

## Nicola Tommasi

Department of Biotechnology and Biosciences,  
University of Milano-Bicocca



# Functional Biodiversity in the Anthropocene: Insights from Pollinator Research

Biodiversity provides essential benefits for human wellbeing, such as insect-mediated pollination, which supports ecosystem functioning and food security. Yet, global biodiversity is rapidly declining due to human-driven environmental changes, with pollinators following this trend. Within this framework, my research goes beyond species loss to explore how landscape anthropization impacts functional biodiversity, particularly pollinators, at ecological, physiological, and molecular levels. Through a multidisciplinary approach involving DNA-based identification, morphometrics, and multi-omics tools (mRNA/WGS and LC-MS), I aim to evaluate these human-mediated impacts and develop novel biomarkers to assess biodiversity health and guide effective conservation strategies. This integrative approach helps redefine how we study and protect biodiversity in the Anthropocene.



**Thursday**  
**5 June, 025**



**4.30 pm**  
**to 5.30 pm**

**U3-BIOS building**  
**room U3-04**



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