

Mechanics and Genetics of Embryonic and Tumour Development



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Indicate in which axis your team relates to:

Axis 1: Controlling and programming biological living matter.

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

Axis 4: Driving evolution within living systems.

Team expertise

Mechanotransduction *in vivo* in:

Developmental Biology

Cancer Progression

Colon Stem Cells Production

Evolutionary Emergence of First Metazoa

Question of Interest and/or Collaboration wanted

The Mechanics and Genetics of Embryonic and Tumour Development team studies the role of mechanical strain and deformation of macroscopic biological structures at the cell or multi-cellular scale, into the regulation and the generation of active biochemical processes at the microscopic molecular scale, including gene expression, *in vivo*. The group found the mechanical control of cell differentiation, and focuses on the coupling between mechanical strains and biochemical signalling in developmental, cancer and evolution biology.