

## CURRICULUM VITAE

### Bill J. Baker

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#### **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

#### **Other Experience and Professional Memberships:**

1993- Member, Ad hoc, NIH Study Section, SSS-L/BCMB-L (SBIR Drug Discovery, Develop.)  
1995 Member, Ad hoc, NIH Study Section, Med Chem 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 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 Member, NIH Study Section, Chemoprevention  
2004-2006 Member, Palmer Area Users Group  
2006-2009 Chair, Palmer Area Users Group  
2006-2009 Vice President, President, Past President, American Society of Pharmacognosy  
2007- Member, Florida Center of Excellence, Biomolecular Identification & Targeted Therapeutics

#### **Research Interests:**

Analysis of secondary metabolites from marine invertebrates, macroalgae and microorganisms, including chromatographic and spectroscopic characterization; drug discovery, including anti-infective and anti-cancer disease areas 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  
2000 Station Science Leader, Palmer Station, Antarctica

**Memberships in Honor and Professional Societies:**

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

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

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, 39<sup>th</sup> 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):**

Palmer Area Users Group, Ad hoc, 1998; member 2004-2006; Chair 2006-2009  
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):**

Chemoprevention (P01 site visit, Mar 2004)  
Cancer Drug Discovery: Diversity generation and smart assays (May 1999)  
Medicinal Chemistry (Ad hoc, Mar 1995)  
Bioactive Natural Products (Ad hoc, June 1998)  
International Cooperative Biodiversity Group Program (Mar 1998)  
Small Business Innovative Research Program (Ad hoc Member, 1993-current)

**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  
Research Corporation

**Professional Activities, continued:**

Reviewer activities, continued:

**Granting Agencies, continued:**

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:**

Journal of the American Chemical Society

Journal of Chemical Ecology

Journal of Organic Chemistry

Steroids

Journal of Natural Products

Prostaglandins

Tetrahedron

Cellular and Molecular Life Sciences

Tetrahedron Letters

Organic Letters

Marine Ecology Progress Series

Journal of Chemical Education

Journal of Experimental Marine Biology

Bioorganic and Medicinal Chemistry Letters

Bioorganic and Medicinal Chemistry

Phycologia

Tetrahedron Asymmetry

University and Department Service (Current):

University (Research) Diving Control Board (Member)

University (Graduate School) BS/MS Biotechnology Advisory Committee (Member)

College Tenure and Promotion Committee (Member)

Chemistry NMR Advisory Committee (Chair)

Chemistry M.S. and Ph.D. Committees: 8 Ph.D. and 0 M.S. (Chair of 4 Ph.D.)

University of Alabama at Birmingham, Department of Biology, committees: 3 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  $^1\text{H}$  and  $^{13}\text{C}$  NMR are detailed; other MS techniques are introduced as well with supplementation from other texts. The second part of the course is taught from 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

**Teaching Activities, continued:**

## Courses Developed, continued:

and attracts senior undergraduate chemistry and chemical engineering students, graduate chemistry, molecular biology, biotechnology and chemical engineering students. I have taught this one semester course six times.

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 and biochemistry, as well as graduate students in chemistry, marine biology, oceanography, biotechnology and science education. I have taught this one semester course four times.

## 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](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.rice.edu/tea\\_hubbardfrontpage.html](http://tea.rice.edu/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: Assistant 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: Lab Tech, BMS, Puerto Rico.

**Teaching Activities, continued:**

## Thesis and Dissertation Research Supervision, continued:

- 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 *Delesea 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, Univ. MI
- Jamie L. Heimbegner, current. Structural analysis of palmerolides. Expected: 6/09 (PhD)
- Matthew D. Lebar, current. Structural analysis of palmerolides. Expected: 6/09 (PhD)
- J. A. 'Alan' Maschek, current. Chemical investigation of Antarctic algae. Expected: 12/09 (PhD)
- Wai Ma, current. Methods of stereochemical determination. Expected: 6/10 (PhD)
- Cheska Bursleson, current (Co-advisor with Dr. Ted Van Vleet, USF College of Marine Science). Natural products from cultured microalgae. Expected: 6/10 (PhD)

## Postdoctoral Associates:

- Gamini S. Jayatilake, 2003 – 2007. Current Position: Hauser Labs, Colorado
- Sridevi Ankisetty, 2002 – 2004. Current Position: School of Pharmacy, University of Mississippi
- Solomon Weldegirma, 2005 – 2006. Current Position: Instructor, University of South Florida

## Undergraduate Honors Theses:

- 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: Applying to graduate school in Chemistry.
- Jeila Alai, 2006. Structural studies of palmerolide H from the Antarctic tunicate *Synoicum adareanum*. Current Position: Medical School, University of South Florida.

**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 (7E)- and (7Z)-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.

**Peer Reviewed Publications, continued:**

8. Ronald J. Parry, Shyhchen Ju and Bill J. Baker. The synthesis of 5(R)-5[<sup>3</sup>H]-L-ornithine and 5(S)-5[<sup>3</sup>H]-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 Byoungho 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. 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.
19. Hyin He, Palaniappan Kulanthaivel, Bill J. Baker, Kiyomi Kalter, Jim Darges, Divann Cofield, Leslie Wolff and Laurel Adams. New antiinflammatory 9,11-secosterols from the gorgonian *Pseudopterogorgia* sp. *Tetrahedron*, **1995**, 51, 51-58.
20. 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.
21. Bill J. Baker, Bob Koptizke, 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, 1596-99.
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.  $\beta$ -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.

**Peer Reviewed Publications, continued:**

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)<sub>5</sub> 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 leptorhopsis*. *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. 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.
38. 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.
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.

**Peer Reviewed Publications, continued:**

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.
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. 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.
51. 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.
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.
53. James B. McClintock, Margaret O. Amsler, Charles D. Amsler, K. J. Southworth, Chris Petrie, and Bill J. Baker. Biochemical composition, energy content and chemical antifeedant and antifoulant defenses of the circumpolar colonial Antarctic ascidian *Distaplia cylindrica*. *Mar. Biol.*, **2004**, *145*, 885-894.
54. Sridevi Ankisetty, Santhi Nandiraju, Hla Win, Young Chul Park, Charles D. Amsler, James B. McClintock, Jill A. Baker, Thushara Diyabalanage, Albert Pasaribu, Maya P. Singh, William M. Maiese, Rosa D. Walsh, Michael J. Zaworotko and Bill J. Baker. Chemical investigation of predator-deterred macroalgae from the Antarctic peninsula. *J. Nat. Prod.*, **2004**, *67*, 1295-1302.
55. Yoko Nakamura, Hiromasa Kiyota, Bill J. Baker and Shigefumi Kuwahara. First Synthesis of (+)-pteroenone: a defensive metabolite of the abducted Antarctic pteropod *Clione antarctica*. *Synlett*, **2005**, 635-636.
56. Kevin J. Peters, Charles D. Amsler, Margaret O. Amsler, James B. McClintock, Robert B. Dunbar and Bill J. Baker. A comparative analysis of the nutritional and elemental composition of macroalgae from the western Antarctic Peninsula. *Phycologia*, **2005**, *44*, 453-463.
57. Charles D. Amsler, Katrin B. Iken, James B. McClintock, Margaret O. Amsler, Kevin J. Peters, Joanna M. Hubbard, F. Bruce Furrow and Bill J. Baker. A comprehensive evaluation of the palatability and chemical defenses of subtidal macroalgae from the Antarctic peninsula. *Mar. Ecol. Prog. Ser.*, **2005**, *294*, 141-159.
58. V. Anne Fairhead, Charles D. Amsler, James B. McClintock and Bill J. Baker. Within-thallus variation in chemical and physical defenses in two species of ecologically dominant brown macroalgae from the Antarctic Peninsula. *J. Exp. Mar. Biol. Ecol.*, **2005**, *322*, 1-12.

**Peer Reviewed Publications, continued:**

59. James B. McClintock, Charles D. Amsler, Bill J. Baker and Robert W. M. van Soest. An overview of the ecology of Antarctic marine sponges. *Integ. Comp. Biol.*, **2005**, *45*, 359-368.
60. V. Anne Fairhead, Charles D. Amsler, James B. McClintock and Bill J. Baker. Variation in phlorotannin content within two species of brown macroalgae (*Desmarestia anceps* and *D. menziesii*) from the Antarctic Peninsula. *Polar Biol.*, **2005**, *28*, 680-686.
61. Charles D. Amsler, Ijeoma N. Okogbue, Dori M. Landry, Margaret O. Amsler, James B. McClintock and Bill J. Baker. Potential chemical defenses against diatom fouling in Antarctic macroalgae. *Bot. Mar.*, **2005**, *48*, 318-322.
62. Eric J. Sorscher, J. Harris, Mariah Alexander, A. Rottgers, K. Hardy, Selvarangan Ponnazhagen, James F. Collawn, James B. McClintock, Charles D. Amsler, A. Webster, Joseph Maddry, Bill J. Baker, and Jeong S. Hong. Activators of viral gene expression in polarized epithelial monolayers identified by rapid-throughput drug screening. *Gene Therapy*, **2006**, *13*, 781-788.
63. Yusheng M. Huang, James B. McClintock, Charles D. Amsler, Kevin J. Peters and Bill J. Baker. Feeding rates of common Antarctic gammarid amphipods on ecologically important sympatric macroalgae. *J. Exp. Mar. Biol. Ecol.*, **2006**, *329*, 55-65.
64. James B. McClintock, Margaret O. Amsler, Charles D. Amsler and Bill J. Baker. The biochemical composition, energy content and chemical antifeedant defenses of the common Antarctic Peninsular sea stars *Granaster nutrix* and *Neosmilaster georgianus*. *Polar Biol.*, **2006**, *29*, 615-623.
65. Thushara Diyabalanage, Charles D. Amsler, James B. McClintock and Bill J. Baker. Palmerolide A, a cytotoxic macrolide from the Antarctic tunicate *Synoicum adareanum*. *J. Am. Chem. Soc.*, **2006**, *128*, 5630-5631.
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2. Matthew D. Lebar and Bill J. Baker. On the stereochemistry of palmerolide A. Submitted to *Tetrahedron Lett.*
3. Young Chul Park, Solomon T. Weldegirma, Charles D. Amsler, James B. McClintock and Bill J. Baker. Synthesis of tryptophan catabolite pigments from Antarctic sponges of the genus *Isodictya*. Submitted to *Tetrahedron*.

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7. DowElanco, Inc., Indianapolis, IN. Marine Invertebrate Derived Agrochemicals, \$150,000/5 yr. (1992).
8. Sphinx Pharmaceuticals, Durham, NC. PKC Inhibition by Marine Natural Products, \$50,000/1 yr. (1992).
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76. Mondy, W. L.; Baker, B. J.; Garey J. R. Pigmentation producing cells associated with the aposomatic coloration found in the Ectainascidin producing ascidian *Ecteinascidia turbinata*. Presented at the 2004 Florida Annual Meeting and Exposition of the American Chemical Society, 2004, 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*. Presented at the 2004 Florida Annual Meeting and Exposition of the American Chemical Society, 2004, 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*. Presented at the 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. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2005. (Student Paper Award)
80. Lebar, M. D.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Degradation Studies of Natural Products Utilizing Ozonolysis. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2005.
81. Judge, S.; Swenson, J. E.; Baker, B. J. Antarctic microbial bio-prospecting. Presented at the 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. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2005.
83. Miyata, Y.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. A Novel Ecdysteroid from the Antarctic Tunicate *Synoicum adareanum*. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2005.
84. Heimbegner, J.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Isolation of palmerolide A from *Synoicum adareanum*. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2005. (Student Paper Award)

**Oral Presentations, Before Scientific Organizations, continued:**

85. Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmerolides A, C, D and E, a series of new cytotoxic macrolides from the Antarctic tunicate *Synoicum adareanum*. Presented at the Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 April 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. Presented at the Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 April 2005.
87. Lebar, M.; Amsler, C. D.; McClintock J. B.; Baker, B. J. Degradation studies of natural products utilizing ozonolysis. Presented at the Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 April 2005.
88. Miyata, Y.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. A Novel Ecdysteroid from the Antarctic tunicate *Synoicum adareanum*. Presented at the Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 April 2005.
89. 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*. Presented at the 2005 Annual Meeting of the American Society of Pharmacognosy, Corvallis, OR, 22 to 26 July. (Student Paper Award)
90. 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. Presented at the Southeastern Phycological Congress, Ft. Pierce, FL, 4-6 Nov 2005.
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. Presented at the 2005 PacifiChem meeting, Honolulu, HI, Dec. 15-20, Abstract
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. Published 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. Published 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, April 6-10, 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 antifeedant and antifoulant defenses of a colonial Antarctic ascidian. Benthic Ecology Meeting, Williamsburg, VA, April 6-10, 2005.
96. Weldegirma, S. T.; Park, Y. C.; Baker, B. J. Synthesis of <sup>13</sup>C-labeled erebusinone – studying the biosynthetic role of erebusinone. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 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. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2006.
98. Ma, W. S.; Baker, B. J. Determination of the absolute configuration of tertiary alcohols by <sup>13</sup>C NMR spectroscopy using chiral lanthanide shift reagents. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2006.

**Oral Presentations, Before Scientific Organizations, continued:**

99. 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. Presented at the Tampa Bay Section, American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2006. (Student Paper Award)
100. Lebar, M. D.; Baker, B. J. Chemical transformations of tylosin, an antibiotic agent. Presented at the Tampa Bay Section, American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2006.
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*. Presented at the Tampa Bay Section, American Chemical Society Mini-symposium, St. Petersburg, FL, 15 April 2006. (Student Paper Award)
102. Lebar, M.; Baker, B. J. Chemical transformations of tylosin, an antibiotic agent. Presented at the Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 29 April 2006.
103. Heimbegner, J.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemical Investigation of *Synoicum adareanum*. Presented at the Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 29 April 2006. (Student Paper Award)
104. Baker, B. J. Recent advances in the development of the palmerolides. Presented at the 55<sup>th</sup> 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 <sup>13</sup>C-labeled erebusinone and erebusinonamine. Presented at the 2006 Annual Meeting of the American Society of Pharmacognosy, Arlington, VA, 5-9 Aug.
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, March 15-18, 2006. *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*. 12<sup>th</sup> International Echinoderm Conference, Durham, NH, August 7-11, 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. Presented at the 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 <sup>13</sup>C NMR spectroscopy in the presence of chiral lanthanide shift reagents (CLSR). Presented at the 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. Presented at the 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. Presented at the 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. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 9 Mar 2007.
113. 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. Presented at the Tampa Bay Section of the American Chemical Society Mini-symposium, St. Petersburg, FL, 9 Mar 2007.

**Oral Presentations, Before Departmental Audiences:**

Chemistry Department, University of Hawaii, Honolulu, HI, August, 1986.  
Chemistry Department, University of Hawaii, Honolulu, HI, October, 1986.  
Department of Med. Chem. and Pharmacognosy, Univ. of Houston, Houston, TX, Nov 1987.  
Department of Chemistry, Calif. Polytechnic State University, San Luis Obispo, CA, Mar 1988.  
Department of Chemistry, University of North Carolina, Wilmington, NC, Feb 1989.  
Department of Chemistry, Florida Institute of Technology, Melbourne, FL, Mar 1989.  
Department of Chemistry, Florida Institute of Technology, Melbourne, FL, Apr 1990.  
Department of Biological Sciences, Florida Institute of Technology, Melbourne, FL, Apr 1990.  
Florida Organic Faculty, University of Florida, Gainesville, FL, Mar 1991.  
Department of Science, Daytona Beach Community College, Daytona Beach, FL, Mar 1991.  
Department of Physical Sciences, Barry University, Miami, FL, Apr 1991.  
Department of Chemistry, University of Central Florida, Orlando, FL, Sept 1991.  
Departments of Chemistry and Marine Biology, Eckerd College, St. Petersburg, FL, Oct 1991.  
Sphinx Pharmaceuticals, Durham, NC, Nov 1991.  
Department of Chemistry, San Jose State University, San Jose, CA, Feb 1992  
Department of Chemistry, Calif. Polytechnic State University, San Luis Obispo, CA, Feb 1992.  
Department of Chemistry, Stetson University, Deland, FL, Mar 1992.  
Fermentation Branch, Eli Lilly and Company, Indianapolis, IN, Mar 1992.  
Discovery Research, DowElanco, Indianapolis, IN, Mar 1992.  
Crary Laboratory, McMurdo, Antarctica, Oct 1992.  
McMurdo Community, Antarctica, Nov 1992.  
Department of Oceanography, Florida Tech, Melbourne, FL, Jan 1993.  
Orlando Section, ACS, Melbourne, FL, Jan 1993.  
Department of Chemistry, Florida Atlantic University, Boca Raton, FL, Feb 1993.  
Fermentation Branch, Eli Lilly and Company, Indianapolis, IN, Mar 1993.  
Discovery Research, DowElanco, Indianapolis, IN, Mar 1993.  
Center for Marine Conservation, Grant, FL, Sept 1993.  
National Cancer Institute, Drug Discovery Branch, Ft. Dietrich, VA, Sept 1993.  
Department of Biological Sciences, Florida Tech, Melbourne, FL, Sept 1993.  
Crary Laboratory, McMurdo, Antarctica, Oct 1993.  
Florida Tech HS Extension Class Jun 1994  
Florida Tech HS Extension Class Jun 1995  
RiboGene June 1995  
ZymoGenetics July 1995  
Banyon College Aug 1995  
DowElanco Feb 1996  
Crary Science Lecture, McMurdo Station, Antarctica, Oct 1996  
McMurdo Station, Nov 1996  
Florida Organic Faculty, Feb 1997  
Department of Chemistry, Hamilton College, Clinton, NY, Feb 1997  
Crary Science Lecture, McMurdo Station, Antarctica, Oct 1997  
Hauser Chemical Company, Boulder, CO, Feb 1998  
Department of Chemistry, Washington State University, Pullman, WA, Mar 1998  
Florida Tech College of Science and Liberal Arts Science Lecture Series, Nov 1998  
Phytera, Inc., Boston, MA, Nov 98  
Department of Pharmacognosy and Medicinal Chemistry, University of Chicago, Chicago, IL, Jan 1999

**Oral Presentations, Before Departmental Audiences, continued:**

Department of Chemistry, University of South Florida, Tampa, FL, Jan 1999  
Whitney Laboratory, University of Florida, St. Augustine, FL, Feb 2000.  
Palmer Station, Mar 2000  
Moffitt Cancer Center, University of South Florida, Dec 2000  
Hamilton College, Feb 2001  
Palmer Station, Nov 2001  
Tampa Bay Section of the American Chemical Society, Tampa, Florida, Jan 2002  
Department of Biochemistry University of South Florida, Tampa, Florida, Feb 2002  
Department of Chemistry, Florida Southern College, Mar 2002  
Department of Biology and Chemistry, City University of Hong Kong, Jul 2002  
Key Laboratory of Marine Biotechnology, Xiamen, China, Jul 2002  
Department of Biology, University of South Florida, Tampa, Florida, Sept 2002  
Department of Microbial Biotechnology, Hanoi University of Education, Hanoi, Vietnam, Oct 2002  
Department of Chemistry, University of Alabama at Birmingham, Birmingham, AL, Nov 2002  
Department of Chemistry, Birmingham Southern, Birmingham, AL, Nov 2002  
Palmer Station, Jan 2002  
Department of Chemistry, University of Miami, Feb 2003  
Department of Chemistry, Florida Southern College, Apr 2003  
Palmer Station, Mar 2004  
Moffitt Drug Discovery Group Sept 2004  
Department of Chemistry, Lyon College, Nov 2004  
Department of Chemistry, Arkansas State University, Nov 2004  
Department of Chemistry, University of Memphis, Nov 2004  
Department of Biology, University of South Alabama, Nov 2004  
Crop Protection Division, DuPont, Wilmington, DE, Dec 2004  
Department of Cutaneous Oncology, Moffitt Cancer Center, Tampa, FL Mar 2005  
Developmental Therapeutics Program, National Cancer Institute, Frederick, MD Sept 2005  
Sigma Xi, Eckerd College, Nov 2005  
Moffitt Cancer Center, Drug Discovery Group, Mar 2006  
Department of Chemistry, University of South Florida, Sept 2006  
Oncology Group, Reata Pharmaceuticals, Sept 2006  
Department of Biological Sciences, University of South Florida, Oct 2006  
Department of Environmental and Occupational Health, Nov 2006  
USF Minority Pre-Professional Science Society, Jan 2007  
University of South Florida Chemistry Department Student Affiliates, Feb 2007  
Palmer Station, Mar 2007

**Presentations, High School and Civic Organizations:**

Clinton High School, Clinton NY 1992  
Turtle Coast Sierra Club, Melbourne FL 1993  
Marine Resources Council, Melbourne FL 1994  
Cocoa High School, Cocoa FL 1994  
Melbourne Hospital High School, Melbourne FL 1995  
Belize High School Teachers Group June 1993  
Turtle Coast Turtle Protection Society Feb 1996  
Floridahomakers, Melbourne Beach FL Jun 1996

**Presentations, High School and Civic Organizations, continued:**

De Laura Junior High School, Satellite Beach FL 1997  
Panhellenic Society, Melbourne Beach FL 1997  
Southwest Junior High School, Melbourne FL 1997  
Marine Resources Council 1997  
De Laura Junior High School, Satellite Beach, FL 1998  
Great Outdoors, Titusville FL 1998  
Columbia Middle School, Melbourne, FL 1998  
Courtney Springs, Cocoa Beach FL Nov 1998  
Courtney Springs, Cocoa Beach FL Jan 1999  
De Laura Junior High School, Satellite Beach, FL 1999  
Sea View Junior High School, Satellite Beach FL Oct 2000  
De Laura Junior High School, Satellite Beach FL Mar 2001  
Museum of Science and Industry, Tampa FL 2002  
Montessori Day House, Tampa FL 2002  
Pigeon Key Marine Lab, Pigeon Key FL 2002  
Freedom High School, Tampa FL Apr 2003  
Freedom High School, Tampa FL Apr 2005  
Lakeland High School, Lakeland FL Oct 2005  
Whorton High School, Tampa FL Nov 2005  
Freedom High School, Tampa FL April 2006  
Vanguard High School, Lake Wales FL May 2006  
Lakeland High School, Lakeland FL Oct 2006  
Brewster Technical College, Tampa FL Oct 2006

**Poster Presentations:**

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. Winter 1990 Gordon Conference on Marine Natural Products, Feb 19-23, 1990, Ventura, CA.
2. Baker, B. J. Synthetic studies toward papuamine, Winter 1992 Gordon Conference on Marine Natural Products, Feb 17-21, 1992, Ventura, CA.
3. Baker, B. J. Synthetic studies toward papuamine. 33rd meeting of the American Society of Pharmacognosy, July 27-31, 1992, Williamsburg, VA
4. Baker, B. J.; Kopitzke, B.; McClintock, J. B.; Yoshida, W. Chemical ecology of the antarctic sponge *Dendrilla membranosa*. 34<sup>th</sup> Annual meeting of the American Society of Pharmacognosy, July 18- 22, 1993, San Diego, CA.
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. 1993 Annual Meeting of the American Society of Zoologists, December 26- 30, 1993, Los Angeles, CA.
6. Shen, G. Q.; Baker, B. J. Biosynthetic investigations of the eudistomins in the tunicate *Eudistoma olivaceum*. Winter 1994 Gordon Research Conference on Marine Natural Products, Feb 21-25, 1994, Ventura, CA.
7. Yoshida, W.; Bryan, P.; Baker, B. J.; McClintock, J. B. Pteroenone, the feeding deterrent substance from the antarctic pteropod *Clione antarctica*. Winter 1994 Gordon Research Conference on Marine Natural Products, Feb 21-25, 1994, Ventura, CA.

**Poster Presentations, continued:**

8. 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*. 35<sup>th</sup> meeting of the American Society of Pharmacognosy, July 31-Aug 4, 1994, Halifax, Canada.
9. Moon, B.; Baker, B. J.; McClintock, J. B. Chemistry of *Isodictya erinacea*. 35<sup>th</sup> meeting of the American Society of Pharmacognosy, July 31-Aug 4, 1994, Halifax, Canada.
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 1994 International Congress on Natural Products Research, July 31 to Aug 4, Halifax, Nova Scotia.
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, Ventura, CA, Feb 1996.
13. Jayatilake, G. S.; Baker, B. J.; Green, S.; Huang, M. HIV-1 inhibitory proteinaceous substances from *Verongida* sponges. 37<sup>th</sup> Annual meeting of the American Society of Pharmacognosy, University of California, Santa Cruz, July 27-31, 1996.
14. Holmes, A.; Baker, B. J. Microbial investigations of West Indian gorgonians. 37<sup>th</sup> Annual meeting of the American Society of Pharmacognosy, University of California, Santa Cruz, July 27-31, 1996.
15. Baker, B. J.; McClintock, J. B. Induction of chemical defense in marine sponges. Marine Natural Products Gordon Research Conference, Feb 22-27, 1998, Ventura, CA.
16. Xie, K.; Baker, B. J. Stable isotope biosynthetic investigations of the eudistomins in *Eudistoma olivaceum*. Marine Natural Products Gordon Research Conference, Feb 22-27, 1998, Ventura, CA.
17. Baker, B. J.; Moon, B.; McClintock, J. B. Molt inhibition as a mechanism of chemical defense. Marine Natural Products Gordon Research Conference, Feb 22-27, 1998, Ventura, CA.
18. Furrow, F. B.; Baker, B. J.; McClintock, J. B. Biologically active metabolites from the antarctic sponge *Guitarra sigmatifera*. 39<sup>th</sup> Annual meeting of the American Society of Pharmacognosy, Orlando, FL, July 19-24, 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, Jul 22-26, 2000.
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. Published 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, Ventura, CA, Feb 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. 2003 Annual meeting of the American Chemical Society, New Orleans, Mar 2003.

**Poster Presentations, continued:**

26. Park, Y. C.; Baker, B. J. Synthesis and Bioactivity of Erebusinone, a Pigment from the Antarctic Sponge *Isodictya erinacea*. 2003 Castle Conference, University of South Florida, Tampa, FL, April 2003.
27. Win, H.; Baker, B. J. Chemical investigation of the Antarctic brown alga *Cystospaehera jacquinotii* 2003 Castle Conference, University of South Florida, Tampa, FL, April 2002.
28. Park, Y. C.; Baker, B. J. Synthesis and Bioactivity of Erebusinone, a Pigment from the Antarctic Sponge *Isodictya erinacea*. FAME 2003, Orlando, FL 8-10 May 2003.
29. 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. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 8-10 May 2003. Abs 109
30. Nandiraju, S.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemical and biological investigation of the red alga *Delisea pulchra*. American Chemical Society, Florida Annual Meeting and Exposition, Orlando, FL, 8-10 May 2003. Abs 111
31. Ankisetty, S.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. Chemical examination of the antarctic sponge *Dendrilla membranosa*, American Society of Pharmacognosy (ASP) meeting, 2003, Chapel Hill, North Carolina, Chapel Hill, USA. Abs 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. American Society of Pharmacognosy (ASP) meeting, 2003, Chapel Hill, North Carolina, Chapel Hill, USA. Abs 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*. American Society of Pharmacognosy (ASP) meeting, 2003, Chapel Hill, North Carolina, Chapel Hill, USA. Abs P:148
34. Haake, S.; Weiss, S. T.; Ankisetty, S.; Baker, B. J. Chemical Investigation of the Antarctic tunicates, *Distapalia colligans*, *Synoicum sp.* and the Floridian tunicate *Eudistoma sp.* American Society of Pharmacognosy (ASP) meeting, 2003, Chapel Hill, North Carolina, Chapel Hill, USA. Abs P:150
35. Nandiraju, S.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. A new halogenate furanone from the antarctic red alga *Delisea pulchra*. American Society of Pharmacognosy (ASP) meeting, 2003, Chapel Hill, North Carolina, Chapel Hill, USA. Abs P:195
36. Win, H. Y.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemical investigation of the Antarctic brown alga *Cystospaehera jacquinotii*. American Society of Pharmacognosy (ASP) meeting, 2003, Chapel Hill, North Carolina, Chapel Hill, USA. Abs P:171
37. 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, 24-26 October 2003, Duke University Marine Laboratory, Beaufort, NC.
38. Fairhead, A.; Amsler, C.; McClintock, J.; Baker, B. J.. 2003. Defending Desmarestia: within plant variation in defenses of two ecologically dominant antarctic brown algae. 25<sup>th</sup> Annual Southeastern Phycological Colloquy, Duke University Marine Laboratory, Beaufort, North Carolina.
39. Peters, K. J.; Amsler, C. D.; Amsler, M. O.; McClintock, J. B.; Dunbar, R. B.; Baker, B. J. 2003. Nutritional content and C:N ratios of antarctic macroalgae. 25<sup>th</sup> Annual Southeastern Phycological Colloquy, Duke University Marine Laboratory, Beaufort, North Carolina.
40. Huang, Y. M.; Amsler, M. O.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. 2003. An examination of morphological and biological traits of macroalgal species that regulate patterns of distribution and abundance of amphipods in Antarctica. 25<sup>th</sup> Annual Southeastern Phycological Colloquy, Duke University Marine Laboratory, Beaufort, North Carolina.

**Poster Presentations, continued:**

41. Diyabalanage, T. K.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmerolide A, a novel polyketide macrolide from the Antarctic tunicate *Synoicum adareanum*. GRC 2004
42. Park, Y. C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Tryptophan catabolism in the Antarctic sponge *Isodictya setifera*. GRC 2004.
43. Pasaribu, A.; Petrie, C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Norselic acid, a new steroid from the Antarctic sponge *Crella* sp. Presented at the 2004 Florida Annual Meeting and Exposition of the American Chemical Society, 2004, Orlando, FL 6-8 May 2004.
44. Park, Y. C.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Tryptophan catabolism in the Antarctic sponge *Isodictya setifera*. Presented at the 2004 Florida Annual Meeting and Exposition of the American Chemical Society, 2004, Orlando, FL 6-8 May 2004.
45. Haake, S.; Iken, K.; Baker, B. J. Ainigmaptilone C, a sesquiterpene from the Antarctic soft coral *Ainigmaptilon antarcticus*. Presented at the 2004 Florida Annual Meeting and Exposition of the American Chemical Society, 2004, Orlando, FL 6-8 May 2004.
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52. LeRoy, M.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Bioactivity of three antarctic invertebrates. Presented at the Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 April 2005.
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54. Maschek, A.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Bioassay guided isolation of 23 Antarctic macroalgae. Presented at the Fourth Annual Castle Conference, University of South Florida, Tampa, FL, 30 April 2005.
55. Lebar, M.; Maschek, A.; Diyabalanage, T.; Weldegirma, S. T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Stereochemical analyses of palmerolides by degradation studies. Presented at the 2005 Annual Meeting of the American Society of Pharmacognosy, Corvallis, OR, 22 to 26 July.

**Poster Presentations, continued:**

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57. 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. Presented at the 8<sup>th</sup> International Phycological Congress, 13 – 19 Aug., 2005, Durban, South Africa. *Phycologia* **2005**, *44* (s1), 2.
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61. Centko, R.; Maschek, J. A.; Baker, B. J. Possible biosynthetic pathways for isocyanides. Presented at the 2006 Castle Conference, Tampa, FL, Apr 2006. (Student paper award)
62. Leroy, M.; Shah, E.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Biological activity of three antarctic invertebrates. Presented at the 2006 Castle Conference, Tampa, FL, Apr 2006.
63. Heimbegner, J.; Diyabalanage, T.; Miyata, Y.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Chemical investigation of *Synoicum adareanum*. USF Graduate Research Symposium, Tampa, FL, Apr 2006.
64. Maschek, J. A.; Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmadorins A-F, a new series of diterpenoid glycerides from *Austrodoris kerguelenensis*. USF Graduate Research Symposium, Tampa, FL, Apr 2006.
65. Lebar, M.; Baker, B. J. Palmerolide Stereochemical analyses: Degradation studies of tylosin as a model compound. Presented at the 2006 Annual Meeting of the American Society of Pharmacognosy, Arlington, VA, 5 – 9 Aug.
66. Centko, R.; Maschek, A.; Baker, B. J. Two chemomorphs of the tropical marine sponge *Ciocalypta* sp. Presented at the 2006 Annual Meeting of the American Society of Pharmacognosy, Arlington, VA, 5 – 9 Aug.
67. Heimbegner, J.; Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. The isolation, structure elucidation, and stereochemical assignment of palmerolide C. Presented at the 2006 Annual Meeting of the American Society of Pharmacognosy, Arlington, VA, 5 – 9 Aug.
68. Ma, W.; Baker, B. J. Determination of the absolute configuration of tertiary alcohols by <sup>13</sup>C NMR spectroscopy using chiral lanthanide shift reagent. Presented at the 2006 Annual Meeting of the American Society of Pharmacognosy, Arlington, VA, 5 – 9 Aug.
69. Maschek, A.; Diyabalanage, T.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Palmadorins, a new series of diterpenoid glycosides from *Austrodoris kerguelenensis*. Presented at the 2006 Annual Meeting of the American Society of Pharmacognosy, Arlington, VA, 5 – 9 Aug.
70. Huang Y.; Amsler, M. O.; McClintock, J. B.; Amsler, C. D.; Baker, B. J. Patterns of gammarid amphipod abundance and species composition associated with dominant subtidal macroalgae along the western Antarctic Peninsula. Presented at the 28<sup>th</sup> Annual Southeastern Phycological Colloquy, Wilmington, NC, 3-5 Nov, 2006.

**Poster Presentations, continued:**

71. 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. Presented at the 28<sup>th</sup> Annual Southeastern Phycological Colloquy, Wilmington, NC, 3-5 Nov, 2006.
72. Bucolo, P.; Amsler, C. D.; McClintock, J. B.; Baker, B. J. Phototactic responses of *Elachista antarctica* Skottsberg swimmers. Presented at the 28<sup>th</sup> Annual Southeastern Phycological Colloquy, Wilmington, NC, 3-5 Nov, 2006.
73. Lebar, M.; Baker, B. J. On the stereochemistry of palmerolide A. Presented at the 2007 Annual Meeting of the American Society of Pharmacognosy, Portland, ME, 14 – 18 Jul.
74. Ma, W. S.; Baker, B. J. Determination of absolute configuration of tertiary alcohols by <sup>13</sup>C NMR spectroscopy in the presence of chiral lanthanide shift reagents (CLSR). Presented at the 2007 Annual Meeting of the American Society of Pharmacognosy, Portland, ME, 14 – 18 Jul.
75. 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. Presented at the 2007 Annual Meeting of the American Society of Pharmacognosy, Portland, ME, 14 – 18 Jul.
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77. 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*: Tra<sup>13</sup>Cking the tryptophan pathway. Presented at the 2007 Annual Meeting of the American Society of Pharmacognosy, Portland, ME, 14 – 18 Jul.
78. Riesenfeld, C. S.; Murray, A. E.; Baker, B. J. Evidence for biosynthesis of palmerolide natural products by polyketide synthases within bacterial symbionts of the Antarctic tunicate *Synoicum adareanum*. Presented at the 2007 annual meeting of the American Society of Microbiology, Toronto, Canada, May 21-25, Abstract I-027.
79. Monks, A.; Fer, N. D.; Shoemaker, R. H.; Cardellina, J. H., II; Baker, B. J. Transcriptional profiling of palmerolide A, a putative inhibitor of V-ATPase, indicates perturbation of cholesterol biosynthesis and HIF-1 $\alpha$  regulated genes. Spring Research Festival, National Cancer Institute, Frederick, MD, May 13-14 2007, Abstract DT12.