



Invitation to Guest Lecture by Dr. Nitish Mittal, 11th February, 11:30 hr., 105, PoD-1D

BSBE Outreach <bsbe_seminar@iiti.ac.in>

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Dear All,

We are delighted to invite you to an insightful guest lecture by Dr. Nitish Mittal, Research Group Leader at the Biozentrum, University of Basel, Switzerland.

Lecture Details:

- ◆ **Series:** Frontiers in Biosciences and Biomedical Engineering
- ◆ **Title:** *mRNA Translation Remodeling During Aging and Cancer*
- ◆ **Date:** 11th February
- ◆ **Time:** 11:30 AM
- ◆ **Venue:** Room 105, PoD-1D

Abstract: The regulation of mRNA translation is important for development, maintaining cell homeostasis and cellular responses to environmental and physiological cues. Given its importance, dysregulation or defects in global or specific mRNA translation is linked to aging and various diseases, including cancer, neurological, metabolic disorders, and viral infection. In recent years, technical advances in measuring genome wide mRNA translation have uncovered new translation units and expanded our understanding of the translation dynamics. In this talk, we will discuss how mRNA translation is re-modelled during aging and cancer.

Speaker Biography: Nitish Mittal did his PhD from NIPER Mohali and during his PhD he got Common wealth fellowship to pursue part of his thesis work at MRC Laboratory of Molecular Biology, Cambridge UK. After finishing his PhD, he moved to Biozentrum, University of Basel, Switzerland, where he continues his work on aging using multiomics approaches. Currently, he is working as senior scientist in Biozentrum and has recently opened a startup 80sBio GmbH. In the company, they are developing nucleic acid detection-based research kits and real point of care diagnostic kits. He is CSO (Chief Scientific Officer) in the company. In his talk, he will summarize his work on translation remodelling in aging and cancer. Additionally, he will also brief his start-up.

We look forward to your participation in this interesting lecture.

Best regards

Dr. Sivaraj Mohana Sundaram

Seminar Committee

Department of Biosciences and Biomedical Engineering

Indian Institute of Technology Indore