



## INTERACTION WINS 24 Final Report

The Innovative Therapeutic Targets In Non-Canonical Nucleic Acid Structures Winter International School, better known as **Interaction Wins 2024**, is an event sponsored by IS3NA, the University of Padua (Italy) and the University of Pavia (Italy), which took place from 20 to 23 February 2024 in virtual mode. The school was attended by 95 students, including PhD students and postdocs. In addition, 18 teachers participated and engaged the students with 16 lectures and 2 workshops. The countries involved were Italy, Germany, Denmark, Spain, Portugal, United Kingdom, Sweden, Finland, Belgium, France, Czech Republic, Hungary, Russia, India, United States, Canada and Argentina, demonstrating the global reach of the event.

Despite the virtual nature of the event, the exchanges between teachers and students, and among the students themselves, were continuous and stimulating throughout the event and especially during the two programmed social events, one of which was exclusively for students, and the second of which consisted of a round table between students and teachers. The sections of the School dedicated to student presentations, both oral and poster, were of really high quality and highlighted the interdisciplinary nature of the School. Indeed, the event allowed us to explore and deepen many aspects of the world of non-canonical nucleic acid structures:

- synthesis of new molecules for innovative targeting;
- use of non-canonical structures as innovative tools to create new therapies and new delivery systems;
- genome-wide mapping of non-canonical structures in different contexts (cancer, viral infections, bacteria, parasites);
- identification of protein partners of the non-canonical structures and consequent characterization of new regulatory mechanisms;
- optimization of new techniques for the in-vitro and in-cell analysis of the structures of interest, including spectroscopy, mass spectrometry, fluorescence systems and more.

Overall, the event received positive feedback from both the students and the speakers involved, who agreed to participate in future editions, confirming that the school has become a reference event in the field and can be considered a source of pride for IS3NA.

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