

Theoretical Biophysics and Neuroscience @ LPENS



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Our team is related to

→ 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.

Axis 4: Driving evolution within living systems.

Team expertise:

- Theory and modeling
- Development, neural learning and coding, biomechanics of membrane and tissues, morphogenesis, mechanics, gene networks, cancer, collective animal behavior.
- active matter and out-of-equilibrium physics, cellular motility, statistical inference, complex systems

Question of Interest and/or Collaboration wanted:

- Experimentalists on active matter, cellular motility, collective behavior
- Cellular differentiation/morphogenesis
- Gene regulation, gene networks, epigenetics
- Cancer