

## SEMINAR NOTICE



December 2, 2024



14:00

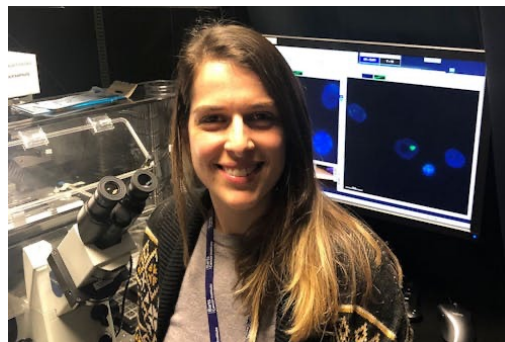


Room 101 (RM 112-E01P01L005) –  
1° Floor, Building D - Viale Regina Elena 295a

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### Dr. Giulia Guiducci

Barts Cancer Institute - Cancer Research UK Centre of Excellence  
Queen Mary University of London (UK)



## The role of (lnc)RNA-protein interactions at the interface of chromatin and cancer biology

Over the past two decades RNA molecules have emerged as active regulators across a variety of biological processes. Among them, the class of long non-coding RNAs (lncRNAs) is under the spotlight for their contribution to several cancer hallmarks.

I will introduce a newly identified chromatin-enriched lncRNA, which we named Chromosome Segregation Regulating noncoding RNA (CHERR). CHERR is a cancer-relevant lncRNA, and its depletion in lung cancer cells leads to the non-genetic loss of a known tumor suppressor, ARID2, a key subunit of the SWI/SNF chromatin remodelling complex. Our findings indicate that CHERR binds to the SWI/SNF subunits, potentially promoting the stability of the complex. In line with this, loss of CHERR disrupts ARID2 association with chromatin.

Additionally, I'll present our ongoing efforts to dissect RNA-protein interactions across cell cycle stages and I'll introduce TREX, an RNA-centric method to map endogenous RNA-protein interactions with region resolution.



Informazioni: Prof. Francesca Cutruzzolà



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