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Biological Standardization

**Maintaining the Quality of Vaccines Through the Use of Standards:  
Current Challenges and Future Opportunities**  
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Dr Stickings joined the UK's National Institute for Biological Standards and Control (now the UK Medicines & Healthcare products Regulatory Agency) in 2005 where he has been responsible for the independent batch release testing of bacterial vaccines and the development of biological reference materials. Research interests have focused on the development and validation of cell based assays for bacterial toxins and immunochemical assays for toxoid vaccines, as well as development of novel therapeutic monoclonal antibodies. He is currently Head of Vaccine Reference Materials and has led multiple International collaborative studies leading to the establishment of WHO International Standards and is a temporary adviser to the World Health Organization on vaccine control and standardization. He is a member of the European Pharmacopoeia Commission Expert Group on Vaccines and Sera and the United States Pharmacopoeia Expert Committee on Complex Biologics and Vaccines.

