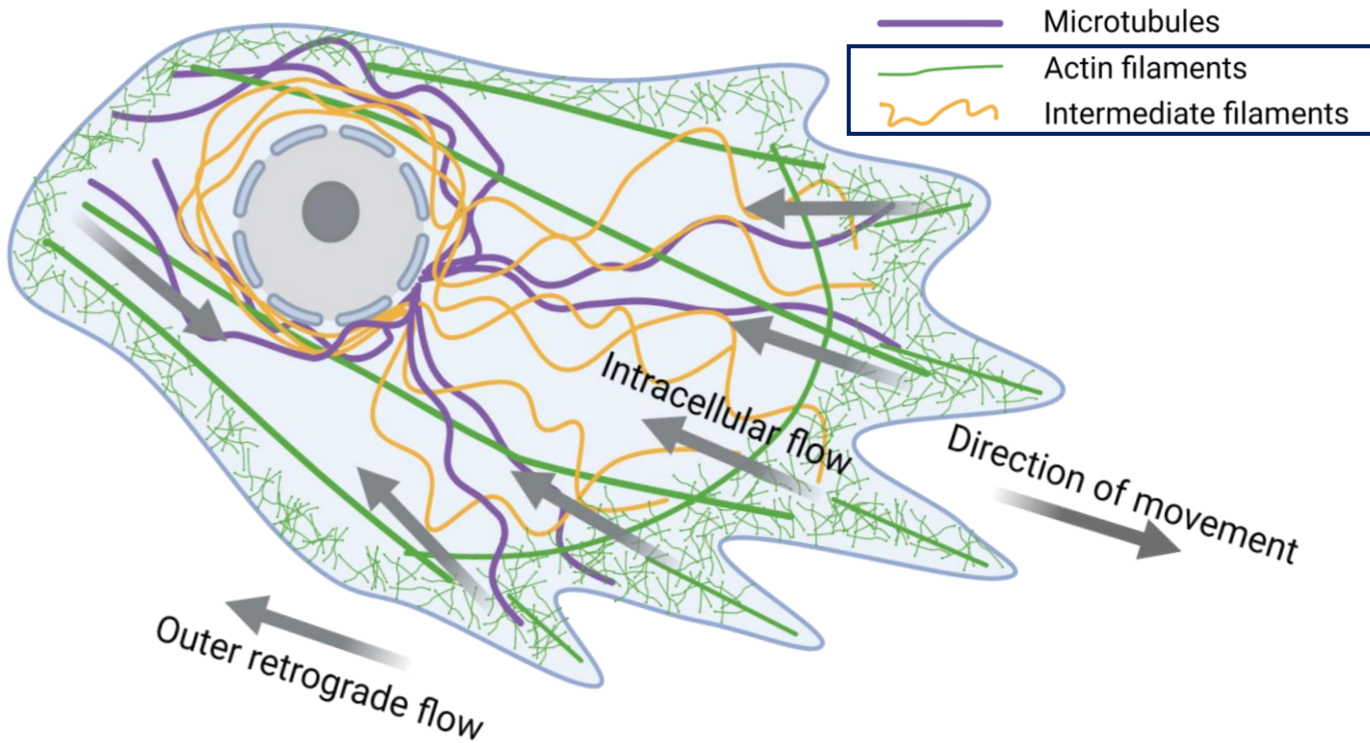


Research question:

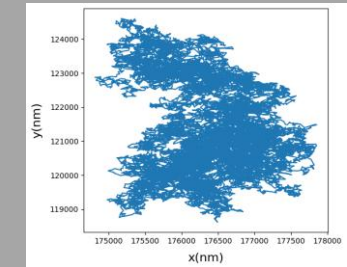
How does self-propulsion depend on architecture and active force generation of a geometrically confined actomyosin network?

- In-vitro studies on actin networks modified by actin-binding proteins in bulk and confinement
- In-vitro studies on mixed networks consisting of actin and intermediate filaments (future perspective)

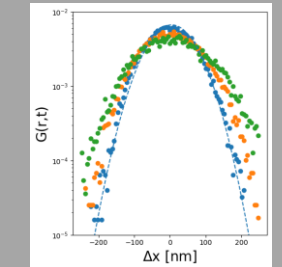


Passive Microrheology

Viscoelasticity and activity



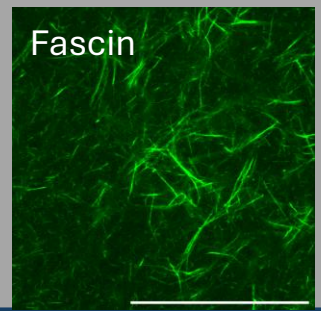
Bead trajectory



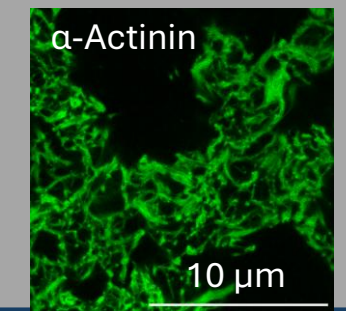
Non-Gaussianity

Imaging; passive and active Microrheology

Influence of actin-binding proteins



Fascin



α-Actinin

10 μm

Particle image velocimetry (PIV)

Confinement and emerging flow

