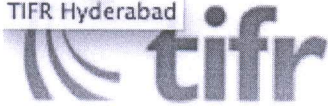
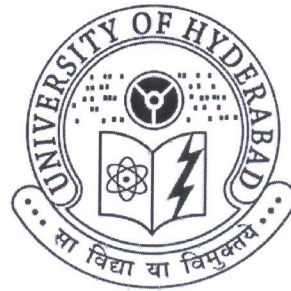


TIFR Hyderabad



TIFR Centre for  
Interdisciplinary  
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## TIRF-UOH Seminar series in Life Sciences

**Date: 3/1/2018**

**Time: 4.00PM (Tea outside seminar hall at 3.30PM)**

**Venue: Seminar Hall**


**School of Life Sciences**

**Speaker: Dr. Tamal Das, TCIS**

### **Mechanobiology of Collective Cell Dynamics: Migration and Competition**

Collective cell dynamics refers to the process of many cells behaving as a cohesive group, where each individual cell correlates its dynamics with that of its neighbors. We are specifically interested in understanding two instances of collective dynamics, namely collective cell migration and cell competition, from the perspective of intra- and intercellular mechanical forces. To this end, we are investigating how cellular forces influence different biochemical signaling pathways to regulate the collective cell migration of epithelial cells as well as the selective emergence of leader cells at the migration front. In addition, we are also elucidating how a force-differential at the interface between wild-type and mutant populations, can lead to the extrusion and removal of one population from the system. Taken together, our results are revealing various novel mechanistic aspects of collective cellular dynamics, pertaining to wound healing and cancer.

**All are invited**

  
Deen, School of Life Science  
University of Hyderabad  
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**Dean, School of Life Sciences**