CONTENTS

Review

1. B. Niwińska, K. Bilik, M. Andrzejewski – Factors influencing rumenic acid and vaccenic acid content in cow's milk fat . . . 3

Genetics and farm animal breeding

2. A. Bratuś, S. Neuenschwander, A. Piestrzyńska-Kajtoch, M. Świtoński. J. Klukowska-Rötzler, E. Słota – Polymorphisms in DMRT1 coding and promoter regions are probably not causative for swine sex reversal (XX, SRY-negative) syndrome . . . 17
3. M. Tyra, M. Szyndler-Nędza, R. Eckert – Possibilities of using ultrasonography in breeding work with pigs. Part I – Analysis of ultrasonic, ultrasonographic and dissection measurements of the most numerous breeds of pigs raised in Poland . . . 27
4. T. Rychlik, T. Pakulski, A. Krawczyk – Monitoring genetic variation in a conservation flock of Coloured Merino sheep based on blood group and protein polymorphism . . . 41
5. M. Murawski, A. Radowska, J. Niezgoda, D. Fortuna-Wrońska – Cortisol, progesterone and estradiol secretion *in vitro* in postpartum placental cotyledons of ewes that gave birth to single or twin lambs . . . 53
6. A. Woźniak, D. Lipiński, J. Zeyland, A. Nowak, K. Nuc, B. Ryńska, R. Słomski – Molecular and cytogenetic characterization of human albumin transgenic goat fibroblasts as a source of nuclei in somatic cloning . . . 61
7. J. Sosnowski, A. Łukaszewicz, L. Migalska, M. Wojnowska, Z. Polański – Different levels of a lack of X-Y chromosome pairing in pachytene spermatocytes of red fox (*Vulpes vulpes*) and Chinese racoon dog (*Nyctereutes procyonoides procyonoides*) . . . 71

The biology, physiology and reproduction of animals

8. D. Ostojić-Andrić, S. Aleksić, M.M. Petrović, V. Pantelić, Ž. Novaković, L. Sretenović, D. Nikšić – Effects of crossing domestic Simmental with Charolais and Limousin breeds on carcass and meat quality . . . 83
9. Xiuxiang Meng, Baocao Gong, Xiang Leilei – Behavioural differences between captive male alpine musk deer with and without successful copulation . . . 95
10. B. Ślaska, I. Rozempolska-Rucińska – Mating system and level of reproductive performance in mink (*Neovision vision*) . . . 105

Animal nutrition and feedstuffs

11. E. Hanczakowska, A. Szewczyk, K. Okoń – Caprylic, Capric and/or fumaric acids as antibiotic replacements in piglet feed . . . 115
12. J. Koreleski, S. Świątkiewicz, A. Arczewska-Włosek – Rapeseed cake, glycerin and distillers dried grains with solubles used simultaneously as a source of nutrients for hens in their second laying season . . . 125
13. J. Krawczyk, E. Sosin-Bzducha, Z. Kołoszko-Chomentowska, E. Semik – Efficiency of feeding linseed to heritage breed hens . . . 135
14. D. Mikulski, J. Juśkiewicz, A. Skowrońska, E. Sosnowska, J. Jankowski, A. Lecewicz, Z. Zduńczyk – Response of the caecal microflora of turkeys fed diets with a different content of high-fibre sunflower meal . . . 143

Environment, hygiene and animal production technology

15. J. Kondratowicz, Ż. Kułdo, I. Chwastowska-Siwiecka, E. Burczyk, J. Piekarska – The effect of packaging method and cold storage time under controlled atmosphere conditions on quality of turkey breast muscle . . . 157
16. B. Barabasz, S. Łapiński, D. Fortuńska – Productive value of Finn raccoons (*Nyctereutes procyonoides* Gray 1834) with confident temperament . . . 165