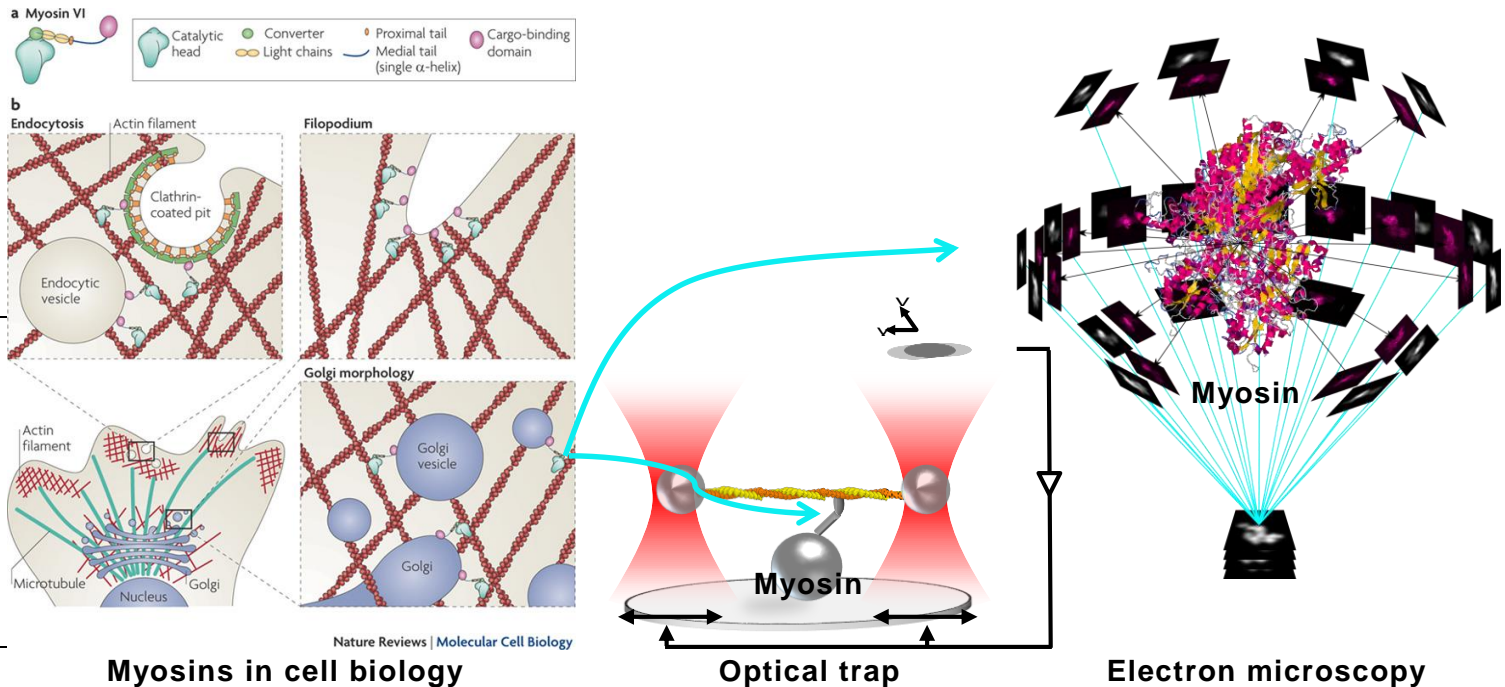


Origins of pattern formation in cell biology:

high resolution structural and mechanical studies on myosin motor proteins



The **Department of Cellular Physiology** in cooperation with the **SFB 863: Forces in Biomolecular Systems** (Technical University and Ludwig Maximilians University Munich) invites applications for

2 PhD Studentships, 2 Masters projects

for students with an interest in interdisciplinary **research in molecular biophysics**. The emphasis of the projects is on

- (i) **single-molecule microscopy**
- (ii) **electron microscopy** and **image processing methods** and
- (iii) **super-resolution microscopy**

to investigate collective effects (pattern formation by myosin motors) in **collaboration** with the LMU Department of **Theoretical Physics (Prof. Erwin Frey)**.

Our group is interested in the *role of motor proteins in membrane trafficking and other forms of cell motility, structure and pattern formation*. We use a variety of approaches ranging from molecular biology, biochemistry and cell biology to high-end biophysical techniques.

The SFB 863: Forces in Biomolecular Systems in Munich brings together internationally leading research groups in the area of single-molecule biophysics and modelling. Our Department has recently moved to the *Biomedical Research Centre BMC* of the LMU Munich in Martinsried; the Department of Cellular Physiology is a member of the *Centre for Nano-Sciences Munich (CeNS)*.

Candidates should have a background in *physics, biophysics, chemistry, biochemistry or biology* (Masters, Bachelor) and basic biophysical laboratory skills.

Interested? Do contact us: Prof. Dr. Claudia Veigel, Lehrstuhl Zelluläre Physiologie, LMU München, Biomedizinisches Zentrum, Großhaderner Str. 9, 82152 Planegg-Martinsried Germany.

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