



**REGIONAL CENTRE FOR BIOTECHNOLOGY**  
**Eukaryotic Model Organisms Workshop Seminar**

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**Genetic landscape of the unfolded protein response  
of endoplasmic reticulum**

**Kausik Chakraborty, PhD**  
IGIB, Delhi

Friday, October 12, 2012  
4:00 pm  
Seminar Room

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# REGIONAL CENTRE FOR BIOTECHNOLOGY

## Workshop Seminar

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# Kausik Chakraborty, PhD

## Abstract

Unfolded protein response (UPR) of Endoplasmic Reticulum (ER), UPRER, maintains ER homeostasis and is implicated in multiple disorders. Unravelling the endogenous pathways that control UPRER will allow us to understand the control points that alter an organisms capability to respond to stress. This is required not only to find avenues to control UPRER in disease states but also to appreciate the genetic basis of ER stress. We have completed a comprehensive genetic screen in *Sachharomyces cerevisiae* using synthetic genetic array to identify genes that modulate the amplitude of UPRER. The integration of pathways that shape the final outcome of UPR and their evolutionary conservation will be discussed.

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