

Tropical Animal Science Journal

Use of Random Regression Models to Estimate the Heritability of Weight Growth in Meat Quails

N. L. Pavan, F. L. de Menezes, M. M. M. Laureano, A. P. S. Ton, S. I. Araújo, R. N. C. Camargo Júnior, W. C. da Silva, E. B. R. da Silva, & C. V. de Araújo

Association of BoLA-DRB3 Alleles with the Progression of Bovine Leukosis in the Lucerna Breed

D. Y. Hernández-Herrera & D. F. Carrillo-González

Determining the Minimum Time Interval for Completely Eliminating the Carryover Effect of Dehydration in Heat-Stressed Goats: Insights from Physiochemical Mechanisms

E. M. Samara, M. A. Al-Badwi, K. A. Abdoun, & A. A. Al-Haidary

The Quality of Gaga Roosters Semen During Cold Storage Using a Diluent Supplemented with Sorbitol

Khaeruddin, G. Ciptadi, M. Yusuf, A. H. Fattah, Junaedi, B. Syamsuryadi, & S. Wahjuningsih

The Association of IGFBP7 Gene Polymorphism on Lamb Meat Quality in Javanese Thin-Tailed Sheep

Komarudin, K. Listyarini, C. Budiman, C. Sumantri, & A. Gunawan

Selenium Supplementation Tended to Increase Digestibility and Milk Fat Content in Dairy Goats: A Meta-Analysis

D. P. Nurmalia, T. E. Susilowini, O. Sjofjan, & D. N. Adli

Health Status of Broiler Chickens Fed Diets Containing Palm Kernel Cake with Enzyme Mixture Supplementation

S. Zubaidah, B. Ariyadi, C. Hanim, A. P. Baskara, & Zuprizal

Enhancing Nutrient Intake, Digestibility, Rumen Fermentation, and Blood Metabolites in Kacang Goats Using Compost-Enriched Hydroponic Maize Fodder

E. D. Sulistijo, I. Benu, G. Oematan, U. S. Rosnah, M. A. Hilakore, & I. G. N. Jelantik

Chemical and Physical Quality, Fermentation Characteristics, Aerobic Stability, and Ruminal Degradability of Sorghum Silage Inoculated with *Lactiplantibacillus plantarum* and *Limosilactobacillus fermentum*

D. Fitriani, M. Ardiansyah, A. Kurniawati, Z. Bachruddin, & D. H. V. Paradhipta

Dynamics of Physiological Poikilocytosis and Anisocytosis in Cholistani Cattle Blood

Z. U. Rehman, U. Farooq, M. H. Lashari, M. Idris, M. Asif, R. Hameed, & M. Chaudhary

The Prediction of Somatic Cell Count Through Multilayer Perceptron of Deep Machine Learning

M. İ. Yeşil & S. Göncü

Characteristics of Liquid Egg White with Addition of Forest Bee Honey During Cold Storage

K. W. Saputri, Nurliyani, & Widodo

Evaluating Physicochemical Properties of Whey-Chia Seed Edible Films for Biodegradable Packaging

F. Fahrullah, A. Noersidiq, D. Kisworo, & F. Maruddin

Perceptions and Economic Losses of Foot and Mouth Disease to Beef Cattle Farmers in Bantul Regency, Yogyakarta

D. W. Putra, T. A. Kusumastuti, S. Andarwati, Panjono, & B. Guntoro

Enhancing Heat Stress Resilience in Broiler Chickens Through the Use of Probiotics and Postbiotics: A Review

S. Rakngam, Y. Zhu, S. Okrathok, C. Pukkung, & S. Khempaka



SJR



DOAJ



Dimensions



Google



GARUDA
GARBA RUJUKAN DIGITAL

Tropical Animal Science Journal

Accredited by Directorate General of Higher Education, Research, and Technology
Ministry of Education, Culture, Research, and Technology, Republic of Indonesia
No: 225/E/KPT/2022

EDITORIAL TEAM

CHIEF EDITOR

Komang G. Wiryawan, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 7801509481)

ASSOCIATE EDITORS

Luki Abdullah, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 56745076500)

Jakaria, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 57031826400)

Sri Mulatsih, Faculty of Economics and Management, IPB University, Indonesia (Scopus ID: 57202135016)

Sri Suharti, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 57195329169)

Tuti Suryati, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 55972366100)

INTERNATIONAL ADVISORY EDITORS

Abdul Razak Alimon, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia (Scopus ID: 6603104909)

Jong K. Ha, Seoul National University, South Korea (Scopus ID: 7202103302)

Junichi Takahashi, Obihiro University of Agriculture and Veterinary Medicine, Japan (Scopus ID: 14627747100)

Metha Wanapat, Faculty of Agriculture, Khon Kaen University, Thailand (Scopus ID: 35611069000)

EDITORIAL BOARDS

Anjas Asmara B. Samsudin, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia (Scopus ID: 54401635800)

Anuraga Jayanegara, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 36967556600)

Arief Boediono, School of Veterinary Medicine and Biomedical Sciences, IPB University, Indonesia (Scopus ID: 9040094200)

Armagan Hayirli, Faculty of Veterinary Medicine, Ataturk University, Turkey (Scopus ID: 6603278636)

Asep Gunawan, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 57217603625)

A. K. Thiruvenkadhan, Tamil Nadu Veterinary and Animal Sciences University, India (Scopus ID: 6603017632)

Beob Gyun Kim, Department of Animal Science and Technology, Konkuk University, South Korea (Scopus ID: 26654167200)

Budi Santoso, Faculty of Animal Science, University of Papua, Indonesia (Scopus ID: 56349607800)

Burhanudin Sundu, Faculty of Agriculture, Tadulako University, Indonesia (Scopus ID: 12807405800)

Cahyo Budiman, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 30367583300)

Cece Sumantri, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 6601992915)

Despal, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 57190671699)

Damiano Cavallini, Department of Veterinary Medical Science, University of Bologna, Italy (Scopus ID: 57202249924)

Doohong Min, Department of Agronomy, Kansas State University, USA (Scopus ID: 7201669188)

Elizabeth Wina, Indonesian Research Institute for Animal Production, Indonesia (Scopus ID: 8566020700)

Epi Taufik, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 54944538500)

Irma Isnafia Arief, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 56355088400)

Loh Teck Chwen, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia (Scopus ID: 57212574896)

Lucia Cyrilla, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 57190664471)

Mulyoto Pangestu, Faculty of Medicine, Nursing and Health Sciences, Monash University, Australia (Scopus ID: 35488897500)

Myunggi Baik, College of Agriculture and Life Sciences, Seoul National University, South Korea (Scopus ID: 7006971317)

Nahrowi, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 6603628066)

Neelish Sharma, Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu (SKUAST-J), India (Scopus ID: 57205213244)

Rita Mutia, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 57188699936)

Rudi Afnan, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 57188706534)

Tugay Ayaşan, Osmaniye Korkut Ata University Kadırlı Faculty of Applied Sciences, Osmaniye/Turkey (Scopus ID: 34975121000)

Vincent Niderkorn, French National Institute for Agriculture, Food, and Environment (INRAE), France (Scopus ID: 14619705100)

Wasmen Manalu, School of Veterinary Medicine and Biomedical Sciences, IPB University, Indonesia (Scopus ID: 6701769736)

Windi Al Zahra, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 56331223100)

Yuan-Yu Lin, Department of Animal Science and Technology, National Taiwan University, Taiwan (R.O.C.) (Scopus ID: 55749317700)

TECHNICAL EDITORS

Irma Nurannya Purnama, Faculty of Animal Science, IPB University, Indonesia

Yuni Cahya Endrawati, Faculty of Animal Science, IPB University, Indonesia (Scopus ID: 57224529281)

Tropical Animal Science *Journal*

Accredited by Directorate General of Higher Education, Research, and Technology
Ministry of Education, Culture, Research, and Technology, Republic of Indonesia
No: 225/E/KPT/2022

PUBLISHER

Faculty of Animal Science, IPB University (Bogor Agricultural University) associated with Animal Scientist's Society of Indonesia

SCOPE OF JOURNAL

Tropical Animal Science Journal receives original manuscripts encompass a broad range of research topics in tropical animal sciences: breeding and genetics, reproduction and physiology, nutrition, feed sciences, agro-technology, animal products, biotechnology, behaviour, welfare, health and veterinary, livestock farming system, socio-economic, animal waste management, and policy.

Authors have to prepare the manuscripts according to Tropical Animal Science Journal's guidelines. Manuscript and statement of originality and copyright release form (Form A) should be submitted via online submission through journal website: <https://journal.ipb.ac.id/index.php/tasj>.

ABOUT JOURNAL

Tropical Animal Scince Journal (Trop. Anim. Sci. J.) previously Media Peternakan is a scientific journal covering broad aspects of tropical animal sciences. Started from 2018, the title is changed from Media Peternakan in order to develop and expand the distribution as well as increase the visibility of the journal. The journal is published FOUR times a year in March, June, September, and December by Faculty of Animal Science, IPB University (Bogor Agricultural University), associated with Animal Scientist's Society of Indonesia.

Tropical Animal Scince Journal is a peer reviewed journal that has been indexed and abstracted in Elsevier products (Scopus, Reaxys), Clarivate Analytics product (Emerging Sources Citation Index), Scimago Journal Rank, ASEAN Citation Index, DOAJ, Dimensions-Digital Science, CABI, EBSCO, Science and Technology Index (SINTA), Google Scholar, and other scientific databases. The journal also uses Similarity Check to prevent any suspected plagiarism in the manuscripts.

SECRETARIAT OF TROPICAL ANIMAL SCIENCE JOURNAL

Faculty of Animal Science Building, IPB University
Jalan Agatis, Kampus IPB Dramaga, Bogor 16680, West Java, Indonesia
Phone: +62-251-8622841 / Fax: +62-251-8622842
e-mail: mediapeternakan@apps.ipb.ac.id; mediapeternakan@yahoo.co.id
website: <https://journal.ipb.ac.id/index.php/tasj>

Tropical Animal Science *Journal*

Accredited by Directorate General of Higher Education, Research, and Technology
Ministry of Education, Culture, Research, and Technology, Republic of Indonesia
No: 225/E/KPT/2022

HISTORY

Tropical Animal Science Journal (Trop. Anim. Sci. J.) (p-ISSN 2615-787X and e-ISSN 2615-790X) previously Media Peternakan (published from 1967-2017 with p-ISSN 0126-0476 and e-ISSN 2087-4634) is a scientific journal covering broad aspects of tropical animal sciences. Started from 2018, the title is changed from Media Peternakan in order to develop and expand the distribution as well as increase the visibility of the journal. The journal is published FOUR times a year in March, June, September, and December started from the year 2020 by Faculty of Animal Science, IPB University (Bogor Agricultural University), associated with Animal Scientist's Society of Indonesia.

The first edition with the new title was published in April 2018 edition (Vol 41 No 1 2018), while the previous edition (up to 2017 edition) still use Media Peternakan as the title. The online version of Tropical Animal Scince Journal could be accessed in the new website (<http://journal.ipb.ac.id/index.php/tasj>) and the previous editions are available in the old website (<http://medpet.journal.ipb.ac.id/>).

Tropical Animal Science Journal has been indexed and abstracted in Elsevier products (Scopus, Reaxys), Clarivate Analytics products (Emerging Sources Citation Index), Scimago Journal Rank, ASEAN Citation Index, DOAJ, Dimensions-Digital Science, CABI, EBSCO, Science and Technology Index (SINTA), Google Scholar, and other scientific databases. The journal also uses Similarity Check to prevent any suspected plagiarism in the manuscripts.

Tropical Animal Science Journal

Accredited by Directorate General of Higher Education, Research, and Technology
Ministry of Education, Culture, Research, and Technology, Republic of Indonesia
No: 225/E/KPT/2022

LIST OF CONTENT

Use of Random Regression Models to Estimate the Heritability of Weight Growth in Meat Quails N. L. Pavan, F. L. de Menezes, M. M. M. Laureano, A. P. S. Ton, S. I. Aratujo, R. N. C. Camargo Júnior, W. C. da Silva, E. B. R. da Silva, & C. V. de Araújo	409
Association of BoLA-DRB3 Alleles with the Progression of Bovine Leukosis in the Lucerna Breed D. Y. Hernández-Herrera & D. F. Carrillo-González	417
Determining the Minimum Time Interval for Completely Eliminating the Carryover Effect of Dehydration in Heat-Stressed Goats: Insights from Physiochemical Mechanisms E. M. Samara, M. A. Al-Badwi, K. A. Abdoun, & A. A. Al-Haidary	426
The Quality of Gaga Roosters Semen During Cold Storage Using a Diluent Supplemented with Sorbitol Khaeruddin, G. Ciptadi, M. Yusuf, A. H. Fattah, Junaed, B. Syamsuryadi, & S. Wahjuningsih	436
The Association of IGFBP7 Gene Polymorphism on Lamb Meat Quality in Javanese Thin-Tailed Sheep Komarudin, K. Listyarini, C. Budiman, C. Sumantri, & A. Gunawan	448
Selenium Supplementation Tended to Increase Digestibility and Milk Fat Content in Dairy Goats: A Meta-Analysis D. P. Nurmala, T. E. Susilorini, O. Sjofjan, & D. N. Adli	456
Health Status of Broiler Chickens Fed Diets Containing Palm Kernel Cake with Enzyme Mixture Supplementation S. Zubaidah, B. Ariyadi, C. Hanim, A. P. Baskara, & Zuprizal	465
Enhancing Nutrient Intake, Digestibility, Rumen Fermentation, and Blood Metabolites in Kacang Goats Using Compost-Enriched Hydroponic Maize Fodder E. D. Sulistijo, I. Benu, G. Oematan, U. S. Rosnah, M. A. Hilakore, & I. G. N. Jelantik	475
Chemical and Physical Quality, Fermentation Characteristics, Aerobic Stability, and Ruminal Degradability of Sorghum Silage Inoculated with <i>Lactiplantibacillus plantarum</i> and <i>Limosilactobacillus fermentum</i> D. Fitriani, M. Ardiansyah, A. Kurniawati, Z. Bachruddin, & D. H. V. Paradhipta	483
Dynamics of Physiological Poikilocytosis and Anisocytosis in Cholistani Cattle Blood Z. U. Rehman, U. Farooq, M. H. Lashari, M. Idris, M. Asif, R. Hameed, & M. Chaudhary	493
The Prediction of Somatic Cell Count Through Multilayer Perceptron of Deep Machine Learning M. İ. Yeşil & S. Göncü	503
Characteristics of Liquid Egg White with Addition of Forest Bee Honey During Cold Storage K. W. Saputri, Nurliyani, & Widodo	510
Evaluating Physicochemical Properties of Whey-Chia Seed Edible Films for Biodegradable Packaging F. Fahrullah, A. Noersidiq, D. Kisworo, & F. Maruddin	519
Perceptions and Economic Losses of Foot and Mouth Disease to Beef Cattle Farmers in Bantul Regency, Yogyakarta D. W. Putra, T. A. Kusumastuti, S. Andarwati, Panjono, & B. Guntoro	529
Enhancing Heat Stress Resilience in Broiler Chickens Through the Use of Probiotics and Postbiotics: A Review S. Rakngam, Y. Zhu, S. Okrathok, C. Pukkung, & S. Khempaka	538