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Axis 2: Emergence of spatial and temporal organization in living matter.

Axis 4: Driving evolution within living systems.

Expertise:

Eco-evolutionary dynamics of collective behaviour

1. Microbial community ecology: statistical descriptions and models of large systems of interacting species
2. Evolution of under artificial selection: nested models for community evolution
3. Evolutionary emergence of multicellular life cycles

Question of Interest and/or Collaboration wanted:

What is the constructive role of cell heterogeneity in the early emergence of collective function?

Looking for an experimental system adapted to the study of the dynamics of heterogeneous cell populations on the ecological and evolutionary time scales.

Offering theoretical insight in eco-evo models.