

## **Seminar**

### **Spatiotemporal regulation of metabolism in cellular health and disease**

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The canonical roles of cellular metabolism are to generate energy, maintain redox balance and provide building blocks to generate biomass. However, metabolites such as acetyl-coA, S-adenosylmethionine, NAD<sup>+</sup> are also substrates for epigenetic enzymes and their modulation impacts cellular deterministic processes such as proliferation and differentiation. In this talk, I will briefly summarize my findings on glycolytic regulation of mouse presomitic mesoderm development and how lipid signaling from the stroma supports tumour growth in pancreatic ductal adenocarcinoma. I will then discuss my future research directions where I aim to combine disciplines of cell biology and genetics with analytical chemistry and imaging to address spatiotemporal regulation of metabolism in cellular differentiation and transformation.

***Tuesday, Jul 17<sup>th</sup> 2018***

***4:00 PM (Tea/Coffee at 3:30 PM)***

***Seminar Hall, TIFR-H***