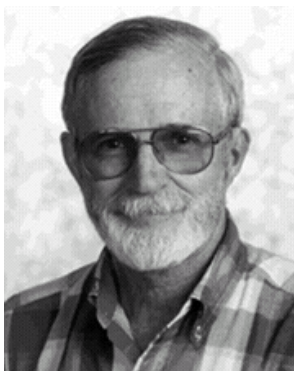


Faculty Profile

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Faculty Directory

Robert Bates

Professor Emeritus- Retired

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Building: CSML 644

Phone: 520-621-6317

Honors

- Graduate Teaching and Mentoring Award, University of Arizona, 2000
- Outstanding Faculty Mentor of Graduate Students, University of Arizona, 2000
- Five-star Teaching Award Finalist, University of Arizona, 1983
- Welch Foundation Lectureship, 1977
- Sloan Foundation Fellowship, 1967-1969

Education and Appointments

- B.S. 1954, Rutgers University
- Ph.D. 1957, University of Wisconsin

Research Interests

- Organic
- Bioorganic
- Materials and Polymer Chemistry
- Spectroscopy/molecular Structure
- Synthesis/Synthetic Methods Development

Research Summary

Bioorganic Chemistry

We determine structures of complex bioactive natural products in collaboration with many groups around the world, mainly by NMR methods. Currently several anticancer agents and an antiviral agent are under study. In the synthesis area, we recently completed the first synthesis of an anticancer agent produced by soil bacteria from the Santa Catalina Mountains.

Selected Publications

- A.A. Bodour, C. Guerrero-Barajas, B.V. Jiorle, M.E. Malcomson, A.K. Paull, A. Somogyi, L.N. Trinh, R.B. Bates, and R.M. Maier, *Appl. Environ. Microbiology*, **70**, 114 (2004). (Structure and Characterization of Flavolipids, a Novel Group of Biosurfactants Produced by *Flavobacterium* sp. Strain MTN11).
- M.A. Ali, R.B. Bates, Z.D. Crane, C.W. Dicus, M.R. Gramme, E. Hamel, J. Marcischak, D.S. Martinez, K.J. McLure, P. Nakkiew, G.R. Pettit, C.C. Stessman, B.A. Sufi, and G.V. Yarick, *Bioorg. Med. Chem.*, **13**, 4138 (2005). (Dolastatin 11 conformations, analogues and pharmacophore).
- S.D. Jolad, R.C. Lantz, G.J. Chen, R.B. Bates, B.N. Timmermann, *Phytochem.*, **66**, 1614 (2005). (Commercially processed dry ginger (*Zingiber officinale*): Composition and effects on

LPS-stimulated PGE2 production).

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