

# Contents

<b>Preface</b> .....	<b>IX</b>
<i>J.A. Roth, J.A. Richt, I.A. Morozov</i>	
 <i>Session I</i>	
<b>Roles and responsibilities; facilitation and cooperation</b> .....	<b>1</b>
The Role of the Department of Homeland Security, Science and Technology Directorate in the Development of Vaccines and Diagnostics for Transboundary Animal Diseases .....	<b>3</b>
<i>M. Colby, M. Coats, D. Brake, J. Fine</i>	
The Perspective of USDA APHIS Veterinary Services Emergency Management and Diagnostics in Preparing and Responding to Foreign Animal Diseases – Plans, Strategies, and Countermeasures. ....	<b>15</b>
<i>J.R. Diez, D.K. Styles</i>	
Agricultural Research Service: Biodefense Research .....	<b>23</b>
<i>C.G. Gay</i>	
Biologics Industry Challenges for Developing Diagnostic Tests for the National Veterinary Stockpile .....	<b>39</b>
<i>J.M. Hardham, C.M. Lamichhane</i>	
Translating Research into Licensed Vaccines and Validated and Licensed Diagnostic Tests. .	<b>53</b>
<i>R.E. Hill, Jr., P.L. Foley, N.E. Clough, L.R. Ludemann, D.C. Murtle</i>	
 <i>Session II</i>	
<b>State of the art, progress and gaps in development of vaccines and diagnostics for high priority transboundary diseases for the NVS</b> .....	<b>59</b>
Vaccination for the Control of Rift Valley Fever in Enzootic and Epizootic Situations .....	<b>61</b>
<i>B. Dungu, M. Donadeu, M. Bouloy</i>	
Diagnostic Approaches for Rift Valley Fever .....	<b>73</b>
<i>W.C. Wilson, H.M. Weingarlt, B.S. Drolet, K. Davé, M.H. Harpster, P.A. Johnson, B. Faburay, M.G. Ruder, J.A. Richt, D.S. McVey</i>	
Current Status and Future Needs in Diagnostics and Vaccines for High Pathogenicity Avian Influenza .....	<b>79</b>
<i>D.E. Swayne, E. Spackman</i>	
Newcastle Disease: Progress and Gaps in the Development of Vaccines and Diagnostic Tools .....	<b>95</b>
<i>C.L. Afonso, P.J. Miller</i>	
Novel Approaches to Foot-and-Mouth Disease Vaccine Development .....	<b>107</b>
<i>A. Ludi, L. Rodriguez</i>	
Diagnosis of Foot-and-Mouth Disease .....	<b>117</b>
<i>D.J. Paton, D.P. King</i>	
Passive Immunization and Active Vaccination against Hendra and Nipah Viruses. ....	<b>125</b>
<i>C.C. Broder</i>	

Current Status of Diagnostic Methods for Henipavirus .....	139
<i>A. Tamin, P.A. Rota</i>	
Prospects for Development of African Swine Fever Virus Vaccines .....	147
<i>L.K. Dixon, C.C. Abrams, D.D.G. Chapman, L.C. Goatley, C.L. Netherton, G. Taylor, H.H. Takamatsu</i>	
African Swine Fever Diagnosis Update .....	159
<i>J.M. Sánchez-Vizcaino, L. Mur</i>	
Classical Swine Fever .....	167
<i>V. Moennig, P. Becher, M. Beer</i>	
Schmallenberg Virus .....	175
<i>K. Wernike, B. Hoffmann, M. Beer</i>	
Q Fever Diagnosis and Control in Domestic Ruminants .....	183
<i>H.I.J. Roest, A. Bossers, J.M.J. Rebel</i>	
Opportunities in Diagnostic and Vaccine Approaches to Mitigate Potential Heartwater Spreading and Impact on the American Mainland .....	191
<i>N. Vachieri, I. Marcelino, D. Martinez, T. Lefrançois</i>	
Ebola: Facing a New Transboundary Animal Disease?.....	201
<i>F. Feldmann, H. Feldmann</i>	
Review of Ebola Virus Infections in Domestic Animals .....	211
<i>H.M. Weingartl, C. Nfon, G. Kobinger</i>	