



UNIVERSITÀ
DI TRENTO

Dipartimento di
Biologia Cellulare, Computazionale e Integrata - CIBIO

18 DECEMBER

2:30 P.M.

ROOM A110 - POVO 1

RAFFAELE CALOGERO

DEPT OF MOLECULAR BIOTECHNOLOGY AND HEALTH SCIENCES, UNIVERSITY OF TORINO



- ● A MULTI-OMICS, MULTI-MODAL DATASET FOR
- ● VALIDATING CELL-TO-CELL COMMUNICATION
- ● (CCC) BIOINFORMATICS TOOLS

Cell-cell communication (CCC) is a fundamental mechanism regulating biological processes in multicellular systems under both normal and pathological conditions. The growing number of computational tools inferring CCC from transcriptomic data highlights the need for **robust benchmark resources** enabling objective evaluation. Yet, the absence of experimentally validated, multi-modal datasets reflecting the molecular complexity of intercellular signaling has limited systematic comparison and performance assessment of CCC algorithms. To address this gap, we generated **a comprehensive multi-omics dataset tailored for performance assessment of CCC bioinformatics tools**. As proof of concept we will show some results on **CellChat v2 predictions**.