence in hosts and palatability to mesoherbivores. Joint meeting, Phycological Society of America and American Society of Plant Biologists, Honolulu, HI, 18 – 22 Jul, 2009.
136. Huang, Y. M.; Amsler, M. O.; McClintock, J.; Amsler, C. D.; Baker, B. J. Patterns of gammaridean amphipod abundance and species composition associated with dominant subtidal macroalgae from the western Antarctic Peninsula. Xth SCAR International Biology Symposium, Sapporo, Hokkaido, Japan, 26 – 31 Jul, 2009. (Abstract: O-3-29)
137. Amsler, C. D.; Amsler, M. O.; McClintock, J.; Baker, B. J. Filamentous algal endophytes in macrophytic Antarctic algae: prevalence in hosts and palatability to mesoherbivores. Xth SCAR International Biology Symposium, Sapporo, Hokkaido, Japan, 26 – 31 Jul, 2009. (Abstract: O-3-30)
138. Aumack, C. F.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Impacts of filamentous algal epiphytes/endophytes on macroalgal productivity in the Western Antarctic Peninsula. Xth SCAR International Biology Symposium, Sapporo, Hokkaido, Japan, 26 – 31 Jul, 2009. (Abstract: O-3-31)
139. Koplovitz, G.; McClintock, J.; Amsler, C. D.; Baker, B. J. Palatability and anti-predatory chemical defenses in a suite of ascidians from the Western Antarctic Peninsula. Xth SCAR International Biology Symposium, Sapporo, Hokkaido, Japan, 26 – 31 Jul, 2009. (Abstract: O-3-32)
140. Aumack, C. F.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Impacts of filamentous algal epiphytes/endophytes on macroalgal productivity in the Western Antarctic Peninsula. 9th International Phycological Congress, Tokyo, Japan, 2 – 8 Aug, 2009.
141. Maschek, J. A.; Bucher, C.; Van Olphen, A.; Baker, B. J. A protein with strong anti-influenza activity from the Antarctic red marine alga *Gigartina skottsbergii*. 49th Annual Meeting of the Phytochemical Society of North America, Baltimore, MD, 8 Aug – 12 Aug, 2009. (Invited)
142. Bucolo, P.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Phototactic responses of swarmer of the Antarctic epiphyte *Elachista antarctica*. 31st Annual Southeastern Phycological Colloquy, Valdosta, GA, 16 – 17 Oct, 2009.
143. Aumack, C. F.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Impacts of mesograzers on epiphyte/endophyte growth on/within chemically defended macroalgae along the western Antarctic Peninsula. 31st Annual Southeastern Phycological Colloquy, Valdosta, GA, 16 – 17 Oct, 2009.
144. Baker, B. J. Vision for a Marine Biodiscovery Program for Ireland, Beaufort Workshop, Belfast, North Ireland, UK, 10 Dec 2009. (Invited)
145. McClintock, J. B.; Amsler, C. D.; Baker, B. J. An overview of the chemical ecology of marine macroalgae and benthic invertebrates along the Antarctic Peninsula. Annual meeting of the Society for Integrative and Comparative Biology, Seattle, WA, 3 – 7 Jan, 2010. (Invited)
146. Lebar, M. D.; Ankisetty, S.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Isolation and synthesis of meridianin A, synthesis and structure reassessment of psammopemmin A. Meeting of the American Society of Pharmacognosy, St. Petersburg, Florida, 10 – 14 Jul, 2010.
147. Kyle, D. E.; Mutka, T. S.; Srivastava, A.; Saenz, F.; Lacrue, A. N.; Baker, B. J. Natural products drug discovery for malaria and leishmaniasis: obstacles and opportunities. Meeting of the American Society of Pharmacognosy, St. Petersburg, Florida, 10 – 14 Jul, 2010. (Invited)

Departmental Research Presentations:

1. Chemistry Department, University of Hawaii, Honolulu, HI, August, 1986
2. Chemistry Department, University of Hawaii, Honolulu, HI, October, 1986
3. Department of Med. Chem. and Pharmacognosy, Univ. of Houston, Houston, TX, Nov 1987.

Departmental Research Presentations, continued:

4. Department of Chemistry, Calif. Polytechnic State University, San Luis Obispo, CA, Mar 1988
5. Department of Chemistry, University of North Carolina, Wilmington, NC, Feb 1989
6. Department of Chemistry, Florida Institute of Technology, Melbourne, FL, Mar 1989
7. Department of Chemistry, Florida Institute of Technology, Melbourne, FL, Apr 1990
8. Department of Biological Sciences, Florida Institute of Technology, Melbourne, FL, Apr 1990
9. Organic Faculty of Florida, University of Florida, Gainesville, FL, Mar 1991
10. Department of Science, Daytona Beach Community College, Daytona Beach, FL, Mar 1991
11. Department of Physical Sciences, Barry University, Miami, FL, Apr 1991
12. Department of Chemistry, University of Central Florida, Orlando, FL, Sept 1991
13. Departments of Chemistry and Marine Biology, Eckerd College, St. Petersburg, FL, Oct 1991
14. Sphinx Pharmaceuticals, Durham, NC, Nov 1991
15. Department of Chemistry, San Jose State University, San Jose, CA, Feb 1992
16. Department of Chemistry, Calif. Polytechnic State University, San Luis Obispo, CA, Feb 1992
17. Department of Chemistry, Stetson University, Deland, FL, Mar 1992
18. Fermentation Branch, Eli Lilly and Company, Indianapolis, IN, Mar 1992
19. Discovery Research, DowElanco, Indianapolis, IN, Mar 1992
20. Crary Laboratory Science Lecture Series, McMurdo, Antarctica, Oct 1992
21. McMurdo Community Science Lecture Series, Antarctica, Nov 1992
22. Department of Oceanography, Florida Tech, Melbourne, FL, Jan 1993
23. Orlando Section, ACS, Melbourne, FL, Jan 1993
24. Department of Chemistry, Florida Atlantic University, Boca Raton, FL, Feb 1993
25. Fermentation Branch, Eli Lilly and Company, Indianapolis, IN, Mar 1993
26. Discovery Research, DowElanco, Indianapolis, IN, Mar 1993
27. Center for Marine Conservation, Grant, FL, Sept 1993
28. National Cancer Institute, Drug Discovery Branch, Ft. Dietrich, VA, Sept 1993
29. Department of Biological Sciences, Florida Tech, Melbourne, FL, Sept 1993
30. Crary Laboratory Science Lecture Series, McMurdo, Antarctica, Oct 1993
31. Florida Tech, HS Extension Class, Melbourne, FL, Jun 1994
32. Florida Tech, HS Extension Class, Melbourne, FL, Jun 1995
33. RiboGene, Hayward, CA, June 1995
34. ZymoGenetics, Seattle, WA, July 1995
35. Banyon College, Seattle, WA, Aug 1995
36. Discovery Research, DowElanco, Greenfield, IN, Feb 1996
37. Crary Laboratory Science Lecture Series, McMurdo Station, Antarctica, Oct 1996
38. McMurdo Community Science Lecture Series, Nov 1996
39. Organic Faculty of Florida, Feb 1997
40. Department of Chemistry, Hamilton College, Clinton, NY, Feb 1997
41. Crary Laboratory Science Lecture Series, McMurdo Station, Antarctica, Oct 1997
42. Hauser Chemical Company, Boulder, CO, Feb 1998
43. Department of Chemistry, Washington State University, Pullman, WA, Mar 1998
44. Florida Tech College of Science and Liberal Arts Science Lecture Series, Nov 1998
45. Phytera, Inc., Boston, MA, Nov 98
46. Department of Pharmacognosy and Medicinal Chemistry, University of Chicago, Chicago, IL, Jan 1999
47. Department of Chemistry, University of South Florida, Tampa, FL, Jan 1999
48. Whitney Laboratory, University of Florida, St. Augustine, FL, Feb 2000.
49. Palmer Station Science Lecture Series, Mar 2000
50. Moffitt Cancer Center, University of South Florida, Dec 2000

Departmental Research Presentations, continued:

51. Department of Chemistry, Hamilton College, Clinton, NY, Feb 2001
52. Palmer Station Science Lecture Series, Nov 2001
53. Tampa Bay Section of the American Chemical Society, Tampa, FL, Jan 2002
54. Department of Biochemistry University of South Florida, Tampa, FL, Feb 2002
55. Department of Chemistry, Florida Southern College, Mar 2002
56. Department of Biology and Chemistry, City University of Hong Kong, Jul 2002
57. Key Laboratory of Marine Biotechnology, Xiamen, China, Jul 2002
58. Department of Biology, University of South Florida, Tampa, Florida, Sept 2002
59. Department of Microbial Biotechnology, Hanoi University of Education, Hanoi, Vietnam, Oct 2002
60. Department of Chemistry, University of Alabama at Birmingham, Birmingham, AL, Nov 2002
61. Department of Chemistry, Birmingham Southern, Birmingham, AL, Nov 2002
62. Palmer Station Science Lecture Series, Jan 2002
63. Department of Chemistry, University of Miami, Feb 2003
64. Palmer Station Science Lecture Series, Mar 2004
65. Department of Chemistry, Florida Southern College, Apr 2003
66. Moffitt Drug Discovery Group Sept 2004
67. Department of Chemistry, Lyon College, Nov 2004
68. Department of Chemistry, Arkansas State University, Nov 2004
69. Department of Chemistry, University of Memphis, Nov 2004
70. Department of Biology, University of South Alabama, Nov 2004
71. Crop Protection Division, DuPont, Wilmington, DE, Dec 2004
72. Department of Cutaneous Oncology, Moffitt Cancer Center, Tampa, FL Mar 2005
73. Developmental Therapeutics Program, National Cancer Institute, Frederick, MD Sept 2005
74. Sigma Xi Science Lecture Series, Eckerd College, Nov 2005
75. Moffitt Cancer Center, Drug Discovery Group, Mar 2006
76. Department of Chemistry, University of South Florida, Sept 2006
77. Oncology Group, Reata Pharmaceuticals, Sept 2006
78. Department of Biological Sciences, University of South Florida, Oct 2006
79. Department of Environmental and Occupational Health, Nov 2006
80. USF Minority Pre-Professional Science Society, Jan 2007
81. University of South Florida Chemistry Department Student Affiliates, Feb 2007
82. Palmer Station Science Lecture Series, Mar 2007
83. Palmer Station Science Lecture Series, Jan 2008
84. Universidad de Magallanes, Mar 2008
85. University of South Florida Department of Chemistry REU program, Oct 2008
86. University of South Florida Scuba Club, Oct 2008
87. Shanghai Institute of Organic Chemistry, Oct 2008
88. College of Marine Science, University of South Florida, St. Pete, FL, Oct 2008
89. Department of Chemistry, Hamilton College, Clinton, NY, May 2009
90. School of Chemistry, National University of Ireland, Galway, Ireland, Jul 2009
91. Department of Chemistry, Florida State University, Tallahassee, FL, Sept 2009
92. Department of Chemistry, Texas A & M University, College Station, TX, Nov 2009
93. School of Chemistry, National University of Ireland, Galway, Ireland, Dec 2009
94. Department of Biology and Chemistry, University of Louisville, Louisville, KY, Feb 2010
95. Department of Chemistry, University of Louisville, Louisville, KY, Feb 2010
96. Institute for Synthesis and Chemical Biology, University College Dublin, Mar 2010

Community Research Presentations:

1. Clinton High School, Clinton NY 1992
2. Turtle Coast Sierra Club, Melbourne FL 1993
3. Marine Resources Council, Melbourne FL 1994
4. Cocoa High School, Cocoa FL 1994
5. Melbourne Hospital High School, Melbourne FL 1995
6. Belize High School Teachers Group June 1993
7. Turtle Coast Turtle Protection Society Feb 1996
8. Floridahomakers, Melbourne Beach FL Jun 1996
9. De Laura Junior High School, Satellite Beach FL 1997
10. Panhellenic Society, Melbourne Beach FL 1997
11. Southwest Junior High School, Melbourne FL 1997
12. Marine Resources Council 1997
13. De Laura Junior High School, Satellite Beach, FL 1998
14. Great Outdoors, Titusville FL 1998
15. Columbia Middle School, Melbourne, FL 1998
16. Courtney Springs, Cocoa Beach FL Nov 1998
17. Courtney Springs, Cocoa Beach FL Jan 1999
18. De Laura Junior High School, Satellite Beach, FL 1999
19. Sea View Junior High School, Satellite Beach FL Oct 2000
20. De Laura Junior High School, Satellite Beach FL Mar 2001
21. Museum of Science and Industry, Tampa FL 2002
22. Montessori Day House, Tampa FL 2002
23. Pigeon Key Marine Lab, Pigeon Key FL 2002
24. Freedom High School, Tampa FL Apr 2003
25. Freedom High School, Tampa FL Apr 2005
26. Lakeland High School, Lakeland FL Oct 2005
27. Whorton High School, Tampa FL Nov 2005
28. Freedom High School, Tampa FL April 2006
29. Vanguard High School, Lake Wales FL May 2006
30. Lakeland High School, Lakeland FL Oct 2006
31. Brewster Technical College, Tampa FL Oct 2006
32. American Corners, Punta Arenas, Chile, Mar 2008
33. Liberty Middle School, Tampa, FL May 2008
34. Chinese Association of Florida, Orlando, FL, May 2008
35. Residential Life, USF, Mar 2009
36. Honors College, USF, Sept 2009
37. Joint meeting, Scuba, Chemistry and Undergraduate Research clubs, USF, Oct 2009
38. Honors College, USF, Oct 2010
39. Science Café, St. Petersburg, FL, Oct 2010
40. Scholar's Showcase, USF, Oct 2010
41. Great American Teach-In, Bartels Middle School, Tampa, FL, Nov 2010
42. Stampede to Success, USF, Nov 2010

Poster Presentations, Scientific Meetings:

1. Baker, B. J.; Kerr, R. G.; Kerr, S. L.; Djerassi, C. Evidence for a key intermediate in the dealkylation of sterols in marine sponges. Gordon Research Conference on Marine Natural Products, Ventura, CA, 19 – 23 Feb, 1990.

Poster Presentations, Scientific Meetings, continued:

2. Baker, B. J. Synthetic studies toward papuamine, Gordon Research Conference on Marine Natural Products, Ventura, CA, 17 – 21 Feb, 1992.
3. Baker, B. J. Synthetic studies toward papuamine. Annual meeting of the American Society of Pharmacognosy, Williamsburg, VA, 27 – 31 Jul, 1992.
4. Baker, B. J.; Kopitzke, B.; McClintock, J. B.; Yoshida, W. Chemical ecology of the Antarctic sponge *Dendrilla membranosa*. Annual meeting of the American Society of Pharmacognosy, San Diego, CA, 18 – 22, 1993.
5. McClintock, J. B.; Baker, B. J.; Slattery, M.; Hamann, M.; Kopitzke, R.; Heine, J. Chemotactic tube-foot responses of the spongivorous sea star *Perknaster fuscus* to organic extracts from Antarctic sponges. Annual Meeting of the American Society of Zoologists, Los Angeles, CA, 26 – 30 Dec, 1993.
6. Shen, G. Q.; Baker, B. J. Biosynthetic investigations of the eudistomins in the tunicate *Eudistoma olivaceum*. Gordon Research Conference on Marine Natural Products, Ventura, CA, 20 – 25 Feb, 1994.
7. Yoshida, W.; Bryan, P.; Baker, B. J.; McClintock, J. B. Pteroenone, the feeding deterrent substance from the Antarctic pteropod *Clione antarctica*. Gordon Research Conference on Marine Natural Products, Ventura, CA, 20 – 25 Feb, 1994.
8. Moon, B.; Baker, B. J.; McClintock, J. B. Chemistry of *Isodictya erinacea*. Annual meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, Canada, 31 Jul – 4 Aug, 1994.
9. Yoshida, W.; Bryan, P.; Baker, B. J.; McClintock, J. B. Isolation and characterization of pteroenone, a fish deterrent from the Antarctic pelagic pteropod *Clione Antarctica*. Annual meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, Canada, 31 Jul – 4 Aug, 1994.
10. Wardell, L. J.; Hamann, M. T.; Clark, A. M.; Slattery, M.; Andersen, D.; McClintock, J. B.; Baker, B. J. Antarctica: A frontier for the isolation of bioactive marine natural products. Annual meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, Canada, 31 Jul – 4 Aug, 1994.
11. McClintock, J. B.; Baker, B. J.; Slattery, M.; Hamann, M.; Kopitzke, R. W.; Bryan, P. J.; Heine, J.; Yoshida, W. The chemical ecology of shallow-water marine invertebrates in McMurdo Sound, Antarctica Sixth SCAR Symposium, Venice, Italy, 1995.
12. Xie, K.; Baker, B. J. Biosynthetic studies of the eudistomins in *Eudistoma olivaceum*. Gordon Research Conference on Marine Natural Products, Ventura, CA, 25 Feb – 1 Mar, 1996.
13. Jayatilake, G. S.; Baker, B. J.; Green, S.; Huang, M. HIV-1 inhibitory proteinaceous substances from *Verongida* sponges. Annual meeting of the American Society of Pharmacognosy, University of California, Santa Cruz, 27 – 31 Jul, 1996.
14. Holmes, A.; Baker, B. J. Microbial investigations of West Indian gorgonians. Annual meeting of the American Society of Pharmacognosy, University of California, Santa Cruz, 27 – 31 Jul, 1996.
15. Baker, B. J.; McClintock, J. B. Induction of chemical defense in marine sponges. Gordon Research Conference on Marine Natural Products, Ventura, CA, 22 – 27 Feb, 1998.
16. Xie, K.; Baker, B. J. Stable isotope biosynthetic investigations of the eudistomins in *Eudistoma olivaceum*. Gordon Research Conference on Marine Natural Products, Ventura, CA, 22 – 27 Feb, 1998.
17. Baker, B. J.; Moon, B.; McClintock, J. B. Molt inhibition as a mechanism of chemical defense. Gordon Research Conference on Marine Natural Products, Ventura, CA, 22 – 27 Feb, 1998.
18. Furrow, F. B.; Baker, B. J.; McClintock, J. B. Biologically active metabolites from the Antarctic sponge *Guitarra sigmatifera*. Annual meeting of the American Society of Pharmacognosy, Orlando, FL, 19 – 24 Jul, 1998.
19. Furrow, F. B.; McClintock, J. B.; Baker, B. J. Constituents of the Antarctic sponge *Guitarra sigmatifera*. Annual meeting of the American Society of Pharmacognosy, Seattle, WA, 22 – 26 Jul, 2000.

Poster Presentations, Scientific Meetings, continued:

20. Hahm, C.; Singh, M. P.; Janso, J. E.; Grimwade, J.; Leonard, A.; Maiese, W.; Baker, B. J. Chemical analysis of antibiotic activity in Antarctic invertebrate-associated bacteria. MarXPro, Okinawa, Japan, Jun, 2001.
21. Iken, K. B.; Baker, B. J. Ainigmaptilone, a new sesquiterpene from the Antarctic soft coral *Ainigmaptilon antarcticus*. MarXPro, Okinawa, Japan, Jun, 2001.
22. Iken, K. B.; Amsler, C. D.; Hubbard, J. M.; McClintock, J. B.; Baker, B. J. Preliminary results on secondary metabolites from Antarctic brown algae and their ecological relevance. Annual meeting of the Phycological Society of America, 2001. (Abstract: *J. Phycol.* **2001**, 37 (s1), 25–26)
23. Iken, K. B.; Baker, B. J. Ainigmaptilone, a new sesquiterpene from the Antarctic soft coral *Ainigmaptilon antarcticus*. Gordon Research Conference on Marine Natural Products, Ventura, CA, 24 Feb – 1 Mar, 2002.
24. Hahm, C.; Singh, M. P.; Janso, J. E.; Grimwade, J.; Leonard, A.; Maiese, W.; Baker, B. J. Chemical analysis of antibiotic activity in Antarctic invertebrate associated bacteria. Society of Industrial Microbiology, Biotechnology of Microbial Products, Honolulu, Oct, 2002.
25. Park, Y.C.; Baker, B. J. Synthesis of erebusinone. Annual meeting of the American Chemical Society, New Orleans, Mar, 2003.
26. Park, Y. C.; Baker, B. J. Synthesis and bioactivity of erebusinone, a pigment from the Antarctic sponge *Isodictya erinacea*. Castle Conference, University of South Florida, Tampa, FL, Apr, 2003.
27. Park, Y. C.; Baker, B. J. Synthesis and bioactivity of erebusinone, a pigment from the Antarctic sponge *Isodictya erinacea*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 8 – 10 May, 2003.
28. Avancha, K. V.; Ankisetty, S.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. A new polyhalogenated monoterpene from the red alga *Plocamium cartilagineum* collected in Antarctica. Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL, 8 – 10 May, 2003. (Abstract: 109)
29. Win, H.; Baker, B. J. Chemical investigation of the Antarctic brown alga *Cystosphaera jacquinotii*. Castle Conference, University of South Florida, Tampa, FL, Apr, 2003.
30. Nandiraju, S.; Amsler, C. D.; McClintock, J. B.; Baker, B.J. Chemical and biological investigation of the red alga *Delisea pulchra*. Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL, 8 – 10 May, 2003. (Abstract: 111)
31. Ankisetty, S.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. Chemical examination of the Antarctic sponge *Dendrilla membranosa*. Annual meeting of the American Society of Pharmacognosy, Chapel Hill, NC, 2003. (Abstract: P:144)
32. Avancha, K.; Ankisetty, S.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. A New polyhalogenated monoterpene from the Red Alga *Plocamium cartilagineum* collected in Antarctica. Annual meeting of the American Society of Pharmacognosy, Chapel Hill, NC, 2003. (Abstract: P:145)
33. Diyabalanage, T. K.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Three new diterpene glycerides from the Antarctic nudibranch *Austrodoris kerguelenensis*. Annual meeting of the American Society of Pharmacognosy, Chapel Hill, NC, 2003. (Abstract: P:148)
34. Haake, S.; Weiss, S. T.; Ankisetty, S.; Baker, B. J. Chemical Investigation of the Antarctic tunicates, *Distaplia colligans*, *Synoicum sp.* and the Floridian tunicate *Eudistoma sp.* Annual meeting of the American Society of Pharmacognosy, Chapel Hill, NC, 2003. (Abstract: P:150)
35. Nandiraju, S.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. A new halogenated furanone from the Antarctic red alga *Delisea pulchra*. Annual meeting of the American Society of Pharmacognosy, Chapel Hill, NC, 2003. (Abstract: P:195)

Poster Presentations, Scientific Meetings, continued:

36. Win, H. Y.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemical investigation of the Antarctic brown alga *Cystosphaera jacquinotii*. Annual meeting of the American Society of Pharmacognosy, Chapel Hill, NC, 2003. (Abstract: P:171)
37. Swenson, E.; Baker, B. J. Cytotoxicity in Florida Keys sponges. Annual meeting of the American Society of Pharmacognosy, Chapel Hill, NC, 2003.
38. Fairhead, A.; Amsler, C.; McClintock, J.; Baker, B. J. Defending *Desmarestia*: within plant variation in defenses of two ecologically dominant Antarctic brown algae. 25th Annual Southeastern Phycological Colloquy, Duke University Marine Laboratory, Beaufort, NC, 24 – 26 Oct, 2003.
39. Amsler, C. D.; Iken, K. B.; McClintock, J. B.; Amsler, M. O.; Peters, K. J.; Hubbard, J. M.; Baker, B. J. Palatability and chemical defenses of subtidal macroalgae from the Antarctic Peninsula. 25th Annual Southeastern Phycological Colloquy, Duke University Marine Laboratory, Beaufort, NC, 24 – 26 Oct, 2003.
40. Peters, K. J.; Amsler, C. D.; Amsler, M. O.; McClintock, J. B.; Dunbar, R. B.; Baker, B. J. Nutritional content and C:N ratios of Antarctic macroalgae. 25th Annual Southeastern Phycological Colloquy, Duke University Marine Laboratory, Beaufort, NC, 24 – 26 Oct, 2003.
41. Huang, Y. M.; Amsler, M. O.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. An examination of morphological and biological traits of macroalgal species that regulate patterns of distribution and abundance of amphipods in Antarctica. 25th Annual Southeastern Phycological Colloquy, Duke University Marine Laboratory, Beaufort, NC, 24 – 26 Oct, 2003.
42. Diyabalanage, T. K.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmerolide A, a novel polyketide macrolide from the Antarctic tunicate *Synoicum adareanum*. Gordon Research Conference on Marine Natural Products, Ventura, CA, Feb, 2004.
43. Park, Y. C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Tryptophan catabolism in the Antarctic sponge *Isodictya setifera*. Gordon Research Conference on Marine Natural Products, Ventura, CA, Feb, 2004.
44. Pasaribu, A.; Petrie, C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Norselic acid, a new steroid from the Antarctic sponge *Crella* sp. Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL 6 – 8 May, 2004.
45. Park, Y. C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Tryptophan catabolism in the Antarctic sponge *Isodictya setifera*. Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL 6 – 8 May, 2004.
46. Haake, S.; Iken, K.; Baker, B. J. Ainigmaptilone C, a sesquiterpene from the Antarctic soft coral *Ainigmaptilon antarcticus*. Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL, 6 – 8 May, 2004.
47. Huang, Y. M.; Amsler, M. O.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. Morphological and biological traits of Antarctic peninsular macroalgae influencing distribution and abundance of associated amphipods. Annual meeting, Society of Integrative and Comparative Biology, Jan, 2004. (Abstract: *Integ. Comp. Biol.* **2004**, *44*, 572)
48. Huang, Y. M.; Amsler, M. O.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. An examination of morphological and biological traits of dominant macroalgal species that regulate patterns of distribution and abundance of amphipods in Antarctica. *J. Alabama Acad. Sci.*, **2004**, 76.
40. McClintock, J. B.; Amsler, M. O.; Amsler, C. D.; Southworth, K. J.; Petrie, C.; Baker, B. J. Biochemical composition, energy content and chemical antifeedant and antifoulant defenses of the colonial Antarctic ascidian *Distaplia cylindrica*. Annual meeting, Society of Integrative and Comparative Biology, Jan, 2005. (Abstract: *Integ. Comp. Biol.* **2004**, *44*, 726)
50. Heimbegner, J.; Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Bulk isolation of palmerolide A. Castle Conference, University of South Florida, Tampa, FL, 30 Apr, 2005.

Poster Presentations, Scientific Meetings, continued:

51. Leroy, M.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Bioactivity of three Antarctic invertebrates. Castle Conference, University of South Florida, Tampa, FL, 30 Apr, 2005.
52. Alai, J.; Haake, S. M.; Heimbegner, J.; Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Isolation and structure elucidation of a glycoside in the Antarctic marine tunicate *Synoicum adareanum*. Castle Conference, University of South Florida, Tampa, FL, 30 Apr, 2005.
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70. Aumack, C. F.; Backstrom, I. C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Potential chemical defenses against endophytes and epiphytes in Antarctic macroalgae. 28th Annual Southeastern Phycological Colloquy, Wilmington, NC, 3 – 5 Nov, 2006.
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 104. Amsler, M. O.; McClintock, J. B.; Amsler, C. D.; Angus, R. A.; Baker, B. J. An evaluation of sponge-associated amphipods from the Antarctic Peninsula. Xth SCAR International Biology Symposium, Sapporo, Hokkaido, Japan, 26 – 31 Jul, 2009. (Abstract: P-3-38)
 105. Bucolo, P.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Phototactic responses of swimmers of the Antarctic epiphyte *Elachista antarctica*. Xth SCAR International Biology Symposium, Sapporo, Hokkaido, Japan, 26 – 31 Jul, 2009. (Abstract: P-3-40)
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 108. Lebar, M. D.; Baker, B. J. Synthesis and structure reassessment of psammopemmin A. Gordon Research Conference on Marine Natural Products, Ventura, CA, 28 Feb – 5 Mar, 2010.

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109. Maschek, J. A.; Mevers, E. E.; Wilson, N.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. A chemical investigation of the Antarctic nudibranch *Austrodoris kerguelensis*: palmadorins D-U and insight into its secondary metabolomic profile. Gordon Research Conference on Marine Natural Products, Ventura, CA, 28 Feb – 5 Mar, 2010.
110. Burleson, C. L.; Baker, B. J.; Van Vleet, E. S. Bioactive compounds from Florida's harmful algal bloom (HAB) species: *K. brevis* and *P. bahamense*. Annual meeting of the American Society of Pharmacognosy, St. Petersburg, Florida, 10 – 14 Jul, 2010.
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