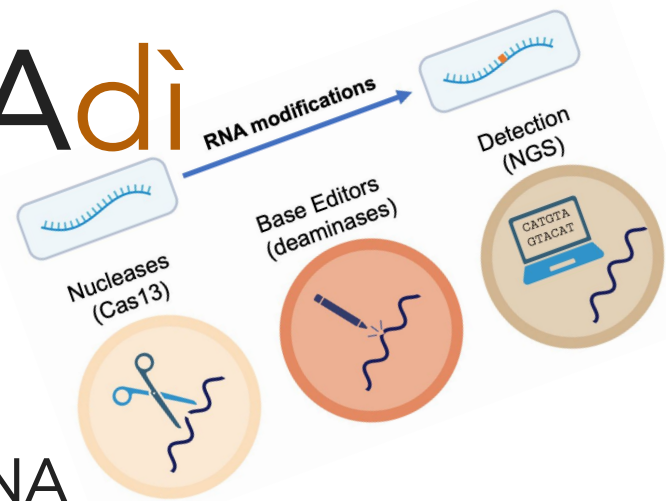




MUR PNRR National Center for Gene Therapy and Drugs based on RNA Technology

Spoke 6: RNA drug development

veRNA^{di}



A webinar series about RNA

to share projects and competences,
increase networking, discuss issues
and new ideas, and disseminate results



<https://rb.gy/y40y6>

12th veRNA^{di}: Friday 31 January 2025, 15:00

Harnessing the Power of RNA Targeting: From Diagnostic Tools to Cancer Immunotherapy

Riccardo Pecori

Division of Immune Diversity, German Cancer Research Center (DKFZ)

RNA targeting technologies hold the potential to revolutionize the biomedical landscape, offering innovative opportunities for how we diagnose and treat diseases. In this talk, I will introduce RNA targeting technologies and demonstrate how they serve as a versatile platform for various biomedical applications, from diagnostic to cancer immunotherapy. These technologies enable precise detection and manipulation of RNA at the single-nucleotide level, underscoring their precision and potential. To showcase their power, I will illustrate two projects: the first focuses on developing a novel CRISPR-based diagnostic method for sensitive RNA molecule detection, while the second explores how we can leverage short guide RNAs (gRNAs) to recruit endogenous enzymes and direct RNA deamination towards functional outcomes in cancer immunotherapy.