JOHN A. PORCO, JR.

Boston University, Department of Chemistry
Boston, MA

Title of Lecture: "Chemical Synthesis and Biological Studies of the Rocaglates and Derivatives"

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Education:

1992	Ph.D., Organic Chemistry, Harvard University
1988	M.S., Organic Chemistry, Yale University
1985	B.S. with Honors, Chemistry, College of the Holy Cross

Research and Professional Experience

1986-1988	Graduate Research Assistant, Yale University
1988-1992	Graduate Research Assistant, Harvard University
1992-1993	Postdoctoral Fellow, Biological Chemistry, Scripps Research Institute
1993-1994	Venture Capital Associate, Avalon Ventures
1995-1997	Group Leader, Automated Chemistry, Argonaut Technologies
1997-1999	Director, Parallel Medicinal Chemistry, Argonaut Technologies
1999-2002	Founder/Director, Boston University Center for Streamlined Synthesis
1999-present	Assistant Professor of Pharmacology, Boston University School of Medicine
1999-2004	Assistant Professor of Chemistry, Boston University
2004-present	Professor of Chemistry, Department of Chemistry and Pharmacology, Boston University School of Medicine
2002-2014	Director, Center for Chemical Methodology and Library Development at Boston University (CMLD-BU), Boston University
2014-present	Director, Center for Molecular Discovery (BU-CMD), Boston University

Academic and Professional Awards and Honors

Arthur C. Cope Scholar Award (American Chemical Society, 2009)
Novartis Chemistry Lectureship Award (2009)
Merck Research Laboratories Academic Development Program (ADP) Award (2005, 2006, 2007)
Novartis Chemistry Grantee (2003)
2003 Bristol-Myers Squibb MS Unrestricted Grant in Synthetic Organic Chemistry (2003-2005)
American Cancer Society Research Scholar Grantee, July, 2001- June 30, 2005
American Chemical Society PRF Type G Grantee, September 2000-September 2002
National Science Foundation Postdoctoral Fellowship, March 1992
American Chemical Society Organic Division Award, Pfizer Fellowship, July 1989

Research Interests

Professor Porco's research is focused in two major areas: the development of new synthetic methodologies for efficient chemical synthesis of complex molecules and synthesis of complex chemical libraries. Synthetic methodologies developed in his laboratory include: copper (I)-mediated formation of enamides, *oxa*-electrocyclization/dimerization of dienals enroute to complex epoxyquinoid frameworks; enantioselective oxidative dearomatization using chiral copper complexes and molecular oxygen; photocycloaddition using oxidopyryliums enroute to the rocaglamides and related natural products, and catalytic ester-amide exchange using group (IV) metal alkoxide-activator complexes. In the past seventeen years, his research group has synthesized numerous complex natural product targets, including torreyanic acid, the salicylate enamide macrolides lobatamide C and oximidines, the rocaglamides, silvestrol, ponapensin, secalonic acids A and D, and kinamycin C.