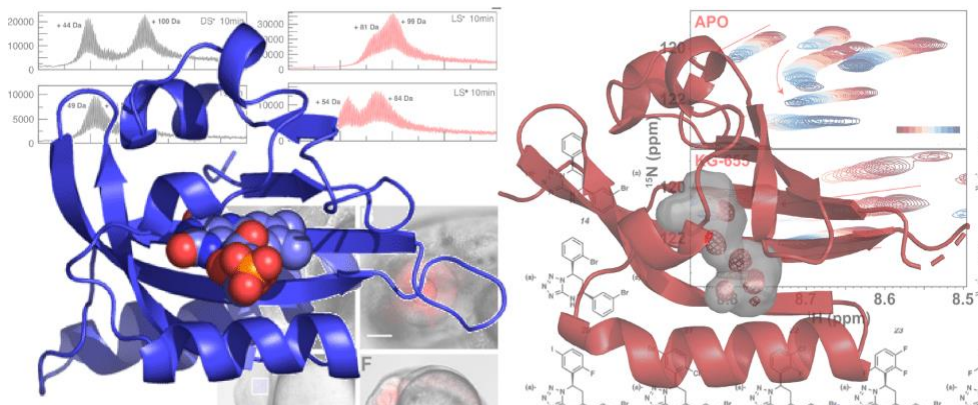


CUNY - Columbia Biophysics Symposium
Friday, June 25, 2021 / 1:00PM – 5:00 PM



AGENDA

1:00 – 1:10PM

Introduction

Symposium Host/Moderator

Kevin Gardner, Ph.D., SBI Director, ASRC and Einstein Professor

Chemistry & Biochemistry, The City College of New York

Part I

1:10 – 1:20PM

Fatum Hajredini, Ph.D. Student, Ranajeet Ghose Lab, CUNY City College

Talk title: “Repurposing an ancient fold for a new task”

1:20 – 1:25pm Q&A/Discussion

1:25 – 1:35PM

Korak Kumar Ray, Grad Student, Ruben Gonzalez Jr., Columbia University

Talk title: “Entropy - not enthalpy - drives the regulation of biomolecular machines”

1:35 – 1:40pm Q&A/Discussion

1:40 – 1:50PM

Tamar Skaist, Ph.D. Student, Daniel Keedy Lab, CUNY ASRC

Talk title: “The Effect of Temperature on Small-Molecule Fragment Binding to PTP1B”

1:50 – 1:55pm Q&A/Discussion

1:55 – 2:05PM

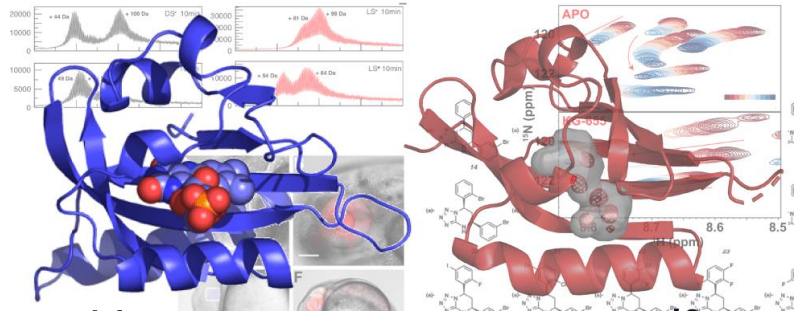
Adeyinka Lesi, Grad Student, David Rumschitzki Lab, CUNY City College

Talk title: “A Population Balance Model for Tumor Growth, Reduction and Metastasis: Insights into Dormancy and Recurrence in Cancer”

2:05 – 2:10pm Q&A/Discussion

BREAK
2:10 – 2:20PM

PART II



2:20 – 2:30PM

Inayah Entzminger, Ph.D. Student, Dixie Goss Lab, CUNY Hunter College

Talk title: “Determination of ribosomal scanning in the BYDV WT 5'-UTR”

2:30 – 2:35pm Q&A/Discussion

2:35 – 2:45PM

Pedro Gutierrez, Ph.D. Student, Liang Tong Lab, Columbia University

Talk title: “A real-time fluorescence assay for CPSF73, the nuclease for pre-mRNA 3'-end processing”

2:45 – 2:50pm Q&A/Discussion

2:50 – 3:00PM

Aaron Owji, Ph.D. Student, Wayne Hendrickson Lab, Columbia University

Talk title: “Structural and functional analysis of bestrophin-2 anion channels”

3:00 – 3:05pm Q&A/Discussion

3:05 – 3:15PM

Rie Nygaard, Postdoctoral Researcher, Filippo Mancina Lab, Columbia Medical Center

Talk title: “Structural basis of Wnt secretion by its carrier WLS”

3:15 – 3:20pm Q&A/Discussion

BREAK
3:20 – 3:30PM

PART III

3:30 – 3:40PM

Zaynab Jaber, Ph.D. Student, Kevin Gardner Lab, CUNY ASRC

Talk title: “Structural insights into a light-activated regulator of G protein signaling, bcLOV4”

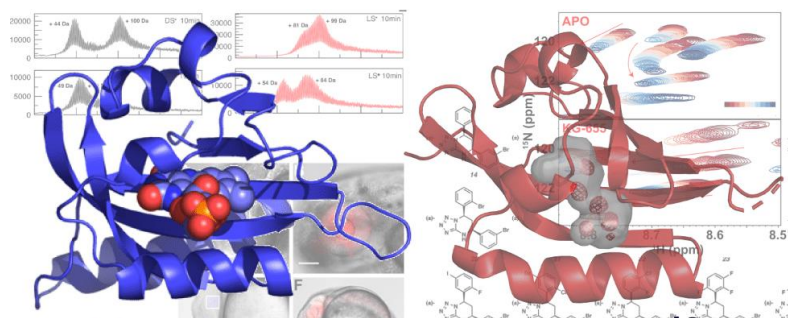
3:40 – 3:45pm Q&A/Discussion

3:45 – 3:55PM

Jeevan GC, Postdoctoral Researcher, Joachim Frank Lab, Columbia University

Talk title: “MD simulations of membrane proteins”

3:55 – 4:00pm Q&A/Discussion



4:00 – 4:10PM

Jyoti Pant, Postdoctoral Researcher, Jayne Raper Lab, CUNY Hunter College

Talk title: “Ion-channel forming properties of Apolipoproteins L1-6 protein family is governed by the key functional channel-regulating residues”

4:10 – 4:15pm Q&A/Discussion

4:15 – 4:25PM

Rosemary Cater, Postdoctoral Researcher, Filippo Mancia Lab, Columbia Medical Center

Talk title: “Structural basis of ω -3 fatty acid transport across the blood-brain barrier”

4:25 – 4:30pm Q&A/Discussion

SLAM SESSION

4:30 – 4:50PM

Krishnakoli Adhikary, Grad Student, Sebastien Poget Lab, CUNY College of Staten Island

Talk title: “Recombinant expression and purification of a gating-modifier toxin and docking of its homology model to a target sodium channel”

Blake Riley, Postdoctoral Researcher, Daniel Keedy Lab, CUNY ASRC

Talk title: “qFit 3: Protein and ligand multiconformer modeling for X-ray crystallographic and single-particle cryo-EM density maps”

Haixing Li, Postdoctoral Researcher, Ruben Gonzalez Jr. Lab, Columbia University

Talk title: “Structural Dynamics of tRNA-induced +1 Frameshifting”

Nikunj Kumar Visaveliya, Postdoctoral Researcher, Dorthe Eisele Lab, CUNY City College

Talk title: “Semi-microfluidic Synthesis of Structured Polymer Nanoparticles”

4:50 – 5:00PM

Closing Remarks by Kevin Gardner

