



[Animal Health Research Reviews: Volume 21 - Issue 2 | Cambridge Core](#)

**Special issue: Papers from Bovine Respiratory Disease Symposium**

Pages 131 – 199

**Animal Health Research Reviews 21(2); December 2020**

***Special issue: Papers from Bovine Respiratory Disease Symposium***

Bovine Respiratory Disease virtual symposium  
*Christopher C. L. Chase and Amelia R. Woolums* ..... 131

Impact of bovine respiratory disease in U.S. beef cattle  
*Brad J. White and Bob L. Larson* ..... 132

The National Animal Health Monitoring System’s perspective on  
 respiratory disease in dairy cattle  
*Diana M. Short and Jason E. Lombard* ..... 135

Economic considerations of enhanced BRD control  
*Derrell S. Peel* ..... 139

Economics of respiratory disease in dairy replacement heifers  
*Michael W. Overton* ..... 143

Risk factors for bovine respiratory disease in beef cattle  
*David R. Smith* ..... 149

Components of a risk assessment tool for prevention and control of  
 bovine respiratory disease in preweaned dairy calves  
*Sharif S. Aly, Betsy M. Karle, Deniece R. Williams, Gabriele U. Maier and Sasha Dubrovsky* ... 153

The role of the veterinary diagnostic lab in the management of BRD  
*R. G. Helman* ..... 160

Development and application of molecular diagnostics and proteomics to  
 bovine respiratory disease (BRD)  
*John Dustin Loy* ..... 164

The role of the bovine respiratory bacterial microbiota in health and  
 disease  
*Trevor W. Alexander, Edouard Timsit and Samat Amat* ..... 168

Bovine respiratory disease treatment failure: definition and impact  
*Calvin W. Booker* ..... 172

BRD treatment failure: clinical and pathologic considerations  
*T. L. Ollivett* ..... 175



[Animal Health Research Reviews: Volume 21 - Issue 2 | Cambridge Core](#)

**Special issue: Papers from Bovine Respiratory Disease Symposium**

Pages 131 – 199

**Animal Health Research Reviews 21(2); December 2020**

*Special issue: Papers from Bovine Respiratory Disease Symposium* (continued)

|   |     |
|---|-----|
| Pharmacological considerations of antibiotic failures in bovine respiratory disease cases<br><i>Brian V. Lubbers</i> .....          | 177 |
| Genomics: the host’s genotype and its relevance to bovine respiratory disease<br><i>Holly Neibergs</i> .....                        | 179 |
| Improving resistance of cattle to BRD through genomics<br><i>Kristen L. Parker Gaddis</i> .....                                     | 184 |
| Behavior assessment and applications for BRD diagnosis: preweaned dairy calves<br><i>Catie Cramer and Theresa L. Ollivett</i> ..... | 188 |
| Behavior assessment and applications for BRD diagnosis: beef<br><i>John T. Richeson</i> .....                                       | 192 |
| Antimicrobial resistance in <i>Mannheimia haemolytica</i> : prevalence and impact<br><i>Brent Credille</i> .....                    | 196 |