

Microbiome Workshop: Reflections on NSF's Understanding the Rules of Life Program

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MEETING OBJECTIVES

- Discuss individual and collective scientific advancements toward understanding heuristics, predictable processes, and their exceptions for biological systems.
- Understand the contributions of disciplinary convergence in enabling or driving the scientific advances.
- Determine how research groups incorporated multi-disciplinary, systems-level approaches into their projects.
- Identify the broader implications of the scientific advances and research ecosystem (e.g., multi-disciplinary research) from research funded by the URoL program to address highly complex, interconnecting systems (e.g., the biosphere) and discuss the future of life-science research and education.
- Explore future societal needs and scientific questions that may be addressed by the achievements from the URoL (i.e., identify opportunities for exploration).
- Highlight rules of life that are generalizable across fields and scales.

FEBRUARY 22, 2023

OPEN

10:00-10:05 am EST Welcome and Introductions

Jo Handelsman, Wisconsin Institute for Discovery
Jennifer Martiny, University of California, Irvine
Margaret McFall-Ngai, Carnegie Institution for Science

10:05-10:10 am Workshop Agenda, Goals, and Expectations

Jo Handelsman, Wisconsin Institute for Discovery
Jennifer Martiny, University of California, Irvine
Margaret McFall-Ngai, Carnegie Institution for Science

10:10-12:10 pm Interactive Discussion of the URoL Principal Investigators' Responses to Previously Sent Questions

Moderators:

Jo Handelsman, Wisconsin Institute for Discovery

Epigenetics Workshop: Reflections on NSF's Understanding the Rules of Life Program

Jennifer Martiny, University of California, Irvine

Margaret McFall-Ngai, Carnegie Institution for Science

Principle Investigators:

Eric Allen, Scripps Institution of Oceanography, University of California San Diego

Jose Cerrato, The University of New Mexico

Rosalina Christova, California State University San Marcos

Robert Thacker, Stony Brook University

Rebecca Vega Thurber, Oregon State University

Jizhong Zhou, Institute for Environmental Genomics, University of Oklahoma

12:10-12:20 pm

Break

12:20-1:00 pm

Attendees' views on common themes and summary of key outcomes and themes

Jo Handelsman, Wisconsin Institute for Discovery

Jennifer Martiny, University of California, Irvine

Margaret McFall-Ngai, Carnegie Institution for Science

1:00 pm

Adjourn