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Optimising pig herd health and production

Edited by Professor Dominiek Maes, Ghent University, Belgium

Professor Joaquim Segalés, Universitat Autònoma de Barcelona and IRTA-CReSA, Spain



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About the book

This book highlights the need to develop more preventative measures that can be implemented to tackle the increasing threat of disease. It addresses recent developments in disease prevention, focussing on how farmers and producers can utilise feed management and housing to optimise pig health, as well as the role of vaccine development in preventing the onset of endemic and emerging diseases.

About the editors

Dr Dominiek Maes is Professor of Porcine Health Management in the Faculty of Veterinary Medicine at Ghent University, Belgium.

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Optimising pig herd health and production

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Part 1 Understanding and identifying disease

1. Advances in understanding mechanisms of porcine viral disease transmission/epidemiology: *Joaquim Segalés, Departament de Sanitat i Anatomia Animals, Universitat Autònoma de Barcelona, Centre de Recerca en Sanitat Animal (CReSA) - Institut de Recerca i Tecnologia Agroalimentàries (IRTA) and OIE Collaborating Centre for the Research and Control of Emerging and Re-Emerging Pig Diseases in Europe (CReSA-IRTA), Spain*
2. Understanding and identifying bacterial disease in swine: *Dominiek Maes, Filip Boyen and Freddy Haesebrouck, Ghent University, Belgium*
3. Improving disease surveillance and monitoring systems in pig herds: *Alejandro Ramirez, University of Arizona, USA*
4. Surveillance on swine farms using antemortem specimens: *Berenice Munguía-Ramírez, Betsy Armenta-Leyva, Luis Giménez-Lirola, Chong Wang and Jeffrey Zimmerman, Iowa State University, USA*

Part 2 Understanding immunity and disease resistance

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7. Nutritional strategies to boost immune function in pigs: *Glen W. Almond, North Carolina State University, USA; and Sara D. Hough, DSM Nutritional Products, USA*
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Part 3 Disease prevention

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12. Advances in the development and use of vaccines for prevention of endemic diseases in pigs: *Enric Mateu, Universitat Autònoma de Barcelona, Spain; Ivan Díaz, Centre de Recerca en Sanitat Animal (CReSA, IRTA-UAB) and OIE Collaborating Centre for the Research and Control of Emerging and Re-Emerging Swine Diseases in Europe (IRTA-CReSA), Spain; and Gerard Martín-Valls, Universitat Autònoma de Barcelona, Spain*
13. Advances in developing vaccines for emerging diseases in pigs: *Francisco Javier Martínez Lobo, University of Lleida, Spain*

Part 4 Optimising health through the life cycle

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16. Optimising the health of finisher pigs: *Edgar Garcia Manzanilla, Pig Development Department, Teagasc, The Irish Agriculture and Food Development Authority, Ireland*