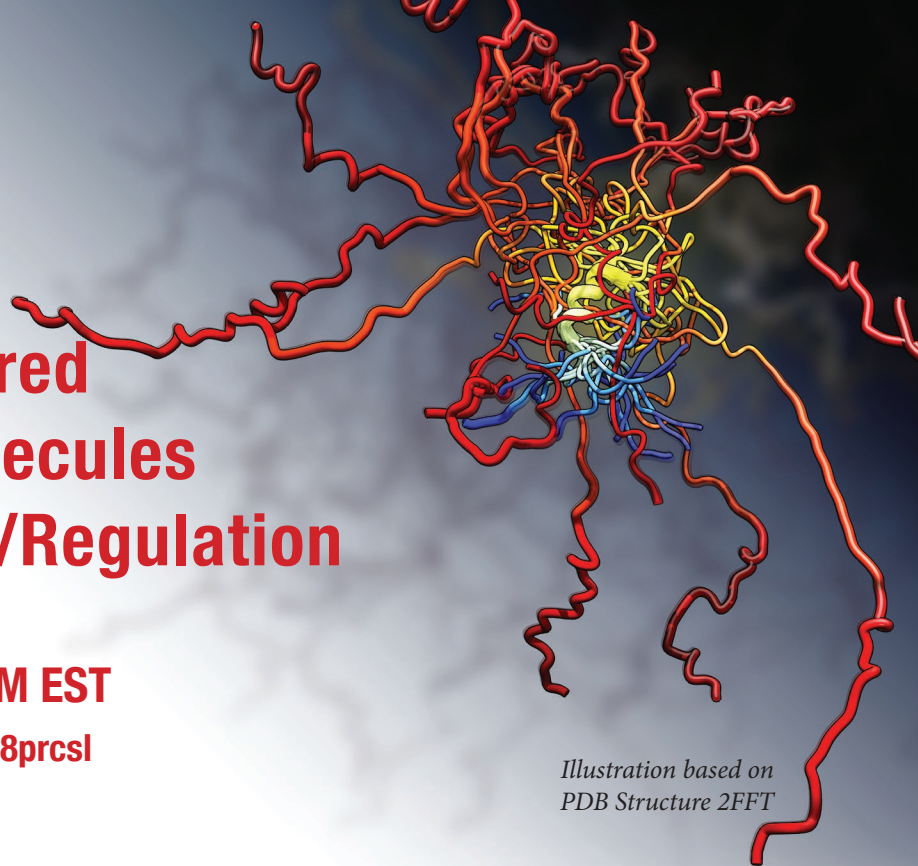


**VIRTUAL CRASH COURSE:**  
**Intrinsically Disordered  
Biological Macromolecules  
in Cellular Signaling/Regulation**

**Tuesday, April 19<sup>th</sup> 2022 • 1:00 PM EST**

**Registration (required): [go.rutgers.edu/pc8prcsi](https://go.rutgers.edu/pc8prcsi)**



*Illustration based on  
PDB Structure 2FFT*

**Program**

**Co-Chairs:**

Stephen K. Burley, M.D., D.Phil., Edmund C. Lattime, Ph.D., and Clifford P. Brangwynne, Ph.D.

- |             |   |
|-------------|---|
| 1:00-1:05pm | <i>Welcome and introduction</i><br>Stephen K. Burley, M.D., D.Phil., Rutgers Institute for Quantitative Biomedicine<br>Steven K. Libutti, M.D., F.A.C.S., Rutgers Cancer Institute of New Jersey          |
| 1:05-1:15pm | <i>Crash course objectives</i><br>Edmund C. Lattime, Ph.D., Rutgers Cancer Institute of New Jersey  |
| 1:15-1:45pm | <i>Understanding membrane-less organelles/condensates within living cells</i><br>Clifford P. Brangwynne, Ph.D., Princeton University-Chemical and Biological Engineering, Howard Hughes Medical Institute |
| 1:45-2:15pm | <i>Theory of associative polymers and implications for biomolecular condensates</i><br>Rohit V. Pappu, Ph.D., Washington University St. Louis-Biomedical Engineering                                      |
| 2:15-2:45pm | <i>How RNA encodes properties of condensates</i><br>Amy S. Gladfelter, Ph.D., University of North Carolina-Biology  |
| 2:45-3:15pm | Break   |
| 3:15-3:45pm | <i>The conformational entropy of biopolymers in the dilute phase sculpts sequence-dependent phase boundaries</i><br>Ned S. Wingreen, Ph.D., Princeton University-Molecular Biology                        |
| 3:45-4:15pm | <i>Building a molecular model of Ras/Raf signaling in the control of cell proliferation</i><br>Carla Mattos, Ph.D., Northeastern University-Chemistry and Chemical Biology                                |
| 4:15-4:45pm | <i>How is phase behavior encoded in prion-like low-complexity domains?</i><br>Tanja Mittag, Ph.D., St. Jude Children's Research Hospital-Structural Biology   |
| 4:45-5:00pm | <i>Closing remarks and acknowledgements</i><br>Stephen K. Burley, M.D., D.Phil.   |

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**Questions**

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