

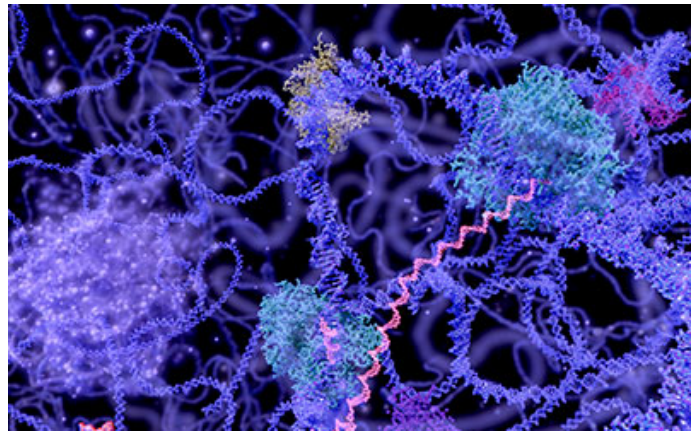
Dipartimento di Biotecnologie e Bioscienze – UNIMIB

Thursday, October 19, 2023, 4:30 p.m., Tellus building (ex U4), room U4-03 / Webex

Nanodynamo quantifies the dynamics of RNA metabolism and unravels extensive coupling between steps of the RNA life cycle

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Abstract: The coordinated action of transcriptional and post-transcriptional machineries shapes gene expression programs. We developed Nanodynamo, an experimental and computational workflow for quantifying the kinetic rates of nuclear and cytoplasmatic steps of the RNA life cycle. We revealed pervasive post-transcriptional RNA processing. We unraveled coupling between transcriptional, processing, export, decay and translational machineries, which largely contribute to coordinating how cells respond to perturbations that impact gene expression programs.

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