

Charles D. Amsler

Education:

- B.A. Duke University, 1980
- M.S. University of North Carolina at Wilmington, 1983
- Ph.D. University of California at Santa Barbara, 1989

Academic Positions:

- Assistant Research Biologist, University of California at Santa Barbara, 1990
- Postdoctoral Research Associate, University of Illinois at Chicago, 1990-1994
- Assistant Professor, University of Alabama at Birmingham, 1994-2000
- Associate Professor, University of Alabama at Birmingham, 2000-2004
- Professor, University of Alabama at Birmingham, 2004-present
- Program Officer (rotator), National Science Foundation, 2013-2015

Selected Awards and Honors:

- Tyge Christensen Prize in Phycology (International Phycological Society), 2002
- Council for Advancement and Support of Education (CASE), District III Award of Excellence for Overall Website Design and Implementation (Antarctic educational outreach), 2005
- US Board of Geographic Names designated “Amsler Island” Antarctica, 2007
- National 2008 Silver Medal in the CASE Circle of Excellence Awards Program for Creative Use of Technology and New Media (Antarctic educational outreach), 2008
- President, Phycological Society of America, 2009
- Overseas Vice President, British Phycological Society, 2013-2015
- United States Representative to Scientific Committee on Antarctic Research Life Sciences Group, 2016-2026
- Caroline P. and Charles W. Ireland Prize for Scholarly Distinction, UAB, 2016
- Elected Fellow, American Association for the Advancement of Science, 2016
- Graduate Dean’s Award for Excellence in Mentorship, UAB, 2019
- Chair, Board of Trustees, Phycological Society of America, 2023-2027

Publications (Peer-Reviewed): *Except for natural products chemistry publications, author order is usually by contribution, not “PI last” and graduate students are usually corresponding authors on papers resulting from their dissertation research.*

Amsler, C.D., M.O. Amsler, S. Heiser, J.B. McClintock, K. Iken, A.W.E. Galloway, K. Iken, & A.G. Klein. 2024. Vertical distribution of brown and red macroalgae along the central Western Antarctic Peninsula. [Botanica Marina 67: in press.](#)

Iken, K., C.D. Amsler, K. Gorman, A.G. Klein, A.W.E. Galloway, M.O. Amsler, S. Heiser, R. Whippo, A.T. Lowe, J.B. Schram, Z.X. Schneider, & J.B. McClintock. 2023. Macroalgal input into the coastal food web along a gradient of seasonal sea ice cover along the Western Antarctic Peninsula. [Marine Ecology Progress Series 718: 1-22.](#)

Heiser, S., C.D. Amsler, S. Stoeckel, J.B. McClintock, B.J. Baker, & S.A. Krueger-Hadfield. 2023. Tetrasporophytic bias coupled with heterozygote deficiency in Antarctic *Plocamium* sp. (Florideophyceae, Rhodophyta). [Journal of Phycology 59: 681-697.](#)

Amsler, C.D., M.O. Amsler, A.G. Klein, A.W.E. Galloway, K. Iken, J.B. McClintock, S. Heiser, A.T. Lowe, J.B. Schram, & R. Whippo. 2023. Strong correlations of sea ice cover with macroalgal cover along the Antarctic Peninsula: Ramifications for present and future benthic communities. [Elementa: Science of the Anthropocene 11 \(1\): 00020.](#)

Heiser, S., **C.D. Amsler**, & S.A. Krueger-Hadfield. 2023. Microsatellite locus development in the seaweed *Plocamium* sp. [Antarctic Science 35: 43-45.](#)

Heiser, S., A.J. Shilling, **C.D. Amsler**, J.B. McClintock, & B.J. Baker. 2023. To change or not to change: drivers of defensive secondary metabolite distribution in the red macroalga *Plocamium* sp. [Marine Biology 170: 31.](#)

Bracegirdle, J., S.S. Olsen, M. Teng, K. Tran, **C.D. Amsler**, J.B. McClintock & B.J. Baker. 2023. Neosuberitenone, a new sesterterpenoid carbon skeleton; new Suberitenones; and bioactivity against Respiratory Syncytial Virus, from the Antarctic sponge *Suberites* sp. [Marine Drugs 21: 107.](#)

von Salm, J.L., C.G. Witowski, M.O. Amsler, **C.D. Amsler**, J.B. McClintock, & B.J. Baker. 2022. Amphipod diversity and metabolomics of the Antarctic sponge *Dendrilla antarctica*. [Antarctic Science 34: 349-360.](#)

Bracegirdle, J., S.J. Kennedy, C. Shan, L. Wojtas, L.N. Shaw, **C.D. Amsler**, J.B. McClintock & B.J. Baker. 2022. Tongalides, halogenated butenolides from an Antarctic *Delisea* sp. rhodophyte. [Journal of Natural Products 85: 1886-1891.](#)

Amsler, C.D., L.R. Miller, R.A. Edwards, M.O. Amsler, W. Engl, J.B. McClintock, & B.J. Baker. 2022. Gastropod assemblages associated with *Himantothallus grandifolius*, *Sarcopeltis antarctica*, and other subtidal macroalgae. [Antarctic Science 34: 246-255.](#)

Heiser, S., **C.D. Amsler**, C.J. Brothers, M.O. Amsler, A.J. Shilling, L. Bozarth, C.B. Davis, J.B. McClintock, B.J. Baker. 2022. Who cares more about chemical defenses – the macroalgal producer or its main grazer? [Journal of Chemical Ecology 48: 416-430.](#)

Shilling, A.J., S. Heiser, **C.D. Amsler**, J.B. McClintock, & B.J. Baker. 2021. Hidden diversity in an Antarctic algal forest: metabolomic profiling linked to patterns of genetic diversification in the Antarctic red alga *Plocamium* sp. [Marine Drugs 19: 607.](#)

Heiser, S., **C.D. Amsler**, J.B. McClintock, A.J. Shilling, & B.J. Baker. 2020. Every rule has an exception: a cheater in the community-wide mutualism in Antarctic seaweed forests. [Integrative and Comparative Biology 60: 1358-1368.](#)

Bory, A., A.J. Shilling, J. Allen, A. Azhari, A. Roth, L.N. Shaw, D.E. Kyle, J.H. Adams, **C.D. Amsler**, J.B. McClintock, & B.J. Baker. 2020. Bioactivity of spongian diterpenoid scaffolds from the Antarctic sponge *Dendrilla antarctica*. [Marine Drugs 18: 327.](#)

Shilling, A.J., C.G. Witowski, J.A. Maschek, A. Azhari, B.A. Vesely, D.E. Kyle, **C.D. Amsler**, J.B. McClintock, & B.J. Baker. 2020. Spongian diterpenoids derived from the Antarctic sponge *Dendrilla antarctica* are potent inhibitors of the *Leishmania* parasite. [Journal of Natural Products 83: 1553-1562.](#)

Amsler, C.D., J.B. McClintock, & B.J. Baker. 2020. Chemical mediation of Antarctic macroalga-grazer interactions. In: Gómez, I. & P. Huovinen (eds.), *Antarctic Seaweeds: Diversity, Adaptation and Ecosystem Services*. Springer. [pp. 339-363](#).

McClintock, J.B., **C.D. Amsler**, M.O. Amsler, & W.R. Fraser. 2020. Intertidal foraging by Gentoo penguins in a macroalgal raft. [Antarctic Science 32: 43-44](#).

Schram, J.B., **C.D. Amsler**, & J.B. McClintock. 2019. Contrasting chemotactic escape responses of the common Antarctic gastropod *Margarella antarctica* to four species of sympatric sea stars (western Antarctic Peninsula). [Polar Science 22: 100486](#).

Schram, J.B., M.O. Amsler, A.W.E. Galloway, **C.D. Amsler**, & J.B. McClintock. 2019. Fatty acid trophic transfer of Antarctic algae to a sympatric amphipod consumer. [Antarctic Science 31: 315-316](#).

Küpfer, F.C., **C.D. Amsler**, S. Morley, B. de Reviers, A. Reichardt, L.S. Peck, & A.F. Peters. 2019. Juvenile morphology of the large Antarctic canopy-forming brown alga, *Desmarestia menziesii* J. Agardh. [Polar Biology 42: 2097-2103](#).

Ryan, W.H., S. Heiser, M.D. Curtis, **C.D. Amsler**, T. Bayer, G. Bonthond, G. Wang, F. Weinberger, & S.A. Kruger-Hadfield. 2019. The use of photographic color information for high-throughput phenotyping of pigment composition in *Agarophyton vermiculophyllum*. [Cryptogamie, Algologie 40: 73-83](#).

Shilling, A.J., J.L. 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](#).

Amsler, C.D., M.O. Amsler, M.D. Curtis, J.B. McClintock, & B.J. Baker. 2019. Impacts of gastropods on epiphytic microalgae on the brown macroalga *Himantothallus grandifolius*. [Antarctic Science 31: 89-97](#).

von Salm, J.L., K.M. Schoenrock, J.B. McClintock, **C.D. Amsler**, & B.J. Baker. 2019. The status of marine chemical ecology in Antarctica: form and function of unique high-latitude chemistry. Puglisi, M.P. & M.A. Becerro (eds.), [Chemical Ecology: The Ecological Impacts of Marine Natural Products](#). CRC Press. pp. 27-69.

Duquette, A., J.B. McClintock, **C.D. Amsler**, A. Pérez-Huerta, M. Milazzo, & 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](#).

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Demko, A.M., **C.D. Amsler**, M.E. Hay, J.D. Long, J.B. McClintock, V.J. Paul, & E.E. Sotka. 2017. Declines in plant palatability from polar to tropical latitudes depend on herbivore and plant identity. [Ecology 98: 2312-2321](#).

Aumack, C.F., A.T. Lowe, **C.D. Amsler**, M.O. Amsler, J.B. McClintock, & 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](#).

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von Salm, J.L., C.G. Witowski, R.M. Fleeman, J.B. McClintock, **C.D. Amsler**, L.N. Shaw, & 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](#).

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McDowell, R.E., **C.D. Amsler**, M.O. Amsler, Q. Li, & J.R. Lancaster, Jr. 2016. Control of grazing by light availability via light-dependent, wound-induced metabolites: the role of reactive oxygen species. [Journal of Experimental Marine Biology and Ecology 477: 86-91](#).

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](#).

Schram, J.B., K.M. Schoenrock, J.B. McClintock, **C.D. Amsler**, & R.A. Angus. 2015. Multi-frequency observations of seawater pH, alkalinity, and carbonate chemistry on the central coast of the western Antarctic Peninsula. [Polar Research 34: 25582](#).

Schoenrock, K.M., **C.D. Amsler**, J.B. McClintock, & B.J. Baker. 2015. A comprehensive study of Antarctic algal symbioses: minimal impacts of endophyte presence in most species of macroalgal hosts. [European Journal of Phycology 50: 271–278](#).

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Schram, J.B., J.B. McClintock, **C.D. Amsler**, & B.J. Baker. 2015. Impacts of acute elevated seawater temperature on the feeding preferences of an Antarctic amphipod toward chemically deterrent macroalgae. [Marine Biology 162: 425-433.](#)

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McDowell, R.E., **C.D. Amsler**, D.A. Dickinson, J.B. McClintock, & B.J. Baker. 2014. Reactive oxygen species and the Antarctic macroalgal wound response. [Journal of Phycology 50: 71-80.](#)

Amsler, C.D., J.B. McClintock, & B.J. Baker. 2014. Chemical mediation of mutualistic interactions between macroalgae and mesograzers structure unique coastal communities along the western Antarctic Peninsula. [Journal of Phycology 50: 1-10.](#)

Schoenrock, K.M., **C.D. Amsler**, J.B. McClintock, & B.J. Baker. 2013. Endophyte presence as a potential stressor on growth and survival in Antarctic macroalgal hosts. [Phycologia 52: 595-599.](#)

Amsler, M.O., **C.D. Amsler**, J.L. von Salm, C.F. Aumack, J.B. McClintock, R.M. Young, & B.J. Baker. 2013. Tolerance and sequestration of macroalgal chemical defenses by an Antarctic amphipod: a 'cheater' among mutualists. [Marine Ecology Progress Series 490: 79-90.](#)

Pawlik, J.R., **C.D. Amsler**, R. Ritson-Williams, J.B. McClintock, B.J. Baker, & V.J. Paul. 2013. Marine chemical ecology: a science born of scuba. In: *Research and Discoveries: The Revolution of Science through Scuba*. Lang, M.A., R.L. Marinelli, S.J. Roberts, & P.R. Taylor (eds.). ([Smithsonian Contributions to the Marine Sciences, no. 39](#)), Smithsonian Institution Scholarly Press, Washington DC, pp. 53-69.

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Lebrato, M., J.B. McClintock, M.O. Amsler, J.B. Ries, H. Egilsdottir, **C.D. Amsler**, R.C. Challener, J.B. Schram, C.L. Mah, J. Cuce, & B.J. Baker. 2013. From the Arctic to the Antarctic: Trace and rare elemental geochemistry of echinoderm skeletons. [Ecology 94: 1434.](#)

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