

# Animal Health Research Reviews

## Contents

|   |    |
|---|----|
| A scoping review of ‘big data’, ‘informatics’, and ‘bioinformatics’ in the animal health and veterinary medical literature  |    |
| <i>Zenhwa Ouyang, Jan Sergeant, Alison Thomas, Kate Wycherley, Rebecca Ma, Rosa Esmaeilbeigi, Ali Versluis, Deborah Stacey, Elizabeth Stone, Zvonimir Poljak and Theresa M. Bernardo</i>  | 1  |
| Prospects for predictive modeling of transition cow diseases  |    |
| <i>Lauren Wisnieski, Bo Norby, Steven J. Pierce, Tyler Becker and Lorraine M. Sordillo</i>  | 19 |
| A review of traditional and machine learning methods applied to animal breeding   |    |
| <i>Shadi Nayeri, Mehdi Sargolzaei and Dan Tulpan</i>  | 31 |
| Canine vector-borne disease: mapping and the accuracy of forecasting using big data from the veterinary community   |    |
| <i>Stella C. W. Self, Yan Liu, Shila K. Nordone, Michael J. Yabsley, Heather S. Walden, Robert B. Lund, Dwight D. Bowman, Christopher Carpenter, Christopher S. McMahan and Jenna R. Gettings</i>                               | 47 |
| A review of knowledge discovery process in control and mitigation of avian influenza  |    |
| <i>Samira Yousefi Naghani, Rozita Dara, Zvonimir Poljak and Shayan Sharif</i>   | 61 |
| Mechanisms linking bovine viral diarrhea virus (BVDV) infection with infertility in cattle  |    |
| <i>Chike F. Oguejiofor, Carole Thomas, Zhangrui Cheng and D. Claire Wathes</i>  | 72 |
| Non-antimicrobial approaches at drying-off for treating and preventing intramammary infections in dairy cows. Part 1. Meta-analyses of efficacy of using an internal teat sealant without a concomitant antimicrobial treatment |    |
| <i>Simon Dufour, Vincent Wellemans, Jean-Philippe Roy, Pierre Lacasse, Alfredo Ordóñez-Iturriaga and David Francoz</i>  | 86 |
| Accuracy of paratuberculosis diagnostic tests in small ruminants: protocol for a systematic review and meta-analysis  |    |
| <i>S. Buczinski, J. Arsenault, P. Kostoulas, F. Corbière, G. Fecteau and N. Dendukuri</i>   | 98 |