

Hair cells and Biomimetic molecular systems @ PCC



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EnLife research axes:

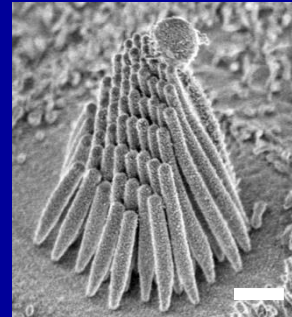
- Axis 1: Controlling and programming biological living matter.
- Axis 2: Emergence of spatial and temporal organization in living matter.
- Axis 3: Information processing and dynamics of biological active matter.

Team expertise:

- Micromanipulation (pN forces, nm movements)
- Cell mechanics
- Protein micropatterning
- Actin-filament polymerization / motor proteins
- Image analysis
- Theoretical modeling (collaborations)

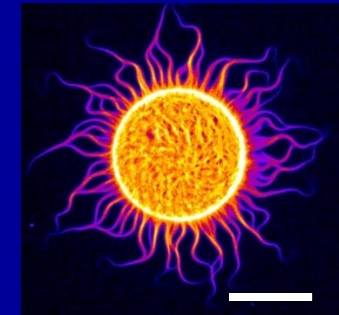
Topics of interest:

HAIR CELLS



- Mechanosensitivity, bioelectricity
- Frequency selectivity
- Mechanical amplification
- Entropy production

SELF-ORGANIZATION



- Motility and chirality at mesoscales
- Motor coordination ↔ bending waves
- External vs. internal friction
- Synchronization phenomena