SCOTT J. MILLER

Yale University, Department of Chemistry
New Haven, Connecticut

Title of Lecture: "Searching for Selective Catalytic Reactions in Complex Molecular Environments"

Phone: 203-432-9885
Email: scott.miller@yale.edu

Education:

1994	Ph.D., Harvard University
1989	B.A. / M.A., Harvard University

Research and Professional Experience

1994-1996	NSF Postdoctoral Fellow, California Institute of Technology
1996-2001	Assistant Professor of Chemistry, Boston College
2001-2002	Associate Professor of Chemistry, Boston College
2002-2006	Professor of Chemistry, Boston College
2006-Present	Professor of Chemistry, Yale University
2008-Present	Irénée du Pont Professor of Chemistry, Yale University
2009-2015	Chair, Department of Chemistry, Yale University
2015-2017	Divisional Director of Science, Yale University

Awards

Scott Miller's awards and honors include: National Science Foundation CAREER Award (1999); Cottrell Scholar Award (1999) and Research Innovation Award (1998) of Research Corporation; Alfred P. Sloan Research Fellowship (2000), Camille Dreyfus Teacher-Scholar Award (2000); DuPont Young Professor Award (2000); Novartis Chemistry Lectureship Award (2000); GlaxoSmithKline Chemistry Scholar Award (2000); Lilly Grantee Award (2000); Merck Chemistry Council Awards (2001-2008); Pfizer Award for Creativity in Organic Chemistry (2003); Arthur C. Cope Scholar Award of the American Chemical Society (2004); Robert Burns Woodward Visiting Scholar at Harvard University (2005); Boehringer-Ingelheim Cares Foundation Award (2006); Yoshimasa Hirata Memorial Gold Medal of Nagoya University (2009); National Institutes of Health MERIT Award (2011); Fellow of the American Association for the Advancement of Science (2012); American Chemical Society Award for Creative Work in Synthetic Organic Chemistry (2016); Member, American Academy of Arts and Sciences (2016).

Research Interests

Professor Miller's research program focuses on problems in catalysis. His group employs strategies that include catalyst design, the development of combinatorial techniques for catalyst screening, and the application of these approaches to the preparation of biologically active agents. Three particular interests of his laboratory are (a) the selective functionalization of complex molecules, (b) the exploration of potential analogies between synthetic catalysts and enzymes and (c) the discovery of molecules that are effective antibiotics despite increasing resistance challenges