Consiglio Nazionale delle Ricerche



UNIVERSITÀ DI PAVIA Dipartimento di Biologia e Biotecnologie "Lazzaro Spallanzani"

Engineering focal oncogene amplifications, insights into the contributions of extrachromosomal DNA (ecDNA) to tumorigenesis.

> Davide Pradella, PhD Andrea Ventura Lab Cancer Biology and Genetics Program Memorial Sloan Kettering Cancer Center

## About the speaker

**Davide Pradella** is a Research Associate at Memorial Sloan Kettering Cancer Center in Andrea Ventura<sup>®</sup>s lab. His research interests are focused on a better understanding of extrachromosomal DNA (ecDNA) biology in



cancer and its role in shaping tumor heterogeneity and evolution. He recently described an innovative strategy combining the advantages of CRISPR/Cas9 technology and Cre-mediated recombination to engineer and track large focal amplifications mediated by ecDNAs observed in cancer patients (Pradella et al., *Nature* 2025). This novel approach will be valuable in investigating unresolved aspects of ecDNA biology and developing new preclinical immunocompetent mouse models of human cancers harboring specific focal gene amplifications. Wednesday May 28<sup>th</sup> 2025 Time: 14:30 Aula Falaschi IGM-CNR



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