

## **KHORANA SCHOLARS SYMPOSIUM**

July 24, from 10:00-5:00

Biochemistry Auditorium 175

10:00–10:15 Opening remarks

### **Math and Computation**

10:15–10:30 Arpita Mandan  
*Analyzing and Predicting Protein-DNA Binding Specificity Using Structural Motifs*

10:30–10:45 Devesh Bhimsaria  
*Genomic Landscapes of DNA-Protein Interaction*

### **Food Science, Nutrition and Disease**

10:45–11:00 Sumita Kapoor  
*Characterization of Xanthine Oxidase activity in isolated milk fat globule membranes for potential application as an antimicrobial agent*

11:00–11:15 Mufaddal Saifee Soni  
*Testing cell cycle network genes for role in insulin-producing Beta Cell Proliferation*

### **Engineering and Nanotechnology**

11:30–11:45 Ankit Omar  
*DNA Origami: Rnase H assay*

11:45–12:00 Rangharajan Venkatesan  
*Calibration of Thermal Sensors in Integrated Circuits*

12:00–1:15 Lunch

### **Biochemistry, Synthetic Biology and Molecular Biology**

1:30–1:45 Neeraj Gupta  
*Expression and the Purification of the Proteins of Multi-Component Desaturase Family*

1:45–2:00 Nuzhat Ahsan  
*Ribosome-Associated Molecular Chaperones*

2:00–2:15 Vidhi Mathur  
*Understanding microRNA redulation in the C. elegans germline*

- 2:15–2:30 Sarat Chandra Cautha  
*Analysis of Thermodynamics involved in the GNRA-Receptor Interactions in RNA using ITC*
- 2:30–2:45 Taran Khanam  
*Factors Involved in the Cooperative Binding of the Hox Transcription Factors Ubx with Cofactor Exd*

**Chemistry, Chemical Biology, Chemical Engineering**

- 2:45–3:00 Unnati Gupta  
*Designing Synthetic Matrices for Stem Cell Self Renewal and Differentiation*
- 3:00–3:15 Vivek Tiwari  
*Tracking Human Islet Amyloid Polypeptide (hiAPP) Folding Dynamics Through 2D IR*
- 3:15–3:30 Ankur Menghwani  
*Constrained Based Analysis of Bacterial Metabolism*
- 3:30–5:00 Cookies, coffee and farewell to our Indian friends