SARAH E. REISMAN

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Division of Chemistry and Chemical Engineering
Pasadena, California

Title of Lecture: "Necessity is the Mother of Invention: Natural Products and the Chemistry They Inspire"

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Education:

2006	Ph.D., Organic Chemistry, Yale University
2001	B.A., Chemistry, Connecticut College

Research and Professional Experience

2014 - present	Professor of Chemistry, Division of Chemistry & Chemical Engineering, California Institute of Technology
2015 - present	Executive Officer for Chemistry, Division of Chemistry & Chemical Engineering, California Institute of Technology
2015 - present	Investigator, Heritage Medical Research Institute, California Institute of Technology
2008 - 2014	Assistant Professor of Chemistry, Division of Chemistry & Chemical Engineering, California Institute of Technology
2006 - 2008	National Institutes of Health Postdoctoral Fellow, Harvard University

Awards and Honors

Dr. James King, Jr. Award for Supporting Student Diversity, Caltech (2018); Heritage Medical Research Institute Investigator (2015-2018, 2018-2021); The Society of Synthetic Organic Chemistry, Japan Lectureship Award (2015); 2015 Bright Young Minds, recognized by *Science News* (2015); Bristol-Myers Squibb Unrestricted Grant in Synthetic Organic Chemistry (2014-2015); Tetrahedron Young Investigator Award (2014); Academy of Achievement, Delegate (2014); Arthur C. Cope Scholar Award (2013); American Cancer Society Research Scholar Award (2013-2016); Eli Lilly Grantee (2012-13); Novartis Early Career Award (2012-14); DuPont Young Professor Grant (2012-14); Amgen Young Investigator Award (2012); Camille Dreyfus Teacher-Scholar Award (2012); Cottrell Scholar Award (2012); Alfred P. Sloan Research Fellowship (2012); ACS WCC Rising Star Award (2012); Boehringer Ingelheim New Faculty Grant (2011); NSF CAREER Award (2011-2015); ACS PRF Doctoral New Investigator Award (2011-2013); Thieme Chemistry Journal Award (2011); Baxter Foundation New Faculty Award (2008); NIH NRSA Postdoctoral Fellowship (2006-2008); Certificate of Distinction in Teaching, Harvard College (2006); Wolfgang Prize for Best Thesis, Yale University (2006); Bristol-Myers Squibb Graduate Research Fellowship (2004-2005); Roche Pharmaceuticals Excellence in Chemistry Award (2004); Arthur J. and Helen Hill Endowed Fellowship, Yale University (2004); Yale University Chemistry Department Teaching Award, Yale University (2003); Jean V. Johnston Award in Chemistry, Connecticut College (2001); Pfizer Summer Undergraduate Research Fellowship (2000); Award for Achievement in Organic Chemistry, Connecticut College (1999); Lawrence Scholar Award, Connecticut College (1997).

Research Interests

Professor Reisman's research seeks to discover, develop, and study new chemical reactions in the context of natural product synthesis. Our group is currently pursuing the synthesis of a number of structurally complex natural products, including the diterpenoids perseanol and talatisamine. The densely-packed arrays of heteroatoms and stereogenic centers that constitute these polycyclic targets challenge the limits of current technology and inspire the development of new synthetic strategies and tactics.