



International Alliance for  
Biological Standardization

## **Animal Testing Replacement for Vaccines. A One Health View: Global Outlook and Future Strategy**

**December 2-4, 2025  
Bangkok, Thailand**

### **How to build competence in new testing strategies in National Control Laboratories? - A WHO perspective**

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This presentation outlines the key initiatives and activities undertaken by the WHO Market Surveillance and Control (MSC) team to answer a central question: How can National Control Laboratories build competence in new testing strategies that replace or reduce animal use? It highlights how WHO leverages the strengths of the WHO National Control Laboratory Network for Biologicals (WHO-NNB), its members, and its established mechanisms for technical exchange to accelerate the adoption of modern, non-animal testing approaches.

The session will describe how annual WHO-NNB meetings facilitate alignment by showcasing validated alternative methods, sharing implementation experiences, and stimulating collaboration between laboratories. Special attention will be given to recent presentations on the Monocyte Activation Test, recombinant Factor C assays, and emerging in vitro methods for toxoid vaccines, which illustrate the scientific and regulatory evolution currently underway.

The presentation will also outline capacity-building measures led by the MSC team, including twinning initiatives, use of the WHO-NNB information-sharing platform, development of standardized training materials, and the broadcasting of tutorial videos. Finally, it will describe efforts to expand partnerships with training centres, notably the WHO Academy and emerging WHO Regional Training Centres, to develop hands-on laboratory training programmes that support practical learning and method transition.

