



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

Seminar

**Cytoskeleton in "Prokaryotes": Assembly, Dynamics &
Diversity**

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Abstract: While the eukaryotic cytoskeleton is highly conserved, the bacterial homologs exhibit a wide range of diversity. We have established fission yeast, *Schizosaccharomyces pombe* as a cellular model to understand form and dynamic nature of the prokaryotic cytoskeleton. We have expressed all known families of the prokaryotic cytoskeletal proteins and show that they form a variety of polymer morphologies and display interesting behaviours. Our studies provide new insights into the mechanism by which bacterial cytoskeleton assemble and organize. Future studies will expand our knowledge base of the physical properties, their relation to function and evolution of these diverse prokaryotic cytoskeletal proteins.

Date: Friday, February 22nd 2013

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

Venue: Conference Hall, TCIS

All are cordially invited