

Molecular Mechanisms of Chromosome Dynamics

Team leader: Daniele Fachinetti

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Josée Guirouilh-Barbat



The axis our team relates 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.

Team expertise:

- Centromere formation and functions
- Centromere aberration and genome instability
- Centromere crisis, aneuploidy and ageing

Question of Interest and/or Collaboration wanted:

- What defines the accurate separation of genetic material?
- spatial organization of centromeres in the nucleus? Impact on the occurrence of Whole Arm Chromosomal translocations (WACT)? Does that depend on the cell cycle phase
- What regulates the dynamics of centromere this very specific structure? ?