

## **Kyle Cole**

Director of the Office of STEM Outreach, Stanford University

### **A. Professional Preparation**

- University of California at Santa Cruz., B.A. in Biology received in 1989.
- Sonoma State University, M.A. in Biology received in 1994.
- Yale University, Ph. D. in Biology received in 2000.

### **B. Appointments**

- 2023-Present Director of Education and STEM Outreach, Stanford University
- 2019-2022 Director of the Office of STEM Outreach, Stanford University
- 2018-2019 Director of Diversity and Inclusion, Center for Teaching and Learning, Stanford University
- 2017-2018 Director of STEM Initiatives, VPUE, Stanford University
- 2008-2017 Director of the Office of Precollege Programs, Oregon State University.
- 2015-2017 Director of the Science and Math Investigative Learning Experience (SMILE) Program, Oregon State University.
- 2005-2008 Associate Director of the Center for Probing the Nanoscale, Stanford University
- 2000-2005 Research Manager, Affymetrix, Inc. Santa Clara California

### **C. Products**

- Direct-labeling of RNA with multiple-biotins allows sensitive expression profiling of acute leukemia class predictor genes. Kyle Cole, Vivi Truong, Dale Barone, Glenn McGall. NAR, 32(11):e86-95 (2004).
- The effect of a single, temperature sensitive mutation on global gene expression in E. coli, Yong Li, Kyle Cole and Sidney Altman, RNA 9(5):518-532 (2003).
- Directed Evolution of Terminal Transferase, Invited talk at Gordon Research conference on Ecology and Evolutionary Biology, Santa Monica CA (2002).
- Protein cofactor-dependent acquisition of novel catalytic activity by the RNase P ribonucleoprotein of E. coli. Kyle Cole and R.L. Dorit, J Mol Biol, 307:5 1181-212 (2001).
- Acquisition of novel catalytic activity by the M1 RNA ribozyme: the cost of Molecular adaptation. Kyle Cole and Robert Dorit, J Mol Biol, 292 (4), 931-944 (1999).

### **D. Synergistic Activities**

- Deliver NSF RET Teaching Engineering Design and Innovation program, support broader impact and outreach work of Stanford researchers through grant writing, consultation, and development of networks with community partners.
- Developed the Physics Learning Assistant program which uses near-peer mentoring and inclusive teaching practices to support the success of underrepresented students in STEM.
- Produced “An Overview of Programs and Enhancements that support URM and FLI student success in STEM at Stanford” report to identify key investment opportunities to support student learning.

- Leadership of the Office of Precollege Programs which served over 40,000 youth and 1,200 teachers across Oregon through programs ranging from mobile STEM camps, to teacher professional development institutes.
- Developed the Summer Institute for Middle School Teachers (SIMST), Stanford University, Summer 2006-2007. Created a teacher development program as the cornerstone of CPN's outreach efforts. Designed inquiry-based lessons and activities that use CPN research to engage students while explicitly addressing eighth-grade physical science content standards.