

# DISIT Seminar Series

2026



Tuesday 10<sup>th</sup>  
FEBRUARY



14.30 - 15.30



Room 203



## *Dataset Upcycling: Decoding Functional Biological States Through Large-Scale Transcriptomic Integration*

[Dr. Aurora Savino](#)

University of Turin



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# *Dataset Upcycling: Decoding Functional Biological States Through Large-Scale Transcriptomic Integration*

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High-dimensional transcriptomic datasets capture how cellular regulatory networks shift across stimuli, perturbations, and physiological states. When large public resources are systematically harmonized and integrated, they enable the derivation of functional signatures that summarize recurrent transcriptional programs. Comparing new bulk, single-cell, or spatial profiles to these signatures supports scalable functional annotation, helping to contextualize cellular responses and to highlight potential drug or intervention opportunities. This framework provides a coherent way to relate diverse biological states across contexts such as cancer, aging, stress responses, and brain plasticity.

