Stanford

David Armenta

Lecturer

Biology

Bio

BIO

David Armenta is a Lecturer in the Department of Biology. He earned his bachelor's degree in molecular and cellular biology from Harvard University. Working as an undergraduate intern in the lab of Andrew Murray, he studied mechanisms underlying evolution and adaptation in budding yeast. Next, he earned his PhD in Biology (cells, molecules, and organisms track) from Stanford University, working with Scott Dixon to study how amino acid metabolism regulates sensitivity of cancer cells to the nonapoptotic cell death mechanism of ferroptosis. Next, he taught for 3 years as a Lecturer in the the Civic, Liberal, and Global Education (COLLEGE) program. Now, he is excited to be teaching with the Biology Department!

ACADEMIC APPOINTMENTS

- Lecturer, Biology

Teaching

COURSES

2025-26

- Bioethics: Frameworks and Applications: BIO 128S (Sum)
- Biology in the News: BIO 15S (Sum)
- Cancer: Biology, History, and Therapy: BIO 23Q (Aut)
- The Independent Capstone in Biology: BIO 199A (Spr)
- The Independent Capstone in Biology: BIO 199B (Aut)
- The Independent Capstone in Biology: BIO 199C (Win)

2024-25

- Biology in the News: BIO 15S (Sum)
- Cancer: Biology, History, and Therapy: BIO 23Q (Win)
- Citizenship in the 21st Century: COLLEGE 102 (Win)
- Living with Viruses: COLLEGE 112 (Spr)
- The Independent Capstone in Biology: BIO 199A (Spr)
- Why College? Your Education and the Good Life: COLLEGE 101 (Aut)

2023-24

- Advances in Cancer Biology Research and Cancer Treatments: BIO 40S (Sum)

- Biology in the News: BIO 15S (Sum)
- Citizenship in the 21st Century: COLLEGE 102 (Win)
- Living with Viruses: COLLEGE 112 (Spr)
- Why College? Your Education and the Good Life: COLLEGE 101 (Aut)

2022-23

- Citizenship in the 21st Century: COLLEGE 102 (Win)
- Living with Viruses: COLLEGE 112 (Spr)
- Why College? Your Education and the Good Life: COLLEGE 101 (Aut)

Publications

PUBLICATIONS

- **Ferroptosis inhibition by lysosome-dependent catabolism of extracellular protein.** *Cell chemical biology*
  Armenta, D. A., Laqtom, N. N., Alchemy, G., Dong, W., Morrow, D., Poltorack, C. D., Nathanson, D. A., Abu-Remalieh, M., Dixon, S. J.
  2022
- **Context-dependent regulation of ferroptosis sensitivity.** *Cell chemical biology*
  Magtanong, L., Mueller, G. D., Williams, K. J., Billmann, M., Chan, K., Armenta, D. A., Moffat, J., Boone, C., Myers, C. L., Olzmann, J. A., Bensinger, S. J., Dixon, S. J.
  2022
- **A compendium of kinetic modulatory profiles identifies ferroptosis regulators.** *Nature chemical biology*
  Conlon, M., Poltorack, C. D., Forcina, G. C., Armenta, D. A., Mallais, M., Perez, M. A., Wells, A., Kahanu, A., Magtanong, L., Watts, J. L., Pratt, D. A., Dixon, S. J.
  2021
- **Investigating Nonapoptotic Cell Death Using Chemical Biology Approaches.** *Cell chemical biology*
  Armenta, D. A., Dixon, S. J.
  2020