

BIOTECHNOLOGY IN ANIMAL HUSBANDRY

CONTENTS

<i>Z. Pavlovski, Z. Škrbić, M. Lukić, D. Vitorović, S. Lilić, V. Petričević</i> SHELL QUALITY – EVERLASTING PROBLEM IN THE TODAY POULTRY SCIENCE.....	393
<i>N. Mincheva, M. Lalev, M. Oblakova, P. Hristakieva, I. Ivanova</i> EFFECT OF FEATHERING ALLELES (K/k ⁺) ON LAYING PERFORMANCE, HATCHABILITY PARAMETERS AND SOME BODY MEASUREMENTS IN TWO LINES OF WHITE PLYMOUTH ROCK HENS.....	405
<i>N. Tolimir, L. Perić, N. Milošević, M. Đukić – Stojčić, R. Jovanović, V. Bogdanović</i> THE EFFECT OF PHASE NUTRITION DURING STARTER PERIOD ON PRODUCTION PERFORMANCES AND NITROGEN CONTENT IN FECES OF BROILERS OF DIFFERENT GENOTYPES.....	415
<i>M. Đukić Stojčić, N. Milošević, L. Perić, I. Jajić, N. Tolimir</i> EGG QUALITY OF JAPANESE QUAIL IN SERBIA (<i>Coturnix coturnix japonica</i>) <i>E. N. Uchewa, P. N. Onu</i>	425
THE EFFECT OF FEED WETTING AND FERMENTATION ON THE PERFORMANCE OF BROILER CHICK.....	433
<i>M. Sahraei, H. Janmmohamadi, A. Taghizadeh, G. Ali Moghadam, S. A. Rafat</i> ESTIMATION OF THE RELATIVE BIOAVAILABILITY OF SEVERAL ZINC SOURCES FOR BROILERS WHEN FED A CONVENTIONAL DIET.....	441
<i>V. Vidović, D. Lukač, M. Stupar, V. Višnjić, J. Krnjaić</i> HERITABILITY AND REPEATABILITY ESTIMATES OF REPRODUCTION TRAITS IN PUREBRED PIGS.....	455
<i>Č. Radović, M. Petrović, N. Parunović, N. Brkić, B. Živković, M. Gogić, N. Stanišić</i> THE EFFECT OF GENOTYPE AND YEAR ON TRAITS OF PERFORMANCE TESTED GILTS.....	463
<i>M. Popovac, D. Radojković, M. Petrović, M. Mijatović, M. Gogić, D. Stanojević, N. Stanišić</i> HERITABILITY AND CONNECTIONS OF SOW FERTILITY TRAITS.....	469
<i>Đ. Okanović, D. Ivanov, D. Palić, A. Mandić, N. Ilić</i> MEAT FATTY ACID PROFILE OF PIGS FED LINSEED ENRICHED DIET.....	477
<i>R. Đedović, V. Bogdanović, G. Trifunović, M. Petrović, M. M. Petrović, D. Stanojević</i> THE EFFECT OF THE LEVEL OF MILK YIELD ON THE REPRODUCTION TRAITS IN BLACK AND WHITE COWS.....	487
<i>D. Nikšić, V. Pantelić, D. Ostojić-Andrić, P. Perišić, M. Petričević, R. Đedović, M. Lazarević</i> RESULTS OF THE BIOLOGICAL TEST OF SIMMENTAL BULLS IN CENTRAL SERBIA.....	497
<i>R.T. Gudaj, E. Brydl, J. Lehoczky, I. Komlósi</i> STUDY OF ANIMAL WELFARE STATUS IN DAIRY COW HERDS IN HUNGARY.....	509
<i>M.P.Petrović, V. Caro Petrović, D. Ružić Muslić, Z. Ilic, B. Milosević, J.Stojković, N. Maksimović</i> SOME IMPORTANT FACTORS AFFECTING FERTILITY IN SHEEP.....	517
<i>D. Ružić-Muslić, M. P. Petrović, M. M. Petrović, Z. Bijelić, V. Pantelić, P. Perišić, V. Caro-Petrović</i> THE EFFECT OF THE SYSTEM OF CROSSING ON FATTENING PARAMETERS OF WEANED LAMBS.....	529

VOL 28, 3

Founder and publisher
**INSTITUTE FOR
ANIMAL HUSBANDRY**
11080 Belgrade-Zemun
Belgrade 2012

Z. Ilić, J. Stojković, D. Ružić Muslić, V. Caro Petrović, M. P. Petrović, R. Djoković, V. S. Kurčubić	
THE INFLUENCE OF BIOLOGICALLY ACTIVE SUPPLEMENT "BIORIL" ON PERFORMANCE OF FATTENING LAMBS.....	537
J. Stojković, Z. Ilić, S. Čirić, B. Ristanović, M. P. Petrović, V. Caro Petrović, V. Kurčubić	
EFFICIENCY OF ZEOLITE BASIS PREPARATION IN FATTENING LAMBS DIET.....	545
M. Joksimović Todorović, V. Davidović, Lj. Sretenović	
THE EFFECT OF DIET SELENIUM SUPPLEMENT ON MEAT QUALITY.....	553
D. Trbović, D. Vranić, J. Djinović-Stojanović, V. Matekalo-Sverak, V. Djordjević, J. Babić, D. Spirić, R. Petronijević, A. Spirić	
FATTY ACID PROFILE IN RAINBOW TROUT (<i>ONCORHYNCHUS MYKISS</i>) AS INFLUENCED BY DIET.....	563
H. F. Abou-Shaara, A. A. Al-Ghamdi	
STUDIES ON WINGS SYMMETRY AND HONEY BEE RACES DISCRIMINATION BY USING STANDARD AND GEOMETRIC MORPHOMETRICS.....	575
S. Janković, S. Rakić, J. Ikanović, J. Kuzevski, Lj. Živanović, Ž. Lakić	
CORRELATION COEFFICIENTS OF MORPHOLOGICAL-PRODUCTIVE TRAITS OF SPECIES OF <i>SORGHUM</i> GENUS	585
S. Rakić, S. Janković, M. Demin, D. Bucalo, M. Maslovarić	
QUALITY AND CONDITION OF WHEAT GRAIN (<i>Triticum spp.</i>) DURING STORAGE.....	595
A. Akinfemi	
UPGRADING OF SUGARCANE BAGASE BY SOLID STATE FERMENTATION WITH <i>PLEUROTUS SAJOR-CAJU</i> AND <i>PLEUROTUS FLORIDA</i> AND THE IMPACT ON THE CHEMICAL COMPOSITION AND <i>IN VITRO</i> DIGESTIBILITY.....	603
Ya. Kozhouharov, V. Lingorski	
INFLUENCE OF MINERAL FERTILIZATION ON SOME BIOLOGICAL AND PRODUCTIVE INDICATORS OF NATURAL MEADOW OF <i>AGROSTIS CAPILLARIS-FESTUCA FALLAX</i> TYPE IN THE RHODOPE MOUNTAINS (SOUTHERN BULGARIA).....	613
S. Đedović, M. Vukša, M. M. Petrović, J. Bojkovski, I. Pavlović, G. Jokić, B. Stojnić	
CONTROL OF BROWN RAT (<i>Rattus norvegicus</i>) ON A DAIRY FARM IN SERBIA.....	623

Journal for the Improvement of Animal Husbandry

UDC636

Print ISSN 1450-9156
Online ISSN 2217-7140

BIOTECHNOLOGY IN ANIMAL HUSBANDRY

Belgrade - Zemun 2012

Editorial Council

Prof. Dr Milica Petrović, president
Prof. Dr Lidija Perić, full prof.
Prof. Dr Vojislav Pavlović, full prof.
Dr. Zoran Lugić, science advisor

Prof. Dr Zlatko Skalicki, full prof.
Dr Miroslav Blagojević
Dr Branka Vidić, science advisor

Editor's Office

Prof. Dr. Martin Wähner, Germany
Dr. Branislav Živković, Serbia
Dr. Marin Todorov, Bulgaria
Dr. Milan M. Petrović, Serbia
Prof. Dr. Kazutaka Umetsu, Japan
Prof. Dr. Dragan Glamočić, Serbia
Prof. Dr. Vigilijus Jukna, Lithuania
Dr. Elena Kistanova, Bulgaria

Prof. Dr. Wladyslaw Migdal, Poland
Prof. Dr. Colin Whitehead, United Kingdom
Dr. Branislav Bobček, Slovak Republic
Prof. Dr. Sandra Edwards, United Kingdom
Dr. Vojislav Mihailović, Serbia
Prof. Dr. Giacomo Biagi, Italy
Prof. Dr. Stelios Deligeorgis, Greece
Prof. Dr. Hasan Ulker, Turkey
Dr. Catalin Dragomir, Romania

On behalf of publisher

Miloš Lukić, PhD, Research Fellow, Director of the Institute for Animal Husbandry, Belgrade-Zemun, Serbia

Editor in Chief

Zlatica Pavlovski, PhD, Science Advisor, Institute for Animal Husbandry, Belgrade-Zemun, Serbia

Deputy Editor in Chief

Zorica Tomić, PhD, Science Advisor, Institute for Animal Husbandry, Belgrade-Zemun, Serbia

Editor

Miloš Lukić, Ph.D, Research Fellow, Institute for Animal Husbandry, Belgrade-Zemun, Serbia

Section Editors

Genetics and breeding

Milan P. Petrović, Ph.D, science advisor

Reproduction and management

Miroslav Žujović, Ph.D, science advisor

Nutrition and physiology of domestic animals

Ljiljana Sretenović, Ph.D, science advisor

Food safety, technology and quality of animal products

Stevica Aleksić, Ph.D, science advisor

Sustainability of feed production and ecology

Zorica Bijelić, Ph.D, research fellow

Alternative production in livestock

Zdenka Škrbić, Ph.D, senior research fellow

Language editor

Olga Devečerski, grad. prof.

Address of the Editor's office

Institute for Animal Husbandry, Autoput 16, P. Box 23, 11080 Belgrade-Zemun, Republic of Serbia
Tel. 381 11 2691 611, 2670 121; Fax 381 11 2670 164; e-mail: biotechnology.izs@gmail.com; www.istocar.bg.ac.rs

Biotechnology in Animal Husbandry is covered by Agricultural Information Services (AGRIS) -Bibliographic coverage of abstracts; Electronic Journal Access Project by Colorado Alliance Research Libraries -Colorado, Denver; USA; Matica Srpska Library -Referral Center; National Library of Serbia; University Library "Svetozar Markovic", Belgrade, Serbia

According to CEON bibliometrical analysis citation in SCI index 212, in ISI 9, impact factor (2 and 5) of journal in 2007: 0,667 and 0,467, - M24 category

Annual subscription: for individuals -500 RSD, for organizations 1200 RSD, -foreign subscriptions 20 EUR. Bank account Institut za stočarstvo, Beograd-Zemun 105-1073-11 Aik banka Niš Filijala Beograd.

Journal is published in four issues annually, circulation 100 copies.

The publication of this journal is sponsored by the Ministry of Education and Science of the Republic of Serbia.

Printed: "Mladost birošped", Novi Beograd, St. Bulevar AVNOJ-a 12, tel. 381 11 2601-506