

# PERADARSTVO, BIOLOŠKI I ZOOTEHNIČKI PRINCIPI

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## Pregledi knjiga – Books review

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### PERADARSTVO, BIOLOŠKI I ZOOtehnički PRINCIPJI *POULTRY SCIENCE – BIOLOGICAL AND ZOOtechnICAL PRINCIPLES*

**Gordana Kralik, Elizabeta Has-Schön, D. Kralik, Marcela Šperanda**

Sveučilišni udžbenik/*Academic textbook*

Izdavač/*Publisher*: Sveučilište Josipa Jurja Strossmayera u Osijeku, Poljoprivredni fakultet u Osijeku/*J.J. Strossmayer University of Osijek, Faculty of Agriculture in Osijek*, 2009.

ISBN: 978-953-6331-60-4

#### SADRŽAJ

Sveučilišni udžbenik *Peradarstvo - biološki i zootehnički principi* temelji se na suvremenim spoznajama iz selekcije, uzgoja, hranidbe i tehnologije proizvodnje pri intenzivnom iskorištavanju pojedinih kategorija kokoši, pura, gusaka i pataka. Posebno su prikazani pokazatelji kvalitete mesa peradi i jaja, kao i modificiranje njihovog prehrambenog sastava u pravcu proizvodnje funkcionalne hrane. Za maksimalno iskorištavanje genetskog potencijala peradi potrebno je poznavati građu i funkciju organskih sustava. Tako je iscrpno obrađen kostur peradi, karakterističan u odnosu na ostale kralježnjake. Obrađeni su: dišni sustav, krvžilni i limfni sustav, probavni sustav, sustav organa za izlučivanje, spolni sustav, endokrini sustav i osjetila. Uz metaboličke procese koji su zajednički svim kralježnjacima iscrpno su opisane i objašnjene specifične metaboličke prilagodbe karakteristične za kralježnjake koji lete, poput peradi. U udžbeniku je opisana moderna tehnologija koja je sve više prisutna u peradarskoj proizvodnji. Danas uzgoj peradi predstavlja potpuno automatizirani proces s minimalnim fizičkim naprezanjima zootehničara. Suvremena proizvodnja peradi složeni je proces koji zahtijeva stručnu i znanstvenu educiranost uzgajivača, zootehničke uvjete prilagođene genetskom potencijalu današnjih pasmina i hibrida peradi, kao i zadovoljavanje visokih standarda u pogledu zaštite okoliša.

#### CONTENT

The academic textbook *Poultry Breeding – Biological and Zootechnical Principles* presents up-to-date trends and knowledge on selection, breeding, nutrition and production technology in intensive exploitation of different types of poultry, i.e. hens, turkeys, geese and ducks. A special emphasis is put on presentation of poultry meat and egg quality indicators, as well as on modification of their nutritive composition for the purpose of production of functional food. In order to make advantage of the poultry genetic potential, it is necessary to understand anatomy and functioning of the animal organ system. With this respect, this handbook presents the poultry skeleton in detail, as it differs from skeleton of other vertebrates. Furthermore, the following organ systems: respiratory, circulatory and lymphatic, digestive, excretory, reproductive and endocrine, as well as sensory system, are elaborated in the handbook. Along with metabolic processes that all vertebrates have in common, additional attention has been given to specific metabolic adjustments of vertebrates that have the ability to fly, like poultry. This handbook also presents modern technology that is applied in poultry production. Modern poultry production is completely automated process that requires minimum physical engagement of zootechnicians. At the same time, it is also a very complex process that demands professional and scientific knowledge of breeders, as zootechnical conditions need to be adjusted to genetic potential of contemporary poultry breeds and hybrids, as well as to attain high standards of environment protection.