



**TIFR Centre for Interdisciplinary Sciences,  
Narsingi, Hyderabad 500075**

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## **Seminar**

**Single cell measurements of DNA damage responses, from yeast to mice, with High Content and High Resolution Imaging**

**Aprotim Mazumder**

**Department of Biological Engineering, MIT**

Single-cell level imaging of transcripts or proteins can provide unprecedented insight into the heterogeneity of cellular responses to stresses, beyond just the mean changes obtained in bulk biochemistry. I will demonstrate this in two studies in budding yeast (a genomewide screen for response to genotoxic stress and a specific investigation into an enzyme essential for DNA repair), and also describe some new work on the more challenging context of primary tissue from mice.

***Wednesday, Mar 12<sup>th</sup> 2014***

***11:30 AM (Tea/Coffee at 11:15 AM)***

***Seminar Hall, TCIS***