



International Alliance for
Biological Standardization

**Maintaining the Quality of Vaccines Through the Use of Standards:
Current Challenges and Future Opportunities**
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In his current role with Merck Animal Health, Ryan oversees the management of reference standards for multiple U.S. sites, which are used for relative potency estimation of licensed biological products. His responsibilities include leading the qualification of new reference standards, developing and implementing stability monitoring programs for reference standards, and ensuring compliance with USDA regulations. Ryan has over 18 years of experience in the U.S. animal health biologics industry, including 7 years in Biological Research and Development, and was involved in the licensure of several flagship products for Merck Animal Health.

In addition to managing the reference standard program for Merck Animal Health, Ryan serves as a study director and technical support lead for numerous analytical projects, including the development and validation of *in vitro* potency and stability monitoring assays, transfer of test methods between departments and sites, as well as assay troubleshooting and optimization activities in support of licensed biological products.

Ryan obtained both a B.S. and M.S. in Veterinary and Biomedical Sciences from the University of Nebraska, Lincoln. His graduate research involved the creation and evaluation of DNA constructs encoding the attachment glycoprotein of bovine respiratory syncytial virus.

