Rutgers Annual ENIGMA Astrobiology Symposium

Virtual
WebEx link for Day 1 – June 16
https://rutgers.webex.com/rutgers/j.php?MTID=m927527c3812fe5c6cee1cc16dd9be88e

WebEx link for Day 2 – June 17
https://rutgers.webex.com/rutgers/j.php?MTID=m7b03fa5efaee9c1299e5518ff5e4931f

How did proteins evolve to become the predominant catalysts of life on Earth?

Tuesday, June 16th from 12:00PM – 16:15PM EST

Noon-12:15 Welcome and Introductory Comments - Paul Falkowski

12:15-12:45 Overview of Theme 1: Synthesis and Function of Nanomachines in the Origin of Life
Vik Nanda - Plenary

12:45-13:15 Daniel Segrè, Boston University – Traces of Early Life in the Architecture of Metabolic Networks

13:15-13:45 Overview of Theme 2: Increasing Complexity of Nanomachines in Microbial Ancestors
Yana Bromberg - Plenary

13:45-14:15 Cara Magnabosco, ETH Zurich – Biogeodynamic Models for Deep Time

14:15-14:45 Overview of Theme 3: Co-Evolution of Nanomachines and the Geosphere
Nathan Yee - Plenary

14:45-15:15 Vamsi Mootha, Harvard Medical School – Mitochondria and Oxygen: from Evolutionary Origins to Human Disease

15:15-15:45 Review and Discussion of Education and Outreach
Janice McDonnell - Plenary

15:45-16:15 Open discussion of the day’s presentations

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Wednesday, June 17th from 12:00PM – 16:15PM EST

Noon-12:30  Yi Lu, University of Illinois – Designing Redox-active Metalloenzymes Involved in Electron Transfer Processes

12:30-13:30  Plenary Presentations: Theme 1 (3)
  • Presentations by Saroj Poudel, Bhanu Jagilinki, Kenneth McGuinness

13:30-14:30  Plenary Presentations: Theme 2 (3)
  • Presentations by Adrienne Hoarfrost, Ariel Aptekmann, Julian Esselborn

14:30-15:30  Plenary Presentations: Theme 3 (3)
  • Presentations by Bob Hazen, Joy Buongiorno, Jihua Hao

15:30-16:15  Final Discussions: Review research priorities for Year 3

16:15  Adjourn

The ENIGMA research team is part of the Astrobiology at NASA program

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