



UNIVERSITÀ  
DI TRENTO

Dipartimento di  
Biologia Cellulare,  
Computazionale e Integrata - CIBIO



EXTERNAL  
SEMINAR



**THURSDAY,  
05 NOVEMBER  
2026**

FROM **11.30 AM**  
ROOM **B108**  
POVO 1

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## THE EMERGENCE OF HEREDITY AT THE ORIGIN OF LIFE

The origin of life requires a chemical mechanism for RNA replication prior to the emergence of evolved enzymes. This talk presents experimental results demonstrating how random-sequence RNA templates can be copied through nonenzymatic processes. Using prebiotically plausible nucleotide activation chemistry, heterogeneous reactant mixtures, and a custom next-generation sequencing pipeline, the study analyzes mutations and sequence preferences during prebiotic RNA copying.



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