UNIVERSITÀ DI TRENTO
Dipartimento di Biologia Cellulare, Computazionale e Integrata - CIBIO

EXTERNAL SEMINAR

FRIDAY, 04 DECEMBER 2026

FROM **11.30 AM**
ROOM **A110**
POVO 1



Tomasz Zok

POLITECHNIKA POZNAŃSKA

EXPLORING MULTIPLE LOOP MOTIFS IN RNA STRUCTURES

Multiloop motifs are key RNA structural elements that influence folding and function, yet remain underrepresented in structural databases, limiting RNA 3D structure prediction.
This project combines automated data curation, machine learning and structural annotation to identify and classify RNA multiloops and their coaxial stacking arrangements. It will generate thousands of predicted 3D models from the Rfam database, making them publicly available with structural metadata. Finally, the models will be integrated into RNAComposer to assess their impact on prediction accuracy, improving RNA structure modeling and our understanding of RNA folding.

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