

CURRICULUM VITAE

Name and Title: James Bruce McClintock
Endowed University Professor of Polar and Marine Biology

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Personal Data:

Born: February 13, 1955, Ann Arbor, Michigan

Citizenship: U.S.A.

Marital Status: Married, two children

Web site www.uab.edu/biology/mcclintock

Education:

BA: University of California, Santa Cruz (1978); Biology. Senior Thesis: Variations in densities, distributions, and growth of three intertidal populations of *Strongylocentrotus purpuratus* (Stimpson) in relation to differences in intertidal height, temperature, and food availability. 17 pp.

MA: University of South Florida (1980); Zoology. Master Thesis: An optimization study of the feeding behavior of *Luidia clathrata* (Say) (Echinodermata: Asteroidea). 52 pp.

Ph.D.: University of South Florida (1984); Biology. Doctoral Dissertation: An optimization study of the feeding behavior of *Luidia clathrata* (Say) (Echinodermata: Asteroidea). 175 pp.

Employment:

1984–1987 Postdoctoral Research Fellow, Institute of Marine Sciences, University of California, Santa Cruz

1986–1987 Visiting Faculty Member, Moss Landing Marine Laboratories, Moss Landing, California

1987–1993 Assistant Professor, Department of Biology, University of Alabama at Birmingham

1993–1997	Associate Professor, Department of Biology, University of Alabama at Birmingham
1997–present	Full Professor, Department of Biology, University of Alabama at Birmingham
1998–1999	Interim Dean of Natural Sciences and Mathematics, University of Alabama at Birmingham
1999–2003	Dean of Natural Sciences and Mathematics, University of Alabama at Birmingham
2001–present	Endowed Professor of Polar and Marine Biology, University of Alabama at Birmingham
2003–2005	Interim Dean of the Graduate School, University of Alabama at Birmingham
2003–present	University Professor, University of Alabama at Birmingham

Honors and Awards:

Honors in major, University of California, Santa Cruz
College honors, University of California, Santa Cruz
Tuition fellowship, University of South Florida
Phi Sigma (1979–present; President of Beta Tau Chapter 1983–1984)
Sigma Xi (1979–present)
Bermuda Biological Station Educational Scholarship (offered 1982)
Smithsonian Postdoctoral Fellowship (offered 1986)
Omicron Delta Kappa 1989
UAB Ellen Abrams Ingalls Excellence in Classroom Teaching Recognition– School of Natural Sciences and Mathematics (1989)
Honorary Member Golden Key National Honor Society (1992)
Carmichael Award for outstanding publication, Alabama Academy of Science (1992)
Honorary Member Phi Kappa Phi (1993)
Caroline P. and Charles W. Ireland Prize for outstanding UAB faculty scholar (1993)
United States Board on Geographic Names designated the geographic feature “McClintock Point” in Western McMurdo Sound, Antarctica (October 6, 1998)
Elected Fellow of the American Association for the Advancement of Science (1999)
Wright A. Gardner Award for Outstanding Scientist in Alabama, Alabama Academy of Science (2001)
Elected Board of Trustees Member, McWane Science Center, Birmingham (2001–2006)
Tyge Christensen Award for best 2000–2001 paper published in *Phycologia* (2002)
Named “University Professor”, University of Alabama at Birmingham (2003–present)
CASE Award (Council for the Advancement and Support of Education for the UAB in Antarctica Web Site) (2005)

Raimondi Lecture Award, Congress of Neurological Surgeons (2005)
“Live the Dream” Award – Highest Award bestowed by Greater Birmingham Chamber of Commerce (2008)
Elected Fellow of the Alabama Academy of Sciences (2011)
UAB Provost’s Award for Faculty Excellence in Academic Engagement and Global Citizenship (2013)
Appointed to the Board of Advisors, E.O. Wilson Biodiversity Foundation (2015 – present)
UAB Odessa Woolfolk Community Service Award, Birmingham, Alabama (2015)
Elected Trustee of The Nature Conservancy, Alabama (2016 – present)
Finalist, Reed Environmental Writing Award. *A Naturalist Goes Fishing* (softback 2016)
Elected Fellow of the Explorer's Club (2016)
Scientific Committee on Antarctic Research (SCAR) Inaugural Medal for Excellence in Antarctic Education and Communication (SCAR represents 43 nations) (2018)
Finn Ronne Memorial Award (for extraordinary work in pioneering Antarctic knowledge in the fields of marine chemical ecology and climate change research, and for successfully communicating these findings on a global scale). The Explorer’s Club, NYC (2019)

Memberships:

Society of Integrative and Comparative Biology
American Association for the Advancement of Science
Sigma Xi
The Antarctic Society
The Explorers Club

Selected Community Outreach Activities

Up to twenty invited presentations per year to K–12 and university student group, civic clubs (Rotary, Civitan, etc.), McWane Center groups, and volunteer agencies (hospitals, retirement homes, church groups, scout groups, etc.).

UAB WOW Antarctic interactive web site (www.uab.wow.edu). Over 500,000 hits on site during the 2001–2002 Antarctic research field season.

“UAB Antarctic Experience” exhibit featured at the McWane Center (4000 square feet of exhibited materials) – November 2001 – April 2002 (over 100,000 visitors).
Research featured in local news media outlets including The Birmingham News, Post Herald, Birmingham Magazine, WBHM and WZZK radio, etc.

UAB Interactive Antarctic Educational Web Program – www.antarctica.uab.edu. Two time national award winning web site (CASE awards in 2005 and 2008)

Antarctic web program “Jamie’s Antarctic Journal” designed for middle school science teachers and students (http://www.aptv.org/AptPlus/antarctica_journal/teacher/index.htm)

UAB Facebook Live – Antarctic climate change and the break-up of the Larson C ice sheet (2017). Interviewed from Antarctica on the NPR Morning Edition with David Greene (2017)

National Media Coverage

The following national media have covered aspects of my scientific research or educational outreach: CNN News, Science News Magazine, National Geographic Magazine, Discover Magazine, Chicago Tribune, Chronicle of Higher Education, Wall Street Journal, Washington Post, Los Angeles Times, The Economist, Birmingham News, Birmingham Post Herald, Encyclopedia Britannica, Smithsonian Magazine, Southern Living Magazine, Smithsonian Magazine, Scientific American, AAAS Podcast, NPR Diane Rehm Show, NPR Morning Edition with David Greene, NPR On Point with Tom Ashbrook, The Weather Channel (TV), The Weather Channel Podcast with Marshall Shepherd, The Moth Radio Hour, TEDx Birmingham

International Media Coverage

Featured interview on climate change in *Globe Trekkers* international television series for episode in Antarctica.

Invited Lectures:

University of South Florida, Tampa (1984)
National Science Foundation, McMurdo, Antarctica (1984)
University of California, Davis (1985)
Scripps Institute of Oceanography, University of California San Diego (1986)
University of California Berkeley (1986)
Moss Landing Marine Laboratory, California State University (1986)
Williams College, Massachusetts (1986)
Bodega Marine Laboratory, University of California, Davis (1986)
California State University, Hayward (1987)
University of Southwestern Louisiana (1987)
University of Alabama at Birmingham (1987)
Auburn University, Alabama (1987)
Bloomsburg University, Pennsylvania (1988)
University of Alabama in Huntsville (1988)
Marine Environmental Science Consortium, Dauphin Island Sea Laboratory (1988)
University of Alabama, Tuscaloosa (1988)
Sigma Xi Scientific Research Society, University of Alabama at Birmingham (1989)
American Association of University Women, University of Alabama at Birmingham (1989)
National Science Foundation, McMurdo, Antarctica (1989)
Auburn University, Alabama (1990)
Lake Forest College, Illinois (1990)
Board of Trustees, University of Alabama (1990)
Presidential Council, University of Alabama at Birmingham (1990)
International Student Organization, University of Alabama at Birmingham (1990)
International Women's Organization, University of Alabama at Birmingham (1990)
Phi Sigma Honor Society, University of Alabama at Birmingham (1990)
Department of Surgery, University of Alabama at Birmingham (1991)
Mississippi State University (1991)

Benthic Ecology Meeting, Williamsburg, Virginia (1991)
NSF International Symposium on Antarctic Science, Punta Arenas, Chile (1992)
Keynote Speaker, Golden Key Honor Society, University of Alabama at Birmingham (1992)
Auburn University, Alabama (1992)
Dauphin Island Sea Laboratory, Alabama (1992)
Louisiana State University, Baton Rouge (1993)
International Society of Chemical Ecology, Clearwater, Florida (1993)
Antarctican Society, Washington, D.C. (1993)
Caroline P. and Charles W. Ireland Prize Ceremony, UAB (1993)
Keynote Speaker, Operation Deep Freeze, Gulf Port, Mississippi (1993)
Keynote Speaker, Golden Key Honor Society, University of Alabama at Birmingham (1993)
Talladega College, Alabama (1993)
Eighth International Echinoderm Conference, Dijon, France (1993)
National Science Foundation, McMurdo Station, Antarctica (1993)
Florida Institute of Technology (1994)
Keynote Speaker, Sigma Xi Scientific Research Society, UAB (1994)
Bermuda Biological Station for Research, Ferry Reach, Bermuda (1994)
Keynote Speaker, Golden Key Honor Society, University of Alabama at Birmingham (1994)
Keynote Speaker, Alabama Academy of Sciences, Birmingham (1995)
National Science Foundation, McMurdo Station, Antarctica (1996)
Keynote Speaker, Sigma Xi Scientific Research Society, UAB (1997)
National Science Foundation, McMurdo Station, Antarctica (1997)
Keynote Speaker, UAB Honors Symposium (1997)
Theodore Hendon Humanities Forum, University of Alabama at Birmingham (1998)
Georgia Tech, Atlanta (1998)
Scripps Institute of Oceanography (1998)
Board of Trustees, University of Alabama (1998)
Department of Pharmacology, University of Alabama at Birmingham (1998)
Bermuda Biological Station for Research (1998)
Department of Psychology, University of Alabama at Birmingham (1998)
University of Montevallo, Alabama (1998)
University of Alabama at Birmingham, NASA SHARP Program (1999)
Biotechnology Association of Alabama, Birmingham (1999)
Keynote Speaker, Birmingham Civitan Club (1999)
Keynote Speaker, Birmingham Rotary Club (2000)
Keynote Speaker, Magic City Kiwanis Club (2000)
University of Alabama at Birmingham, Minority Program (2000)
McWane Science Center, Birmingham (2000)
Keynote Speaker, Redstone Club, Birmingham (2000)
Birmingham Audubon Society (2000)
Birmingham Optimist Club (2001)
Birmingham New Horizons Club (2001)
Keynote Speaker, Golden Key Honor Society, University of Alabama at Birmingham (2001)
Keynote Speaker, University of Alabama Dental School (2001)
Keynote Speaker, University of Alabama at Birmingham, Advisory Board – School of Engineering (2001)
Keynote Speaker, Alabama Association of Biologists, Columbiana, Alabama (2001)

Keynote Speaker, UAB Campaign Luncheon (2001)
Georgia Institute of Technology (2002)
Keynote Speaker, UAB Honors Symposium, University of Alabama at Birmingham (2002)
Keynote Speaker, Purdue–UAB Botanicals Symposium , Birmingham, Alabama (2002)
University of Alabama at Birmingham, Department of Biology (2002)
Keynote Speaker, Phi Kappa Phi, University of Alabama at Birmingham (2003)
Friday Harbor Laboratories, Washington (2003)
Bamfield Marine Station, British Columbia (2003)
Keynote Speaker, UAB Honors Symposium (2003)
Keynote Speaker, Alabama Chapter of the American Chemical Society (2003)
Keynote Speaker, Provost Forum, Birmingham Southern College (2003)
National Science Foundation, Palmer Station, Antarctica (2004)
Keynote Speaker, Vestavia Rotary club, Birmingham (2004)
Keynote Speaker, Shelby County Schools Science Awards (2005)
Department of Biology, Jacksonville University, Florida (2005)
National Science Foundation, Palmer Research Station, Antarctica (2007)
Keynote Speaker, Southeastern Internal Medicine Group, Birmingham (2007)
Department of Civil and Environmental Engineering, University of Alabama at Birmingham
(2007)
Keynote Speaker, Birmingham Botanical Society, Birmingham (2007)
Department of Biological Sciences, Auburn University (2007)
Keynote Speaker, Tuscaloosa Rotary Club, Tuscaloosa (2008)
Keynote Speaker, Hoover Rotary Club, Birmingham (2008)
Keynote Speaker, Alabama Mathematics, Science and Technology Initiative, Birmingham
(2008)
Keynote Speaker, Discussion Book Dialogues, UAB (2008)
Sigma Xi Seminar Series Speaker, Department of Biology, UAB (2008)
Keynote Speaker, Audubon Society, Florence, Alabama (2009)
Keynote Speaker, Southeast Division of the Association of American Geographers,
Birmingham, Alabama (2010)
Keynote Speaker, Tennessee Aquarium Lecture Series on the World's Oceans, Chattanooga,
TN (2010)
Keynote Speaker, McWane Science Center, Birmingham, Alabama (2010)
Keynote Speaker, Birmingham Rotary, Alabama (2011)
Keynote Speaker, Montevallo University, Alabama (2011)
Keynote Speaker, Samford University, Alabama (2011)
Keynote Speaker, Georgia State University, Atlanta (2011)
Department of Microbiology, UAB (2011)
Keynote Speaker, Birmingham Kiwanis Club, Alabama (2012)
Keynote Speaker, Power Up Forum, Birmingham Botanic Gardens (2012)
Department of Biology, University of Alabama at Birmingham (2012)
Keynote Speaker, Theodore Haddin Arts and Sciences Forum, UAB (2012)
Keynote Speaker, UAB International Arts and Culture Speaking Series (2012)
Keynote Speaker, Darden Award Lecture, University of Alabama (2013)
Department of Biology, University of Alabama at Birmingham (2013)
Keynote Speaker, Alabama River Alliance Annual Meeting (2013)
Keynote Speaker, Birmingham Audubon Society Annual Banquet (2013)

Keynote Speaker, Laboratoire Arago, Banyuls-sur-Mer, France (2014)
Keynote Speaker, Oceanographic Aquarium, Valenica, Spain (2014)
Keynote Speaker, Museum of Natural History, Paris, France (2014)
Keynote Speaker, Station Zoologique, Villesfranche-sur-Mer, France (2014)
Keynote Speaker, Ocean Acidification International Coordination Center, International Atomic Energy Agency, Monaco (2014)
Keynote Speaker, Centro Marino Elba, Elba Island, Italy (2014)
Keynote Speaker, Dauphin Island Sea Laboratory, Alabama (2014)
Keynote Speaker, Tennessee Aquarium (2014)
Keynote Speaker, University of West Georgia (2014)
Keynote Speaker, Wallace State Community College, Alabama (2015)
Keynote Speaker, Middle Tennessee State University (2015)
Keynote Speaker, Birmingham Rotary, Alabama (2015)
Keynote Speaker, College of Architecture, University of Texas at San Antonio (2015)
Keynote Speaker, Tufts University (2015)
Keynote Speaker, Gorongosa Conference, Sun Valley Idaho (2016)
TEDx Speaker, Birmingham, Alabama (2016)
Keynote Speaker, Harbor Branch Oceanographic Institute (2016)
Keynote Speaker, The Nature Conservancy, Alabama (2016)
Keynote Speaker, Distinguished Cochran Lecture, Alabama Medical Association (2017)
Invited Speaker, Ding Darling Lecture Series, Wildlife Center, Sanibel Island, Florida (2017)
Invited Speaker, Palmer Station Lecture Series, U.S. Palmer Station, Antarctica (2017)
Distinguished Cochran Lecturer, Alabama Medical Association, Alabama (2017)
Keynote Lecture, Fashion Institute of Technology, New York City (2017)
EO Wilson Distinguished Lecturer, Harvard Club, Birmingham, Alabama (2017)
Keynote Speaker, Alabama Soil and Water Conservation Society, Alabama (2017)
Invited Speaker, McWane Science Center, Birmingham, Alabama (2017)
Invited Lecture, The Explorers Club, New York City (2017)
Invited Lecture, Society of Asian Academic Surgeons, Birmingham Alabama (2017)
Keynote Speaker, National Association of Nature Camp Administrators, Alabama (2017)
Keynote Speaker, University of Louisiana, Lafayette (2017)
Keynote Speaker, Miami University of Ohio (2017)
Keynote Speaker, Ding Darling Lecture, Sanibel Island, Florida (2018)
Keynote Speaker, Mill Reef Lecture Series (Conversations), Antigua (2018)
Keynote Speaker, The Morning Forum, Los Altos, California (2018)
Keynote Speaker, Los Altos Library Lecture Series, California (2018)
Keynote Speaker, Wesleyan University, Georgia (2018)
Keynote Speaker, Upper South Carolina Diocese Annual Convention 2018)
Keynote Speaker, Alabama Diocese Annual Convention (2019)
Keynote Speaker, Columbia University, NYC (2019)
Keynote Stuart Wilson, MD Lectureship, Annual American Association of Endocrine Surgeons, Los Angeles, California (2019)
Host and co-keynote speaker, The Nature Conservancy Annual Congress, Washington DC (2019)
Keynote Speaker, North American Paleontological Conference. UC Riverside (2019)
Keynote Public Speaker, Oregon Institute of Marine Biology, Charleston, Oregon (2019)

Keynote Speaker, The Maurice Galante Lecture, Department of Surgery, UC San Francisco (2019)
Invited Speaker, Saint Matthews Episcopal Church, San Francisco (2019)
Invited Speaker, Peninsula Regent, San Mateo, California (2019)
Keynote Speaker, School of Public Health, University of Alabama at Birmingham (2019)
Keynote Speaker, Little River Canyon Center, Little River National Park, Alabama (2019)
Keynote Speaker, Green Coast Council, Spring Hill College, Alabama (2019)
Keynote Speaker, Environmental Sciences Consortia, Birmingham, Alabama (2019)
Keynote Speaker, Birmingham Rotary, Alabama (2019)
Keynote Speaker, International Affairs Forum, Northwestern Michigan College (2020)

Professional Activities:

Visiting Scientist: R/V Johnson Cruise J-121, Collection of marine invertebrates aboard the Johnson Sealink I Submersible (April 1981).
Visiting Scientist: TAAF (Territories Australes et Antarctiques Francais) cruise to the subantarctic island of Kerguelen; Resident Scientist at Port-aux-Francais Marine Laboratory (Dec. 1982–March 1983).
Visiting Scientist: McMurdo Station, Antarctica. Resident Visiting Scientist at McMurdo Biological Station (Oct. 1984–Jan. 1985).
Visiting Scientist: McMurdo Station, Antarctica. Resident Scientist at McMurdo Biological Station (Oct. 1985–Dec. 1985).
Visiting Scientist: R/V Seward Link Bahamas Cruise, Collection of deep sea echinoderms using the Johnson Sea Link I Submersible (October 1988).
Judge for Best Student Paper Awards: American Society of Zoologists 1984, 1986; Western Society of Naturalists 1985.
Chairman, International Symposium on Antarctic Marine Biology, American Society of Zoology Meetings, San Francisco, California, December 1988.
Co-Chairman, Symposium on Polar Benthic Ecology, Benthic Ecology Meetings, Williamsburg, Virginia, March 1991.
Invited participant in National Workshop on Blue Crab Larval Recruitment Virginia Institute of Marine Sciences, February, 1989; Dauphin Island Sea Laboratory, March, 1990.
Visiting Scientist: McMurdo Station, Antarctica. Resident Scientist at McMurdo Biological Station (Sept. 1989–Dec. 1989).
Assistant Chairman, Division of Biological Sciences, Alabama Academy of Sciences (1989–1991).
Chairman, Division of Biological Sciences, Alabama Academy of Sciences (1991–1993).
Editor, Symposium Volume on Antarctic Marine Biology, Published in the *American Zoologist*. Ten contributed papers, 1991.
Reviewer for National Science Foundation. Divisions of Biological Oceanography, Polar Biology and Medicine, Human Resources and Education.
Reviewer for National Oceanographic and Atmospheric Administration.
Nominating Committee Member, Division of Invertebrate Zoology, American Society of Zoologists (1991–1993).
NSF Panelist, Ocean Sciences Division, January 1992 (invited again January 1993)

- Invited Participant, GLOBEC Southern Oceans Initiative, Scripps Institute of Oceanography, 1991.
- Co-Chairman, Symposium on the fauna and flora of Cahaba River, Alabama Academy of Science, March 1992.
- Co-Chairman, Symposium on the Zebra Mussel, Alabama Academy of Science, March 1993.
- Invited Participant, NSF Sponsored Symposium on Antarctic Biology, Punta Arenas, Chile, April 1992.
- Visiting Scientist, McMurdo Station, Antarctica. Resident Scientist at McMurdo Biological Station (November 1992–December 1992).
- Reviewer for California Sea Grant
- Member of UAB Strategic Planning Committee composed of UAB senior leaders (1993–present)
- Visiting Scientist, McMurdo Station, Antarctica. Resident Scientist at McMurdo Biological Station (October – November 1993).
- Visiting Scientist, Bermuda Biological Station for Research. Resident Scientist at BBSR (April–May, 1995).
- Visiting Scientist, McMurdo Station, Antarctica. Resident Scientist at McMurdo Biological Station (October – November 1996).
- NSF National Advisory Committee, Appointed by the director of NSF to serve on a national advisory committee overseeing the NSF Office of Polar Programs (1996–2000).
- Invited Participant, NSF sponsored cruise employing Johnson Sealink Submersible (February 1997).
- Visiting Scientist, McMurdo Station, Antarctica. Resident Scientist at McMurdo Biological Station (October – November, 1997).
- Scientific Advisory Committee, Alabama Center for Estuarine Studies (January 1998–present).
- NSF Panelist, Polar Biology and Medicine (September 1999).
- Invited Participant, SICB symposium on asteroid systematics (January 2000).
- Chairman, International Symposium on Antarctic Marine Biology, Society for Integrative and Comparative Biology, Atlanta, Georgia (January 2000).
- Visiting Scientist, Palmer Station, Antarctica. Resident Scientist at Palmer Station (February – April 2000).
- Visiting Scientist, Palmer Station, Antarctica. Resident Scientist at Palmer Station (November–December 2001).
- Visiting Scientist, Friday Harbor Marine Laboratory (June–July 2003)
- Visiting Scientist, Palmer Station, Antarctica. Resident Scientist at Palmer Station (March–May 2004).
- Leader of UAB Antarctica Cruise (30 participants), Senior Marine Biology Lecturer aboard the Explorer II to Falkland Islands and Antarctic Peninsula (January 2006).
- Visiting Scientist, Palmer Station, Antarctica. Resident Scientist at Palmer Station (February – March 2007).
- Visiting Scientist, Palmer Station Antarctica. Resident Scientist at Palmer Station (February – April 2009)
- National Academy of Sciences, Committee for Polar Research Board Frontiers in Polar Science Workshop on Polar Climate Change (2010)

Visiting Scientist, Palmer Station Antarctica. Resident Scientist at Palmer Station (February-April 2012)

Visiting Scientist, Palmer Station Antarctica. Resident Scientist at Palmer Station (February-March 2017)

Visiting Scientist, Palmer Station Antarctica. Resident Scientist at Palmer Station (February-March 2018)

Advisory Board E.O. Wilson Biodiversity Foundation (2012 – present)

Editorial Board: American Zoologist (1992–1998)
Journal of the Alabama Academy of Science (1990–1994)
Environmental Geology (2008-2014)

Editorial Advisory Board: Global Change Biology (2017 – present)

Associate Editor: Gulf of Mexico Science (1995–present)

Review Editor: Marine Ecology Progress Series (2005–present)

Reviewer of Manuscripts:

American Naturalist (1986–present)
Antarctic Science (1990–present)
Aquaculture (2006–present)
Biological Bulletin (1993–present)
Cahiers de Biologie Marine (1997–present)
Canadian Journal of Zoology (1998–present)
Ciencias Marinas (2006–present)
Ecological Monographs (1994–present)
Gulf of Mexico Science (1995–present)
Hydrobiologia (2001–present)
Invertebrate Biology (1995–present)
Journal of Chemical Ecology (1994–present)
Journal of Crustacean Biology (1992–present)
Journal of Experimental Marine Biology and Ecology (1986–present)
Journal of the Alabama Academy of Sciences (1990–present)
Journal of the Marine Biological Association of the United Kingdom (1995–present)
Marine Biology (1985–present)
Marine Ecology Progress Series (1991–present)
Polar Biology (1995–present)
P.S.Z.N.I. Marine Ecology (1985–present)
Trends in Ecology and Evolution (1993–present)
Global Change Biology (2009–present)
Scientific Reports (2016 – present)
Aquatic Toxicology

Research Interests:

Reproductive and nutritional biology of marine and aquatic invertebrates, especially echinoderms, crustaceans and molluscs; physiological and chemical ecology; hard and soft-bottom ecology, ocean acidification, climate change, conservation biology.

James McClintock – Career Grants to Date:

Sigma–Xi Grant in Aid of Research (1982) \$500.

National Science Foundation Travel and Research Support. Named Research Assistant on Polar Program NSF grant to John M. Lawrence entitled “A comparison of the reproductive characteristics of brooding and non–brooding echinoderms from the Archipelago of Kerguelen” (1983) \$21,049.

Territories Australes et Antarctiques (TAAF) ship support (26 cruise days), Port–aux–Francais Marine Laboratory support (1983).

National Science Foundation Travel and Research support. Named Postdoctoral Research Fellow on Polar Program NSF grant entitled: “Reproductive biology and larval ecology of Antarctic shallow–water benthic invertebrates” (1984–1987) \$262,793 (PI: Dr. John Pearse).

Monterey Bay Aquarium Research Grant. Principal Investigator on research program entitled “A study of the decomposition of the common kelp *Macrocystis pyrifera* in Monterey Bay” (1986–1987) \$25,762 (Co–PI: Dr. Mike Foster).

UAB Faculty Research Grant. Principal Investigator on research program entitled “The effects of photoperiod and temperature on gametogenesis and gonadal and somatic growth in the subtropical sea star *Luidia clathrata*” (1987–1988) \$2,000.

National Science Foundation Grant. Principal Investigator on grant entitled “Symposium: Antarctic Marine Biology” (1988–1989) \$17,674 (Co–PI: Dr. John Pearse).

Alabama Marine Environmental Science Consortium ship support. Co–Principal Investigator on grant entitled “Studies on the comparative biology of selected target species and selected sediment/substrate types of the Alabama shelf zone” (1988–1989) \$22,800 ship support (Co–PIs T.S. Hopkins, W.W. Schroeder, J.F. Valentine, K.R. Marion, S.A. Watts).

National Oceanic and Atmospheric Administration Grant. Principal Investigator on grant entitled “The habitat utilization, population dynamics, reproductive biology, and trophic ecology of the blue crab *Callinectes sapidus* in Weeks Bay, Alabama: important implications for fisheries and estuarine management” (1989–1990), NOAA \$14,547; Match \$15,887; Total \$30,434 (Co–PI: Dr. Ken Marion).

National Science Foundation Grant. Principal Investigator on grant entitled “The chemical ecology of shallow–water antarctic sponges: an investigation of toxicity and feeding deterrence” (1989–1991) \$100,087.

Mississippi–Alabama Sea Grant. Travel award to fund trip to Virginia Institute of Marine Sciences as invited participant in National Workshop on Blue Crab Larval Recruitment (1989) \$250.

National Science Foundation EPSCoR Marine Ecology Grant. Principal Investigator on grant entitled “A preliminary study of modes and energetics of reproduction and timing of gametogenesis and recruitment in offshore echinoderms of the Gulf of Mexico” (1989–1990) \$14,993 (Co–PI's: T.S. Hopkins, K.R. Marion, S.A. Watts).

National Science Foundation Grant. Life Sciences Coordinator on grant entitled “A Young Scholars Program in the Laboratory Sciences at UAB” (1989–1990) \$98,739. (PI's: Dr. Gary Gray, Dr. William Nonidez).

Alabama Universities/Tennessee Valley Authority/Research Consortium Grant. Co–Principal Investigator on grant entitled “Assessment of water quality, biological conditions, and pollutant sources in Upper Bear Creek Reservoir, Alabama: development of a plan for improving water quality and establishing a recreational fishery” (1989–1990) \$31,000 (Co–PI's: Dr. Ken Marion, Dr. Robert Angus).

National Science Foundation Equipment Grant. Associate Investigator on grant entitled “Equipment acquisitions in support of research at the Alabama Marine Environmental Sciences Consortium” (1989) \$31,750 (PI's: Dr. Heck, Dr. Pennock, Dr. Zimmer–Faust).

National Science Foundation EPSCoR Marine Ecology Grant. Principal Investigator on grant entitled “Modes and energetics of reproduction and timing of gametogenesis and recruitment in offshore echinoderms of the Gulf of Mexico” (1989–1991), National Science Foundation \$79,912; Matching \$132,916; Total \$212,828 (Co–PI's: Dr. Tom Hopkins, Dr. Ken Marion, Dr. Stephen Watts).

Mississippi–Alabama Sea Grant. Principal Investigator on grant entitled “A comparative study of the life history and physiological and organismal ecology of *Callinectes similis* and *C. sapidus* in estuarine environments of the northeast Gulf of Mexico: important implications for the blue crab fishery.” (1990–1992) \$3,600 (Co–PI's: Mr. Pan–wen Hsueh and Dr. Ken Marion).

Whitehall Foundation. Principal Investigator on grant entitled “A preliminary investigation of the presence and role of melatonin in photoperiodic echinoderms” (1990–1991) \$9,900 (Co–PI: Dr. Ron Gettinger).

National Science Foundation REU Grant. Principal Investigator on grant entitled “An REU Award to support research on reproduction in echinoderms” (1990–1991) \$4,000.

Alabama Universities/Tennessee Valley Authority/Research Consortium Grant. Co–Principal Investigator on grant entitled “Continuation and extension of studies assessing the water

quality, biological status, and pollutant sources in Upper Bear Creek Reservoir” (1990–1991) \$19,041 (Co-PI's: Dr. Ken Marion, Dr. Robert Angus).

Schroedinger Grant. Faculty sponsor and co-author of Postdoctoral grant entitled “Reproduction and other demographic characteristics of benthic echinoderms in shallow offshore waters of the Gulf of Mexico” (1990–1992) \$51,000 (Postdoctoral Fellow: Dr. Gottfried Schinner, University of Vienna, Austria).

National Science Foundation Grant. Associate Investigator on grant entitled “Renovation and Modernization of Marine Science Hall, Dauphin Island Sea Lab, Alabama Marine Environmental Sciences Consortium” (1991–1992) \$585,000 (PIs: Dr. Crozier, Dr. Hopkins, Mr. Jorgensen).

National Science Foundation Grant. Principal Investigator on grant entitled “The chemical ecology of shallow-water Antarctic marine invertebrates” (1992–1994) \$291,990 (Co-PI: Dr. Bill Baker, Florida Institute of Technology).

National Science Foundation EPSCoR Marine Ecology Grant. Principal Investigator on grant entitled “Chemical defense and nearshore production” (1992–1995), National Science Foundation \$262,208; Matching \$288,458; Total \$550,666 (Co-PI's: Dr. Stephen Watts, Dr. Ken Marion, Dr. Tom Hopkins).

National Science Foundation Travel Award. Invited participant. International meeting on Antarctic Science. Punta Arenas, Chile, April 10–18, 1992. \$3,500.

National Science Foundation EPSCoR Travel Grant. Washington, D.C. 1993. \$900.

University of Alabama at Birmingham Faculty Research Grant. Principal Investigator on grant entitled “The chemical ecology of oceanic and reef-dwelling marine invertebrates of Bermuda” (1994–1995). \$1,862.

Bermuda Biological Station for Research Grant in Aid. Principal Investigator on grant entitled “Chemically mediated feeding deterrent properties of benthic and planktonic marine invertebrates of Bermuda” (1995). \$2,400.

National Science Foundation Grant. Principal Investigator on grant entitled “The chemical ecology of shallow-water antarctic marine invertebrates” (1996–1999). \$309,034. Co-PI: Dr. Bill Baker, Florida Institute of Technology.

National Science Foundation Grant. Co-Principal Investigator on grant entitled: “A supplementary award to support a science teacher to participate in investigations of chemical ecology in Antarctica” (1996–1998). \$8,804. Co-PI: Dr. Bill Baker, Florida Institute of Technology.

Mississippi-Alabama Seagrant Grant. Co-Principal Investigator on grant entitled “Investigations into the culture of sea urchins in the Gulf of Mexico” (1997–1998). \$15,771. (Principal Investigator: Dr. Steve Watts).

- Mississippi–Alabama Seagrant Grant. Co–Principal Investigator on grant entitled “Isolation and purification of bioactive compounds from echinoderms utilizing a novel biofouling assay” (1997–1998). \$78,701. Principal Investigator: Dr. Charles Amsler.
- National Science Foundation Grant. Principal Investigator on grant entitled “The chemical ecology of oceanic holoplankton: implications in energy flux and mixed species assemblages” (1997–1998). \$14,789. Co–PIs: Dr. Bill Baker, Florida Institute of Technology, and Dr. Debbie Steinberg, Bermuda Biological Station for Research.
- Mississippi–Alabama Seagrant Grant. Co–Principal Investigator on grant entitled “Isolation and purification of bioactive compounds from echinoderms utilizing a novel biofouling assay” (1998–2001). \$182,195. Principal Investigator: Dr. Charles Amsler.
- Mississippi–Alabama Seagrant Grant. Co–Principal Investigator on grant entitled “Assessment of sea urchins as fishery and aquaculture candidates in the Gulf of Mexico” (1998–2001). \$317,762. Principal Investigator: Dr. Stephen Watts.
- National Science Foundation Grant. Principal Investigator on grant entitled “Antarctic Marine Biology: Symposium” (1999–2000). \$14,988. Co–Principal Investigators: Dr. Charles Amsler and Dr. Bill Baker.
- National Science Foundation Grant. Co–Principal Investigator on grant entitled “Minority Graduate Education” (1999–2002). \$2,491,428. Principal Investigator: Dr. Louis Dale.
- National Science Foundation Grant. Principal Investigator on grant entitled “The chemical ecology of shallow–water marine macroalgae and invertebrates on the Antarctica Peninsula” (1999–2002). \$497,134 (UAB: \$261,000, FIT: \$236,134). Co–Principal Investigators: Dr. Charles Amsler and Dr. Bill Baker.
- National Science Foundation Grant. Co–Principal Investigator on grant entitled “Teacher Experiencing Antarctica Supplement to OPP98–14538 (1999–2000). \$18,946. Principal Investigator: Dr. Chuck Amsler.
- National Science Foundation Grant. Named faculty participant on grant entitled “GK–12 NSF Graduate Teaching Fellows in K–12 Education” (1999–2002). \$1,417,324. Principal Investigator: Dr. Larry Krannich; Co–Principal Investigators: Dr. Stephen Hajduk and Dr. David Radford.
- National Institute of Health. Principal Investigator on grant entitled “K–12 higher education partnership program (Birmingham Public School System – Subcontract)” (2000–2001). \$58,638. Co–Principal Investigator: Dr. Charles Watkins.
- National Science Foundation Travel Grant. VII SCAR Symposium on Antarctic Marine Biology, Amsterdam, Netherlands, August 2001. \$1,000.
- Alabama Center for Estuarine Studies Grant. Co–Principal Investigator with A.A. Boettcher,

T.D. Sherman, C.D. Amsler and J.F. Valentine. Role of invasive species in shaping plant–animal interactions in the Delta. \$27,692. May 2000–April 2001. Funded but UAB portion cut due to reduction in scope.

National Science Foundation Grant. Co–Principal Investigator on grant entitled “Collaborative Research: The chemical ecology of shallow-water marine macroalgae and invertebrates on the Antarctic Peninsula” (June 2002–May 2005). \$820,386 (UAB: \$386,054; USF: \$434,332). Co–Principal Investigators: Dr. Charles Amsler and Dr. Bill Baker.

US Fish and Wildlife Service. Co–Principal Investigator on grant entitled “Treatment of ballast water using acoustic cavitation techniques coupled with advanced oxidants: treatability study using different sonication frequencies and dosages of advanced oxidants (January 2003–December 2003). \$191,107 (\$165,000 plus \$26,107 industry and university match). Co–Principal Investigators: Dr. C. Amsler, Dr. R. Peters, Dr. S. Chen and Dr. S. Clark.

National Science Foundation. Co–Principal Investigator on grant entitled “UAB ADVANCE Institutional Transformation Project” (5/1/03–4/30/08) \$3,500,000. Principal Investigator – Dr. Joan Lorden, Co–Principal Investigators: Dr. Jeannette Doeller, Dr. Linda Lucas.

U.S. Fish and Wildlife Service. Co–Principal Investigator on grant entitled “Continuation Grant – Treatment of ballast water using acoustic cavitation techniques coupled with advanced oxidants: treatability study using different sonification frequencies and dosages of advanced oxidants (January–December 2004). \$94,846 (\$60,000 plus \$34,846 industry and university match). Co–Principal Investigators: Dr. C. Amsler, Dr. R. Peters.

U.S. Department of Education. Principal Investigator on grant entitled “Graduate Assistance in the Areas of National Need” (August 2003–August 2006) \$737,910.

National Science Foundation. Principal Investigator on grant entitled “Graduate Resource Fellowship Program” (2003–2005). \$228,000.

National Oceanic and Atmospheric Association, West Coast National Undersea Research Program, Principal Investigator on grant entitled “Antarctic Marine Ecology Symposium – Santa Cruz Meeting for Ecology and Reproduction in Marine Invertebrates – a tribute to John S. Pearse”. (2006). \$5,800.

National Science Foundation. Co–Principal Investigator on grant entitled “Collaborative Research: The Chemical Ecology of Shallow-water Marine Macroalgae and Invertebrates on the Antarctic Peninsula” (July 2005 – June 2008) \$810,000 (UAB portion = \$405,000).

National Science Foundation. Co–Principal Investigator on grant entitled “Collaborative Research: The Chemical Ecology of Shallow-water Marine Macroalgae and Invertebrates on the Antarctic Peninsula” (September 2009 – August 2013) \$1,375,221 (UAB portion = \$703,314).

National Science Foundation. Co-Principal Investigator on grant entitled “Collaborative Research: Climate Change and Predatory Invasion of the Antarctic Marine Environment” (September 2009–October 2012) \$602,391 (UAB portion = \$148,860).

National Science Foundation. Co- Principal Investigator on grant entitled “The effects of ocean acidification and rising sea surface temperatures on shallow-water calcified benthic organisms in Antarctica.” (June 2011 - May 2013) \$625,499.

National Science Foundation. Co-Principal Investigator on grant entitled “Collaborative Research: Climate Change and Predatory Invasion of the Antarctic Marine Environment” (September 2012–October 2015) \$760,603 (UAB portion = \$199,201).

National Science Foundation. Co-Principal Investigator on grant entitled “Collaborative Research: The Chemical Ecology of Shallow-water Marine Macroalgae and Invertebrates on the Antarctic Peninsula” (August 1 2014 – July 31, 2018) \$1,788,314 (UAB portion = \$899,685).

National Science Foundation. Named Participant on grant entitled “MRI: Acquisition of a Multipurpose X-ray Diffractometer for Interdisciplinary Materials Research and Education” (September 15, 2017 – August 31, 2019) \$266,000.

National Science Foundation. Co-Principal Investigator on grant entitled “Collaborative Research: Sea Ice as a Driver of Antarctic Benthic Macroalgal Community Composition and Nearshore Trophic Connectivity (August 1, 2018 – July 31, 2021) \$875,000 (UAB portion = \$385,137). (Charles Amsler – lead PI).

Susan Mott Webb Charitable Trust. Principal Investigator on grant entitled “Penguins in a Warming World – Middle School Science Teachers Workshops – McWane Science Center” (June 1, 2017 – August 31, 2019) \$15,000.

National Science Foundation. Co-Principal Investigator on grant entitled “Assemblage-wide effects of ocean acidification and ocean warming on ecologically important macroalgal-associated crustaceans in Antarctica. August 1, 2019 – July 31, 2022. \$698,835.

Publications (peer-reviewed manuscripts):

- 290) Ingels et al. (including **J.B. McClintock**) In Press. Antarctic Ecosystem Responses following Ice Shelf Collapse and Iceberg Calving: Science Review and Future Research. WIREs Climate Change.
- 289) Thatje, S., K.E. Smith, **J.B. McClintock**, and R.B. Aronson. In press. From deep to shallow seas: Antarctic king crab on the move. Ecology.
- 288) Heiser, S., C.D. Amsler, A. Shilling, **J.B. McClintock**, and B.J. Baker. In press. Every rule has an exception: a cheater in the community-wide mutualism in Antarctic marine seaweed forests. Integrative and Comparative Biology.

- 287) **McClintock, J.B.**, C.D. Amsler, B.J. Baker, A. Moran, A. Woods. In press. Introduction to the symposium: New frontiers in Antarctic marine biology. Integrative and Comparative Biology.
- 286) Bory, A., A.J. Shilling, J. Allen, A. Azhart, A. Roth, L.N. Shaw, D.E. Kyle, J.H. Adams, C.D. Amsler, **J.B. McClintock**, and B.J. Baker. 2020. Bioactivity of spongian diterpenoid scaffolds from the Antarctic sponge *Dendrilla membranosa*. *Marine Drugs* 28, 327, doi:10.3390/md18060327
- 285) Schram, J.B., C.D. Amsler, and **J.B. McClintock**. 2019. Contrasting chemotactic responses of the common Antarctic gastropod *Margarella antarctica* to four species of sea stars (western Antarctic Peninsula). *Polar Science* 22, doi.org/10.1016/j.polar.2019.100486
- 284) Watts, S.A., **J.B. McClintock**, and J.N. Lawrence. 2020. *Lytechinus*. In: *Sea Urchins: Biology and Ecology*. Elsevier, pp. 661-680
- 283) **McClintock, J.B.**, C.D. Amsler, M.O. Amsler, and W. R. Fraser 2020. Intertidal foraging by gentoo penguins in a macroalgal raft. *Antarctic Science* 32, 43-44.
- 282) Schram, J.B., M.O. Amsler, A.W.E. Galloway, C.D. Amsler, and **J.B. McClintock**. 2019. Fatty acid trophic transfer of Antarctic algae to a sympatric amphipod consumer. *Antarctic Science* 31, 315-316 doi:10.1017/S0954102019000397
- 281) Challener, R., **J.B. McClintock**, R. Czaja Jr. and C. Pomory. 2019. Rapid assessment of post-Hurricane Michael impacts on a population of the sea urchin *Lytechinus variegatus* in seagrass beds of Eagle Harbor, Port Saint Joseph Bay, Florida. *Gulf and Caribbean Research* 30, SC11-SC16. <https://doi.org/10.18785/gcr.3001.07>
- 280) Hellberg, M.E., R.B. Aronson, K.E. Smith, M.I. Duhon, S.T. Ayong, G.A. Lovrich, S. Thatje and **J.B. McClintock**. 2019. Population expansion of an Antarctic king crab? *Frontiers of Biogeography* 11.3:e43165.
- 279) **McClintock, J.B.** 2019. Disappearance of the rock-boring urchin *Echinometra lucunter* (Echinoidea: Echinodermata) along an extensive rock wall of Grotto Beach, San Salvador, Bahamas. *Caribbean Journal of Science* 49, 278-280.
- 278) Shilling, A., J. von Salm, A.R. Sanchez, Y. Kee, C.D. Amsler, **J.B. McClintock**, B.J. Baker. 2019. Anverenes B-E, New polyhalogenated monoterpenes from the Antarctic red alga *Plocamium cartilagineum*. *Marine Drugs* 17, 230. doi.org/103390/md17040230
- 277) Amsler, C.D., M.O. Amsler, M.D. Curtis, **J.B. McClintock** and B.J. Baker. 2019. Impacts of gastropods on epiphytic microalgae on the brown macroalga *Himantothallus gradifolius*. *Antarctic Science* 31, 89-97.
- 276) Steffel, B.V., K.E. Smith, G.H. Dickinson, J.A. Flannery, K.A. Baran, M.N. Rosen, **J.B. McClintock** and R.B. Aronson. 2019. Characterization of the exoskeleton of the Antarctic king crab *Paralomis birsteini*. *Invertebrate Biology* 138, doi.org/10.1111/ivb.12246

- 275) von Salm, J.L., K.M. Schoenrock, **J.B. McClintock**, C.D. Amsler and B.J. Baker. 2019. The status of marine chemical ecology in Antarctica: Form and function of unique high-latitude chemistry. In: Marine Chemical Ecology (M. Puglisi and M. Beccero, Eds.), CRC Press. pp. 27-60.
- 274) Duquette, A., **J.B. McClintock**, Y.K. Vohra and R.A. Angus. 2018. Near-future temperature reduces Mg/Ca ratios in the major skeletal components of the common subtropical sea urchin *Lytechinus variegatus*. Journal of Experimental Marine Biology and Ecology 509, 1-7.
- 273) Brothers, C.J. W.J. Van Der Pol, C.D. Morrow, J.A. Hakim, H. Koo, and **J.B. McClintock**. 2018. Ocean warming alters predicted microbiome functionality in a common sea urchin. Proceedings of the Royal Society B, 285(1881), 20180340
- 272) Duquette, A., K.M. Halanych, R.A. Angus, and **J.B. McClintock**. 2018. Inter and intraspecific comparisons of the skeletal Mg/Ca ratios of high latitude Antarctic echinoderms. Antarctic Science 30, 160-169.
- 271) Duquette, A., **J.B. McClintock**, C.D. Amsler, A. Pérez-Huerta, M. Milazzo and J.M. Hall-Spencer. 2017. Effects of ocean acidification on the shells of four Mediterranean gastropod species near a CO₂ seep. Marine Pollution Bulletin 124, 917-928.
- 270) Brothers, C.J. and **J.B. McClintock**. 2018. Sea urchins exposed to near-future elevated seawater temperature alter resource allocation under low-quality food conditions. Marine Biology 165, 43. <https://doi.org/10.1007/s00227-018-3301-7>
- 269) Smith, K.E., R.B. Aronson, B.V. Steele, M.O. Amsler, S. Thatje, J. Anderson, C.J. Brothers, A. Brown, D.S. Ellis, J.N. Havenhand, W.R. James, P.O. Moskenes, A.W. Randolph, T. Sayre-McCord and **J.B. McClintock**. 2017. Climate change and the threat of novel marine predators in Antarctica. Ecosphere 8 (11). <https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1002/ecs2.2017>
- 268) Schram, J.B., K.M. Schoenrock, **J.B. McClintock**, C.D. Amsler and R.A. Angus. 2017. Ocean warming and acidification alter Antarctic macroalgal biochemical composition but not amphipod grazer feeding preferences. Marine Ecology Progress Series 581, 45-56.
- 267) Smith, K.E., R.B. Aronson, S. Thatje, G.A. Lovrich, M.O. Amsler, B.V. Steffel and **J.B. McClintock**. 2017. Biology of the king crab *Paralomis birsteini* on the continental slope off the western Antarctic Peninsula. Polar Biology <https://doi.org/10.1007/s00300-017-2145-9>
- 266) **McClintock, J.B.**, W.C. Lancaster, C.M. Pomory and J.M. Lawrence. 2018. Mass mortality of the sea cucumber *Holothuria princeps* along the Florida Panhandle, December, 2016. Gulf of Mexico Science 34, 73-75.

- 265) Demko, A.M., C.D. Amsler, M.E. Hay, J.D. Long, **J.B. McClintock**, V.J. Paul and E. Sotka. 2017. Declines in plant palatability from polar to tropical latitudes depend on herbivore and plant identity. *Ecology* 98, 2312-2321.
- 264) Aumack, C.F., A.T. Lowe, C.D. Amsler, M.O. Amsler, **J.B. McClintock** and B.J. Baker. 2017. Gut content, fatty acid, and stable isotope analyses reveal dietary sources of macroalgal-associated amphipods along the western Antarctic Peninsula. *Polar Biology* 40, 1371-1384.
- 263) Challener, R. and **McClintock, J.** 2017. *In situ* measurements of righting behavior of the sea urchin *Lytechinus variegatus* in the field: the importance of size, substrate type and covering material. *Aquatic Biology* 26:33-40.
- 262) **McClintock, J.B.**, M. Amsler, R. Angus, F. McClintock, A-M. Genevière and M. Lebrato. 2017. A comparison of MgCO₃ in individual sub-components of major skeletal subcomponents of the common temperate sea urchin *Paracentrotus lividus*. *Cahiers Marine Biologie* 58, 99-106.
- 261) von Salm, K.M. Schoenrock, **J.B. McClintock**, C.D. Amsler and B.J. Baker. 2017. The status of marine chemical ecology in Antarctica: form and function of unique high-latitude chemistry. In: *Chemical Ecology: The Ecological Impacts of Marine Natural Products*. M.P. Puglisi-Weening, M. Becerro, and V.J. Paul (eds.), CRC Press.
- 260) Lebrato, M., A.J. Andersson, J.B. Ries, R.B. Aronson, M.D. Lamare, W. Koeve, A. Oshlies, M.D. Iglesias-Rodriguez, S. Thatje, M. Amsler, S.C. Vos, D., O.B. Jones, H.A. Ruhl, A.R. Gates, and **J.B. McClintock**. 2016. Benthic calcifiers coexist with seawater-carbonate undersaturation at a global scale. *Global Biogeochemical Cycles* 30, 1038-
- 259) von Salm, J.L., C.G. Witowski, R.M. Fleeman, **J.B. McClintock**, C.D. Amsler, L.N. Shaw and B.J. Baker. 2016. Darwinolide, a new diterpene scaffold that inhibits methicillin-resistant *Staphylococcus aureus* biofilm from the Antarctic sponge *Dendrilla membranosa*. *Organic Letters* 18, 2596-2599.
- 258) Schram, J.B., M.O. Amsler, C.D. Amsler, K.M. Schoenrock, **J.B. McClintock** and R.A. Angus. 2016. Antarctic crustacean grazer assemblages exhibit resistance following exposure to decreased pH. *Marine Biology* 163, 106-118.
- 257) Schram, J.B., K.M. Schoenrock, **J.B. McClintock**, C.D. Amsler & R.A. Angus. 2016. Testing Antarctic resilience: the effects of elevated seawater temperature and decreased pH on two gastropod species. *ICES Journal of Marine Science* doi:10.1093/icesjms/fsv233
- 256) Schram, J.B., K.M. Schoenrock, **J.B. McClintock**, C.D. Amsler & R.A. Angus. 2016. Seawater acidification more than warming presents a challenge for two Antarctic macroalgal-associated amphipods. *Marine Ecology Progress Series* 554, 81-97.

- 255) Schoenrock, K.M., J.B. Schram, C.D. Amsler, **J.B. McClintock**, R.A. Angus & Y.K. Vohra. 2016. Climate change confers a potential advantage to fleshy Antarctic crustose macroalgae over calcified species. *Journal of Experimental Marine Biology and Ecology* 474, 58-66.
- 254) Brothers, C.J., M. Byrne, Harianto, J. and **J.B. McClintock** 2016. Sea urchins in a high-CO₂ world: the influence of acclimation on the immune response to ocean warming and ocean acidification. *Proceedings of the Royal Society B: Biological Sciences* 283.
- 253) Brothers C.J., K.E. Smith, M.O. Amsler, R.B. Aronson, H. Singh, **J.B. McClintock**. 2016. Covering behavior of deep-water echinoids off the western Antarctic Peninsula: an antipredatory response to king crabs? *Marine Ecology Progress Series* 553, 155-162.
- 252) **McClintock, J.B.**, R.A. Angus and K.M. Marion. 2015. *Plestiodon fasciatus* (five-lined skink). Predation by fish. *Herpetological Review* 46, 434-435.
- 251) Schram, J.B., M.O. Amsler, C.D. Amsler, K.M. Schoenrock, **J.B. McClintock** and R. A. Angus. 2016. Antarctic crustacean grazer assemblages exhibit resistance following exposure to decreased pH. *Marine Biology* 163, 106 -118.
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- 249) Aronson, R.B., K.E. Smith, S.C. Vos, **J.B. McClintock**, M.O. Amsler, P.O. Moksnes, D.S.Ellis, J. Kaeli, H. Singh, J.W. Bailey, J. Schferl, R. van Woesik, M.A. Martin, B.V. Steffe, M.E. Deal, S.M. Lazarus, J.N. Havenhand, R. Swalethorp, S. Kjellerup and S. Thatje. 2015. No barrier to emergence of bathyal king crabs on the Antarctic shelf. *Proceedings of the National Academy of Sciences* www.pnas.org/cgi/doi/10.1073/pnas.1513962112
- 248) Schoenrock, K.M., J.B. Schram, C.D. Amsler, **J.B. McClintock**, R.A. Angus, and Y.K. Vohra. 2016. Climate change confers a potential advantage to fleshy Antarctic crustose macroalgae over calcified species. *Journal of Experimental Marine Biology and Ecology* 474, 58-66.
- 247) Lebrato, M., A.J. Andersson, J.B. Ries, R.B. Aronson, M.D. Lamare, W. Koeve, A. Oshlies, M.D. Iglesias-Rodriguez, S. Thatje, M. Amsler, S.C. Vos, D., O.B. Jones, H.A. Ruhl, A.R. Gates, and **J.B. McClintock**. 2016. Benthic calcifiers coexist with seawater-carbonate undersaturation at a global scale. *Global Biogeochemical Cycles* 30, 1038-1053.
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- 245) Schram, J.B., K.M. Schoenrock, **J.B. McClintock**, C.D. Amsler and R.A. Angus. 2015. Multi-frequency observations of seawater carbonate chemistry on the central coast of the western Antarctic Peninsula. *Polar Biology* 34, 25582.
- 244) Amsler, M.O., K.E. Smith, **J.B. McClintock**, H. Singh, S. Thatje, C. Vos, A. Brown, D. Ellis, J. Anderson and R.B. Aronson. 2015. *In situ* observations of a possible skate nursery off the western Antarctic Peninsula. *Journal of Fish Biology* 86, 1867-1872.
- 243) Amsler, M.O., Y. Huang, **J.B. McClintock**, C.D. Amsler, and B.J. Baker. 2015. Abundance and diversity of gastropods associated with dominant subtidal macroalgae from the Western Antarctic Peninsula. *Polar Biology* 38, 1171-1181.
- 242) Brothers, C.J. and **J.B. McClintock**. 2015. The effects of climate-induced elevated seawater temperature on the covering behavior, righting response, and Aristotle's lantern reflex of the sea urchin *Lytechinus variegatus*. *Journal of Experimental Marine Biology and Ecology* 467, 33-38.
- 241) Challener, R., **J.B. McClintock**, and L. Robbins. 2016. Variability of the carbonate chemistry in a shallow, seagrass-dominated ecosystem: implications for ocean acidification experiments. *Marine and Freshwater Research* 67, 163-172.
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- 224) Young, R.M., J.L. von Salm, M.O. Amsler, J. Lopez-Bautista, C.D. Amsler, **J.B. McClintock** and B.J. Baker. 2013. Site-specific variability in the chemical diversity of the Antarctic red alga *Plocamium cartilagineum*. *Marine Drugs* 11, 2126-2139.

- 223 Challener, R., **J.B. McClintock** and R. Makowsky. 2013. Effects of reduced carbonate saturation state on early development in the common edible sea urchin *Lytechinus variegatus*: Implications for land-Based Aquaculture. *Journal of Applied Aquaculture* 25, 154-175.
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- 1) **McClintock, J.B.** 1994. Antarctic Fish Biology. Authored by J. Eastman, Academic Press, San Diego, California. *American Zoologist* 34, 172–173.

Book Jacket Endorsements

- 1) Resurrection Science, M. O'Connor, Palgrave/MacMillan 2015
- 2) The Fish Market, Lee Van der Voot, Saint Martins 2016

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NOTE – I continue to co-author or co-present approximately 10-20 research papers per year at national and international scientific conferences. I chose to discontinue the practice of citing each presentation after 2012 due to the exhaustive length of these listings.

- 379) Schram, J.M., **J.B. McClintock**, C.D. Amsler and B.J. Baker. 2012. Impacts of elevated seawater temperature on Antarctic amphipod feeding choices for chemically-deterrent macroalgae. Society of Integrative and Comparative Biology 2012 Annual Meeting, Charleston, SC. January 3-7, 2012.
- 378) **McClintock, J.B.**, M.O. Amsler, R.A. Angus, R.C. Challener, J.B. Schram, C.D. Amsler, C.L. Mah, J. Cuce and B.J. Baker. 2012. The Mg-calcite levels of Antarctic echinoderms: implications for ocean acidification and further support for a latitudinal gradient in levels of Mg-calcite. Society of Integrative and Comparative Biology 2012 Annual Meeting, Charleston, SC. January 3-7, 2012.
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- 364) Schoenrock, K.M., C.D. Amsler, **J.B. McClintock** and B.J. Baker. Experimental marine ecology along the open coastline of the western Antarctic Peninsula. American Academy of Underwater Sciences Annual Meeting, Monterey, CA, September 23-27, 2012.
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- 351) **McClintock, J.B., M.O.** Amsler, R.A. Angus, R. Challener, J.B. Schram, C.D. Amsler, C. Mah, J. Cuce & B.J. Baker. 2011. The Mg-Calcite composition of Antarctic echinoderms: important implications or predicting the impacts of ocean acidification. Benthic Ecology Meeting, Mobile, AL, 16-20 March 2011.
- 350) White, B., **J.B. McClintock**, C.D. Amsler and M.O. Amsler. 2011. Assessment of nearshore distribution and abundance of echinoderms along the western Antarctic Peninsula. Benthic Ecology Meeting, Mobile, AL, 16-20 March 2011
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- 344) Koplovitz G, **J.B. McClintock**, C.D. Amsler and B.J. Baker. 2010. Potential resistance of Antarctic ascidians to bacterial epibiosis. Presented at the Society of Integrative and Comparative Biology meeting, January 3-7. Seattle, Washington.
- 343) Lebar, M. D.; Ankisetty, S.; Amsler, C. D.; **McClintock, J. B.** and Baker, B. J. 2010. 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.
- 342) Calcul, L.; Amsler, C. D.; **McClintock, J. B.** and Baker, B. J. 2010. Further chemical investigation of the Antarctic marine invertebrate *Synoicum adareanum* Annual meeting of the American Society of Pharmacognosy, St. Petersburg, Florida, 10 – 14 Jul, 2010.
- 341) Maschek, J. A.; Mevers, E. E.; Wilson, N.; **McClintock, J. B.**; Amsler, C. D. and Baker, B. J. 2010. A chemical investigation of the Antarctic nudibranch *Austrodoris kerguelenensis*: palmadorins D-U and insight into its secondary metabolomic profile. Gordon Research Conference on Marine Natural Products, Ventura, CA, 28 Feb – 5 Mar, 2010.
- 340) Koplovitz G, **J.B. McClintock**, C.D. Amsler CD, and B.J. Baker. 2010. Potential resistance of Antarctic ascidians to sympatric bacterial epibiosis. Presented at the Society of Integrative and Comparative Biology meeting, Seattle, WI 3-7 January 2010.
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