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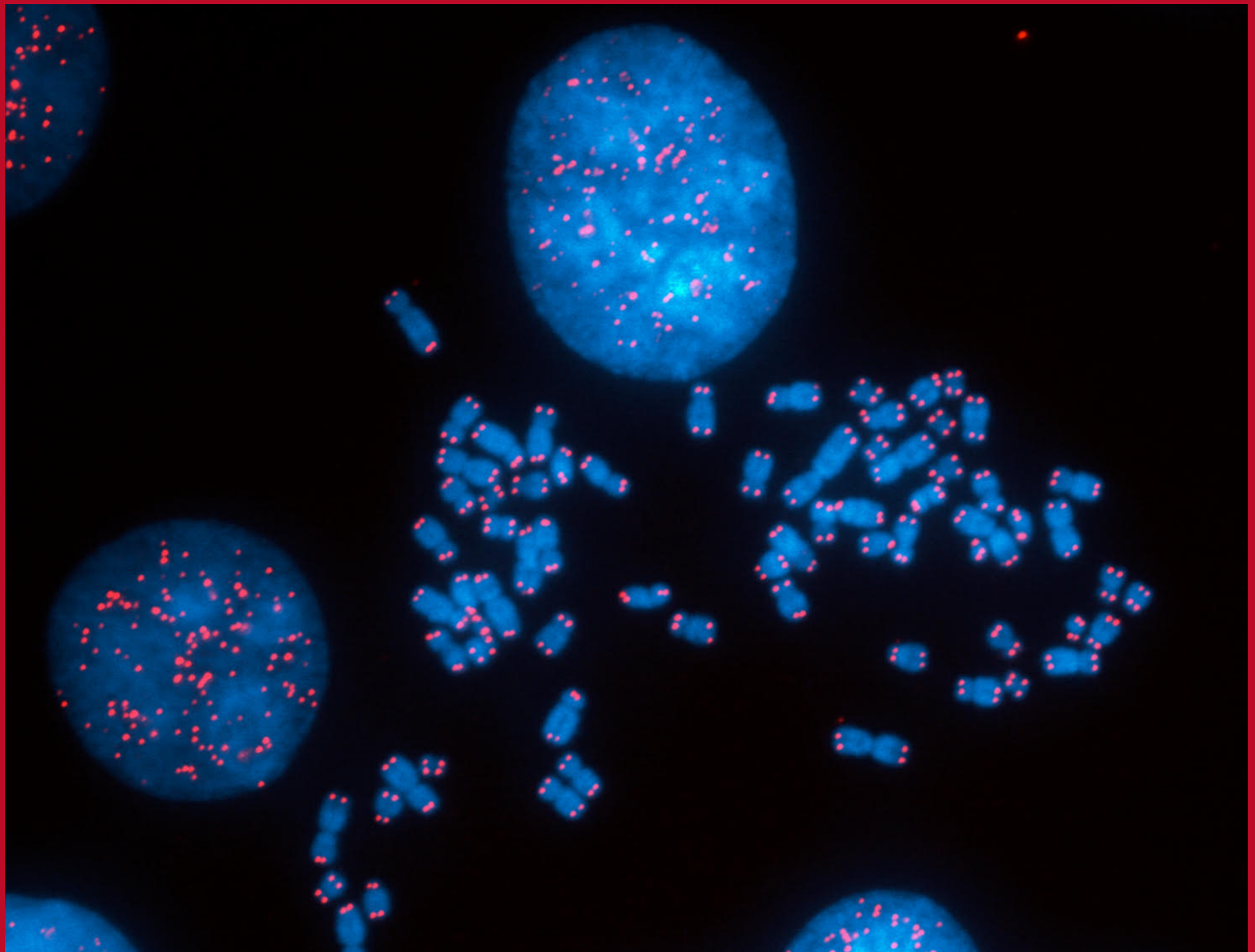
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# **TELOMERE TRANSCRIPTION AND SHELTERIN INTERACTIONS AT HUMAN TELOMERES**

**DR. CLAUDIA MARIA  
AZZALIN**

INVITED ASSOCIATE PROFESSOR AT  
THE FACULTY OF MEDICINE OF THE  
UNIVERSITY OF LISBON  
(LISBON, PORTUGAL).

GROUP LEADER AT INSTITUTO DE  
MEDICINA MOLECULAR JOÃO LOBO  
ANTUNES (IMM)  
(LISBON, PORTUGAL).



Eukaryotic telomeres are transcribed by **RNA polymerase II** into the long noncoding **RNA TERRA**. It is widely accepted that telomere transcription and TERRA support crucial cellular functions, including telomerase-mediated and ALT-mediated telomere elongation. However, the molecular details of how TERRA participates in telomere homeostasis maintenance still need to be fully elucidated. I will present an **overview of TERRA regulation and functions in human cells**. Moreover, I will share unpublished work from my lab revealing a new regulatory circuit based on the **physical interactions between TERRA transcripts and telomere-associated proteins including TRF1 and TRF2**.



DEPARTMENT OF CELLULAR, COMPUTATIONAL  
AND INTEGRATIVE BIOLOGY - CIBIO  
VIA SOMMARIVE, 9  
38123 - POVO (TN)  
COMUNICAZIONE.CIBIO@UNITN.IT



**UNIVERSITÀ  
DI TRENTO**

Department of  
Cellular, Computational and Integrative Biology - CIBIO