

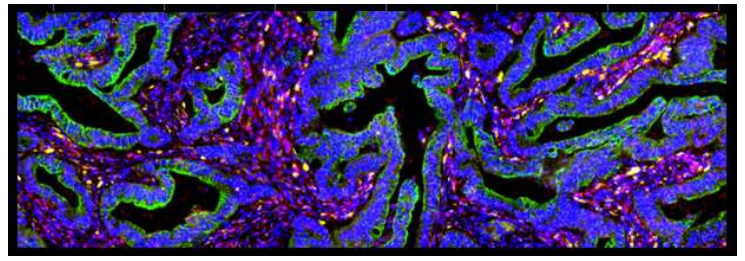
## Dipartimento di Biotecnologie e Bioscienze – UNIMIB

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

# Unconventional T cells in gut homeostasis and disease

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**Abstract:** Unconventional T cells, including invariant natural killer T (iNKT) cells, constitute a relevant fraction of effector T-cells at mucosal sites and are pivotal in mucosal homeostasis and tumor immune surveillance. Tissue-specific signals, including those from the microbiota, determine whether unconventional T cells respond in a homeostatic or pathogenic manner. Here, we summarise the contribution of iNKT cells to colorectal cancer (CRC) pathophysiology in patients with a previous history of IBD. To this aim, high-dimensional single-cell flow cytometry, metagenomics, spatial transcriptomics, and in-vitro experiments has been performed to evaluate the phenotype and function of human iNKT cells.

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