NATIONAL ACADEMIES Sciences Engineering Medicine

Synthetic Cells 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.

MARCH 21, 2023

OPEN

12:00-12:10pm EST **Welcome and Introductions, Workshop Goals and Expectations**

Kate Adamala, University of Minnesota

Eric Gaucher, Georgia State University of California

Corey Wilson, Georgia Institute of Technology

12:10-2:20 pm **Interactive Discussion of the UroL Principle Investigators' Responses to Previously Asked Questions**

Moderators:

Kate Adamala, University of Minnesota

Eric Gaucher, Georgia State University of California

Corey Wilson, Georgia Institute of Technology

Discussants:

Jef Boeke, New York University

Mary Elting, North Caroline State University

Farren Isaacs, Yale University
Chris Kempes, Santa Fe Institute
Allen Liu, University of Michigan
Sindy KY Tang, Stanford University

2:20-2:30 pm **Break**

2:30-3:00 pm **Attendees Views on Common Themes, Summary of Key Outcomes and Themes**
Kate Adamala, University of Minnesota
Eric Gaucher, Georgia State University of California
Corey Wilson, Georgia Institute of Technology

3:00 pm **Adjourn**