

# Altering Nature with Gene Drives

## We can, but should we?

### Science and Mathematics Colloquium Series

**Presentation by James P. Collins**  
Virginia M. Ullman Professor of Natural History and  
the Environment  
ASU School of Life Sciences

**Wed., Oct. 3, 2018**  
**3 – 4 p.m.**

**Student Union, Cooley Ballroom B**  
**ASU Polytechnic campus**

Recent advances in the technology of gene editing are revolutionizing our ability to modify organisms genetically. In particular, the CRISPR/Cas9 technology makes it easier and cheaper to alter precisely an organism's genome. But does this breakthrough bring with it only advantages? This presentation will cover some of the exciting science surrounding modern gene editing along with cautionary thoughts raised by this provocative ability to edit life.

Dr. Collins's research group studies host-pathogen biology and its relationship to the decline of species, at times even to extinction. Dr. Collins's research also focuses on the intellectual and institutional factors that have shaped ecology's development as a discipline as well as ecological ethics.

Faculty and practitioners discuss their current research and field projects in the Science and Mathematics Colloquium Series, held throughout the academic year at ASU's Polytechnic campus. All seminars are free and open to the public.



James Collins has been a faculty member at ASU since 1975. From 1989 to 2002 he chaired ASU's zoology, then biology department. At NSF, Collins directed the Population Biology and Physiological

Ecology program (1985-86) and from 2005-09 headed the Biological Sciences Directorate. He is a Fellow of the American Association for the Advancement of Science, and of the Association for Women in Science. He chairs the Board on Life Sciences of the US National Academies of Sciences, Engineering, and Medicine (NASEM).

   **CISAASU**

**cisa.asu.edu**

 **College of Integrative  
Sciences and Arts**  
Arizona State University