



International Alliance for  
Biological Standardization

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

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### **Advancing 3Rs in Quality Control of Immunobiologicals: Butantan's Strategy for Implementing MAT and Recombinant Endotoxin Testing Juliana GALVÃO DA SILVA, Fundação Butantan, Brazil**

This presentation details the strategic roadmap of the Butantan regarding the implementation of alternative methods for quality control in immunobiologicals. Aligned with the 3Rs principle (Replacement, Reduction, and Refinement), the strategy focuses on transitioning from the in vivo Rabbit Pyrogen Test (RPT) to the in vitro Monocyte Activation Test (MAT) and from the LAL test to the Recombinant Endotoxin Testing (rCR and rFC). The presentation outlines the regulatory landscape in Brazil, including compliance with ANVISA and CONCEA resolutions, validation processes, and the timeline for implementation of these alternative methodologies.

