

Characteristics of Nanobody Libraries

Tuesday 23 September 2025 09:00 (1h 30m)

This introductory session provides a foundational overview of nanobody (VHH) libraries and their role in binder discovery. Participants will learn the key differences between immune libraries (from antigen-immunized animals), naïve or pre-immune libraries (from non-immunized sources), and synthetic libraries (constructed through targeted sequence design and CDR randomization).

The session explores how library diversity is generated—through methods such as PCR amplification of VHH genes or synthetic variation—and how it influences library quality and downstream success. Common library sizes are discussed, as well as how different display platforms (e.g. phage, yeast, ribosome) are used to present libraries to antigens, with an emphasis on phage display.

Primary author: Prof. DE MARCO, Ario (University of Nova Gorica, Slovenia)

Presenter: Prof. DE MARCO, Ario (University of Nova Gorica, Slovenia)