

Small GTPases, their regulators and effectors

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In this session on the small GTPases, their regulators and effectors we will take an evolutionary perspective in an attempt to review recent progress of functional analysis of small GTPases functions in cell morphogenesis. We will compare advanced knowledge in animals and fungi with the analysis in plants and other "Bicont" organisms. It is obvious that small GTPases are intimately involved in the evolution of eukaryotic cell, esp. endomembrane system. One proximal goal of the meeting will be the discussion on the GTPases, regulators and effectors equipment of LECA and their later diversification in eukaryotic phyla. In the focus of the meeting will be Rab, Rho and Arf GTPases, proteins involved in their post-translational modification and functional cycle as well as their effectors – both in the secretory pathway, cytoskeletal dynamics and signalling.

Invited Speakers include: **Suzanne Pfeffer**, Stanford University
Wei Guo, University of Pennsylvania, **Marino Zerial**, MPI Dresden