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## Developing animal feed products

Edited by Dr Navaratnam Partheeban, formerly Royal Agricultural University, UK



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### About the book

This volume reviews key research and the challenges faced in developing new livestock feed products that promote growth whilst also enhancing both product quality and safety. It also summarises recent key developments in the sector, including a better understanding of gut function and the need to replace antibiotics.

### About the editor

**Dr Navaratnam Partheeban** is Dairy Technical Specialist for Phibro Animal Health. He was formerly Senior Lecturer in Livestock Production at the internationally-renowned Royal Agricultural University (RAU) in the UK.

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Available in print and digital formats:

ISBN - print 978-1-78676-463-8

Pages 256

Pub. Date June 2021

Price £150/\$195/€180/C\$255

Series No AS101

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### Part 1 Developing animal products

1. Techniques for identifying new animal feed ingredients and additives: *Jordi Ortuño, Institute of Global Food Security – Queen's University Belfast, UK; Alexandros Ch. Stratakos, Centre for Research in Biosciences – University of the West of England, UK; and Katerina Theodoridou, Institute of Global Food Security – Queen's University Belfast, UK*
2. Effect of processing techniques on the quality of animal feed: *Dennis Forte, Dennis Forte & Associates Pty Ltd, Australia*
3. Processing techniques to optimize digestibility and nutritional value of animal feed: *Charles Stark, Kansas State University, USA*
4. Trends in analytical techniques for testing animal feed: *F. Debode, J. A. Fernández Pierna, M. C. Lecrenier, P. Veys, O. Fumiere, O. Minet, A. Pissard, J. Hulin, N. Chamberland, and V. Baeten, Walloon Agricultural Research Center (CRA-W), Belgium*

### Part 2 Quality and safety assurance

5. Developments in techniques to test the efficacy of animal feed products: *Gerhard Flachowsky and Ulrich Meyer, Institute of Animal Nutrition - Friedrich-Loeffler-Institut (FLI), Germany*
6. Advances in understanding key contamination risks in animal feed: mycotoxins: *Luciano Pinotti, Luca Ferrari, Nicoletta Rovere, Francesca Fumagalli, Sharon Mazzoleni and Federica Cheli, University of Milan, Italy*
7. Risk management systems for prevention and control of contaminants in animal feed: *Regiane R. Santos, Schothorst Feed Research, The Netherlands*
8. Developing effective product dossiers for regulatory approval of new animal feed products: *Manfred Lützow, saqual GmbH, Switzerland*

**“Animals play a key role in the transition towards a circular economy. They valorize co-products to create healthy and nutritious food for humans. This book makes a significant contribution to this process with its review of recent research and development in the field of ruminant and monogastric feed.”**

*Dr Leo A. den Hartog, Professor of Animal Nutrition in a Circular Economy at Wageningen University, the Netherlands, and R&D Director of Nutreco*