

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
- Award of Excellence (lifetime achievement), Phycological Society of America, 2024

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.*

Fernández, P.A., **C.D. Amsler**, C.L. Hurd, P.A. Diaz, J.D. Gaitán-Espitia, A. Schmider, I. Garrido, P. Murua, E.C. Macaya, & A.H. Buschmann. 2024. Diverse inorganic carbon uptake strategies in Antarctic seaweeds: Revealing species-specific responses and implications for Ocean Acidification. [Science of the Total Environment 945: 174006](#).

Galloway, A.W.E., J.B. Schram, A.T. Lowe, R. Whippo, S. Heiser, K. Iken, J.B. McClintock, A.G. Klein, M.O. Amsler, & **C.D. Amsler**. 2024. Trophic stability and change across a sea ice cover gradient on the western Antarctic Peninsula. [Marine Ecology Progress Series 735: 43-61](#).

Whippo, R., K. Iken., **C.D. Amsler**, A.T. Lowe, J.B. Schram, A.G. Klein, S. Heiser, M.O. Amsler, J.B. McClintock, & A.W.E. Galloway. 2024. Fatty acid profiles and stable isotope composition of Antarctic macroalgae: A baseline for a combined biomarker approach in food web studies. [Polar Biology 47: 367–386](#).

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: 1-10](#).

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.](#)

Küpper, F.C., **C.D. Amsler**, S. Morley, B. de Reviere, 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.](#)

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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.

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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](#).

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](#).

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](#).

Schram, J.B., M.O. Amsler, **C.D. Amsler**, K.M. Schoenrock, J.B. McClintock, & R.A. Angus. 2016. Antarctic benthic grazer assemblages exhibit resistance following exposure to decreased pH. [Marine Biology 163: 106](#).

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 73: 739-752](#).

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](#).

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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.](#)

Schoenrock, K.M., J.B. Schram, **C.D. Amsler**, J.B. McClintock, & R.A. Angus. 2015. Climate change impacts on over-story *Desmarestia* spp. from the western Antarctic Peninsula. [Marine Biology 162: 377–389.](#)

Wiencke, C., **C.D. Amsler**, & M.N. Clayton. 2014. Macroalgae. In: *Biogeographic Atlas of the Southern Ocean*, De Broyer C., Koubbi P., Griffiths H.J., Raymond B., d’Udekem d’Acoz C., Van de Putte A.P., Danis B., David B., Grant S., Gutt J., Held C., Hosie G., Huettmann F., Post A., & Ropert-Coudert Y. (eds.). Scientific Committee on Antarctic Research, Cambridge, UK. [pp. 66-73.](#)

McDowell, R.E., **C.D. Amsler**, J.B. McClintock, & B.J. Baker. 2014. Reactive oxygen species as a grazing defense in marine systems: H₂O₂ and wounded *Ascoseira mirabilis* both inhibit feeding by an amphipod grazer. [Journal of Experimental Marine Biology and Ecology 458: 34-38.](#)

Schram, J.B., K.M. Schoenrock, J.B. McClintock, **C.D. Amsler**, & R.A. Angus. 2014. Multiple stressor effects of near-future elevated seawater temperature and decreased pH on righting and escape behaviors of two common Antarctic gastropods. [Journal of Experimental Marine Biology and Ecology 457: 90-96.](#)

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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