

CONTENTS

Genetics and farm animal breeding

1. J. Jura, Z. Smorąg, B. Gajda, J. Jurkiewicz — Production of F_1 and F_2 generations of *WAP-Fuc* transgenic pigs. Molecular analysis 215
2. E. Słota, B. Rejduch, B. Danielak-Czech, M. Bugno, J. Jura, Z. Smorąg — Analysis of chromosome structure and physical localization of the *WAP-Fuc* construct in the genome of transgenic pigs 223
3. E. Michalak, L. Kątska-Książkiewicz, R. Kalak, D. Lipiński, K. Wielgus, M. Jarmuż, M. Szalata, B. Ryńska, Z. Smorąg, R. Słomski — *In vitro* transfection of fibroblasts and evaluation of transgenesis in long-term cell cultures 233
4. R. Kalak, D. Lipiński, K. Wielgus, M. Jarmuż, J. Jura, M. Szalata, E. Michalak, A. Pławski, M. Kaczmarek, K. Nuc, A. Korcz, P. Gronek, Z. Smorąg, M. Pienkowski, R. Słomski — Assessment of transgene inheritance and transgene mapping in rabbits producing the human growth hormone in milk 241
5. K. Adamczyk, J. Szarek, G. Skrzyński, J. Strzetelski — Effect of body conformation of crossbred bulls on their slaughter value 253
6. T. Blicharski, G. Żak, M. Pierzchała — Estimating meat quantity and percentage in ham and loin from pork carcasses at meat plants 261
7. J. Sikora, J. Krupiński, J. Knapik — Fattening and slaughter performance of ram lambs derived from crossing Polish Merino with Romanov sheep and Mouton Charollais rams 269
8. J. Książkiewicz — Changes in productivity traits over four generations in two conservative synthetic lines of duck 281
9. A. Mazanowski, Z. Bernacki, T. Kisiel — Meat traits and meat chemical composition of crossbreds derived from ganders of Kartuska or Graylag ancestry and Astra G geese 293
10. M. Bochenek, Z. Smorąg — Sperm chromatin structure assay of transgenic boars 309
11. B. Gajda, Z. Smorąg — Cell number in pig blastocysts cultured in different media 315
12. J. Jura, R. Słomski, Z. Smorąg, B. Gajda, J. Wieczorek, D. Lipiński, R. Kalak, W. Juzwa, J. Zeyland — Production of transgenic pigs suitable for xenotransplantation with the use of standard DNA microinjection 321
13. Z. Smorąg, E. Wayda, B. Gajda, J. Jurkiewicz — Bacteriostatic properties of milk produced by *WAP-Fuc* transgenic sows 329
14. M. Różycki, A. Mucha, M. Tyra — Effect of the *WAP-Fuc* gene on growth traits of piglets and their subsequent fattening and slaughter value 335

Biology, physiology and animal reproduction

15. M. Bochenek, M. Skrzyszowska, Z. Smorąg — Effect of apoptosis of *in vitro* cultured nuclear donor cells on developmental potential of cloned goat embryos 341
16. M. Szalata, D. Lipiński, R. Kalak, P. Toboła, J. Lehmann, K. Wielgus, J. Jura, Z. Smorąg, M. Pienkowski, R. Słomski — Purification and characterization of the human growth hormone obtained in the milk of transgenic rabbits 351
17. R. Józefczyk, M. Droba — Acid glycosidases in the testes of Japanese quail 363

18. K. Bilik, J. Strzetelski, Z. Choroszy — Effect of feeding level in pubertal Red-and-White × Holstein-Friesian heifers on some productive traits and later milk yield 371
19. J. Strzetelski, B. Niwińska, J. Kowalczyk, F. Borowiec, P. Domański — Chemical composition and ruminal nutrient degradability of fourteen lucerne cultivars 387
20. I. Karpa, I. Ratych, G. Stojanovska, L. Andrejeva, F. Borowiec — Influence of diet change on the antioxidant status and productivity of laying hens 395

Environment, hygiene and animal production technology

21. H.T. Korhonen, L. Jauhiainen, L. Kokkonen, T. Rekilä — Digging in farmed blue foxes: essential or not? 405

Economics and organization of animal production

22. J. Krawczyk, Z. Sokołowicz — Profitability of hatching egg production in 2002–2003 421