

ASRC - City College of New York

Seminar in Biochemistry, Biophysics & Biodesign

SEMINAR LOCATION:

ASRC Main Auditorium
85 St. Nicholas Terrace

For non-CUNY attendees,
advance registration is required;
please contact Hyacinth
Camillieri at
hcamillieri@gc.cuny.edu.

THE SEMINAR WILL ALSO BE AVAILABLE VIA ZOOM:

[Click here for Zoom link](#)
Meeting ID: 966 7763 1144
Passcode: asrc-ccny

HOST:

Ranajeet Ghose
rgghose@ccny.cuny.edu

FOR MORE INFORMATION, CONTACT:

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(212) 650-8803

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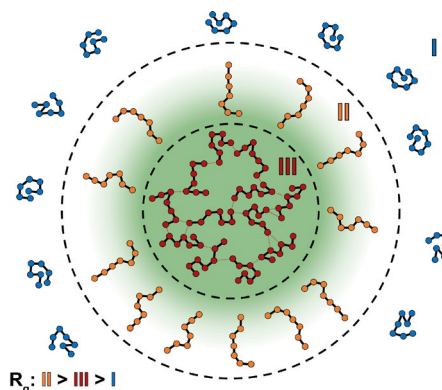
Wednesday, September 6, 2023

Coffee & tea 11:30 AM

Seminar 12:00 – 1:00 PM

Rohit Pappu

Distinguished Professor
Biomedical Engineering
McKelvey School of Engineering
Washington University in St. Louis



Emergent consequences of macromolecular phase transitions

ABSTRACT Phase transitions of associative macromolecules enable spatial and temporal organization over cellular matter. The talk will present insights regarding hidden complexities underlying evolutionarily selected physico-chemical principles that govern the driving forces for phase transitions and material properties of condensates formed by prion-like low complexity domains of proteins. The talk will also cover ground on the transferability of core physical principles to describe the assembly of cellular condensates such as nucleoli. Both aspects of the talk will stress emergent properties that result from the totality of processes that come under the rubric of condensation of macromolecules.