

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

Thursday, May 23, 2024, 4:30 p.m., U4-TELLUS building, room U4-01

Genetic and acquired heterotopic ossification: a tale of bone and blood

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Abstract: Fibrodysplasia Ossificans Progressiva (FOP) is a rare congenital disorder causing abnormal bone growth in muscles due to a gene mutation (R206H) in *Acvr1*, activating bone morphogenetic proteins and activin A pathways. Inflammatory flare-ups trigger this process. Macrophages' role in affected tissues is unclear. Using mouse models, we simulated acquired and genetic HO, investigating the innate immune system's role in bone formation. Single-cell transcriptomics and imaging suggest early collaboration between macrophages and mesenchymal cells, fostering bone formation.

Host: **Antonella Ronchi**

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