

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

giovedì 10 novembre, 2022, ore 16:30, edificio U4 - TELLUS, aula U4-01 / Webex

Multiscale analysis of the Arp2/3 complex and mDia formins: from basic biology to cancer and back

Metello Innocenti

Heidelberg University Biochemistry Center (BZH)

Abstract: Mammalian cells sense and react to external signals by changing shape, behaviour, and even fate. These adaptive responses heavily rely on the actin cytoskeleton and go frequently awry in cancer and other human diseases. We study two druggable and ubiquitously expressed actin-assembly machineries, Arp2/3 complex and mDia formins, which regulate the formation of specialized protrusions and invaginations on the plasma membrane. I will present work from my lab that has contributed to elucidating how actin controls cell migration, clathrin-mediated endocytosis, and signalling in normal cells, and how dysregulation of actin dynamics impacts on homeostasis and carcinogenesis in epithelial tissues.

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