

Workshop Practical: Nanobody Panning Against a Target Antigen

Wednesday 24 September 2025 09:00 (1h 30m)

In the practical part of the workshop, participants will gain hands-on experience with phage display-based nanobody panning. Working in small groups, they will perform a selection round using a nanobody (VHH) library and a chosen model antigen immobilized on a solid surface. The goal is to enrich for nanobody clones that specifically bind the target.

The workflow includes incubation of the library with the antigen, washing to remove non-binders, elution of bound phages, and infection of *E. coli* for amplification. If time allows, participants will also explore panning on live cells to simulate more complex and physiologically relevant selection environments.

Takeaway: Participants will understand and carry out the core steps of a nanobody selection campaign, gaining insight into the practical considerations and challenges of identifying specific binders from a large pre-immune or synthetic library.

Track Classification: Experimental Panning