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

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While the eukaryotic cytoskeleton is highly conserved, the bacterial homologs exhibit a wide range of diversity.  We have previously established fission yeast, Schizosaccharomyces pombe as a cellular model to understand form and dynamic nature of the prokaryotic cytoskeleton. We had earlier shown that the cell division protein FtsZ self-organizes into ring-like structures.  These ring-like structures seemed to be formed by a process of spooling of pre-formed linear filaments.  New insights gained into the mechanism of organization of FtsZ rings and arrangement of filaments will be discussed. Further, we discovered novel dynamic behaviors and unique filament architectures in a subset of actin-like proteins. These studies provide new insights into the mechanisms by which bacterial cytoskeletal proteins organize and function.