

# Media Petersnakan

*Journal of Animal Science and Technology*

Accredited by Directorate General of Research and Development Strengthening,  
Ministry of Research, Technology and Higher Education of the Republic of Indonesia  
No: 36b/E/KPT/2016

**Isolation and Number of Gonadal Primordial Germ Cells (Gonadal PGCs) on the Stages of Early Embryonic Development of KUB Chicken.** S. Sopiayana, M. A. Setiadi, M. Fahrudin, & I. Supriatna

**Insulin-Like Growth Factor-I Concentration in the Follicular Fluid of Bali Cattle and Its Role in the Oocyte Nuclear Maturation and Fertilization Rate.** H. Hasbi, S. Gustina, N. W. K. Karja, I. Supriatna, & M. A. Setiadi

**Plant Growth Pattern, Forage Yield, and Quality of *Indigofera zollingeriana* Influenced by Row Spacing.** N. R. Kumalasari, G. P. Wicaksono, & L. Abdullah

**Supplementation of Zinc and Vitamin E on Apparent Digestibility of Nutrient, Carcass Traits, and Mineral Availability in Broiler Chickens.** T. F. Rayani, R. Mutia, & Sumiati

**Fermentation Characteristics and Nitrogen Retention of Madura Cattle Fed Complete Rations Containing Soybean Pod and By-Products.** K. G. Wiryawan, A. Saefudin, A. M. Fuah, R. Priyanto, L. Khotijah, & S. Suharti

**Isolation of Lactic Acid Bacteria with Cholesterol-Lowering Activity from Digestive Tracts of Indonesian Native Chickens.** H. Julendra, A. E. Suryani, L. Istiqomah, E. Damayanti, M. Anwar, & N. Fitriani

**Legume Wafer Supplementation to Increase the Performance of Post-Weaning Ettawa Grade Goats.** B. D. Dianingtyas, Y. Retnani, & D. Evvyernie

**Effectiveness of the Red Dragon Fruit (*Hylocereus polyrhizus*) Peel Extract as the Colorant, Antioxidant, and Antimicrobial on Beef Sausage.** F. M. Manihuruk, T. Suryati, & I. I. Arief

**Chemical Characteristics of Goat Cheese with Different Percentages of Mixed Indigenous Probiotic Culture during Ripening.** T. Setyawardani, A. H. D. Rahardjo, & M. Sulistyowati

**Physical, Microbial, and Chemical Qualities of Dangke Produced by Different Temperatures and Papain Concentrations.** A. N. Mukhlisah, I. I. Arief, & E. Taufik

Registered in:

Scopus® DOAJ DIRECTORY OF OPEN ACCESS JOURNALS



# Media Pternakan

*Journal of Animal Science and Technology*

Accredited by Directorate General of Research and Development Strengthening,  
Ministry of Research, Technology and Higher Education of the Republic of Indonesia  
No: 36b/E/KPT/2016

---

Vol. 40 No. 1, April 2017

## PUBLISHER

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

## CHIEF EDITOR

Komang G. Wiryawan

## ASSOCIATE EDITORS

Tuti Suryati  
Sri Suharti

## EDITORIAL BOARDS

Abdul Razak Alimon (Malaysia) ~2019  
Anuraga Jayanegara (Indonesia) ~2019  
Arief Boediono (Indonesia) ~2019  
Armagan Hayirli (Turkey) ~2019  
Asep Gunawan (Indonesia) ~2017  
Beben Benyamin (Australia) ~2020  
Budi Santoso (Indonesia) ~2017  
Burhanudin Sundu (Indonesia) ~2017  
Cahyo Budiman (Indonesia) ~2017

Cece Sumantri (Indonesia) ~2019  
Elizabeth Wina (Indonesia) ~ 2020  
Epi Taufik (Indonesia) ~2017  
Irma Isnafia Arief (Indonesia) ~2019  
Jakaria (Indonesia) ~2017  
Jong K. Ha (Korea) ~2019  
Junichi Takahashi (Japan) ~2019  
Karl Schellander (Germany) ~ 2019

Kenji Fukuda (Japan) ~2019  
Loh Teck Chwen (Malaysia) ~ 2019  
Myunggi Baik (Korea) ~2018  
Nahrowi (Indonesia) ~2019  
Sri Mulatsih (Indonesia) ~2017  
Tadasu Urashima (Japan) ~2018  
Toto Toharmat (Indonesia) ~2017  
Wasmen Manalu (Indonesia) ~2017

## TECHNICAL EDITORS

Irma Nuranthi Purnama  
Widya Hermana

## SCOPE OF JOURNAL

Media Pternakan (MP) receives original manuscripts encompass a broad range of research topics in tropical animal sciences: breeding and genetics, reproduction and physiology, nutrition, feed sciences, agrostology, animal products, biotechnology, behaviour, welfare, health, livestock farming system, socio-economic, and policy.

Authors have to prepare the manuscripts according to MP's guidelines. Manuscript and statement of originality and copyright release form (Form A) should be submitted via online submission through journal website: <http://medpet.journal.ipb.ac.id/> or <http://journal.ipb.ac.id/index.php/mediapternakan>.

## ABOUT JOURNAL

Media Pternakan (MP) is a scientific journal published since 1967, and until now is consistently published three times a year in April, August, and December. MP is a peer reviewed journal which is registered in SCOPUS, Crossref, DOAJ, ASEAN Citation Index, CABI, EBSCO, Google Scholar, Science and Technology Index (SINTA), Indonesian Publication Index, and other scientific databases. MP already used Similarity Check to prevent any suspected plagiarism in the manuscripts.

## SECRETARIAT OF MEDIA PTERNAKAN

Faculty of Animal Science Building, Bogor Agricultural University  
Jalan Agatis, Kampus IPB Darmaga, Bogor 16680, Indonesia  
Phone/Fax: +62-251-8421692

e-mail: [mediapternakan@ipb.ac.id](mailto:mediapternakan@ipb.ac.id); [mediapternakan@yahoo.co.id](mailto:mediapternakan@yahoo.co.id)

website: <http://medpet.journal.ipb.ac.id/>; <http://journal.ipb.ac.id/index.php/mediapternakan>

**Subscription Rate** (Not including shipping and handling):

IDR 100.000/ edition and IDR 250.000/ year (Indonesian subscribers); 50 US\$ (Foreign subscribers)

Bank account: BRI KCP Kampus IPB No. 0595-01-005208-53-3, o.b. Media Pternakan, SWIFT CODE: BRINIDJA

# Media Petersnakan

## *Journal of Animal Science and Technology*

Accredited by Directorate General of Research and Development Strengthening,  
Ministry of Research, Technology and Higher Education of the Republic of Indonesia  
No: 36b/E/KPT/2016

---

### LIST OF CONTENT

<b>Isolation and Number of Gonadal Primordial Germ Cells (Gonadal PGCs) on the Stages of Early Embryonic Development of KUB Chicken.</b> S. Sopiñana, M. A. Setiadi, M. Fahrudin, & I. Supriatna	1
<b>Insulin-Like Growth Factor-I Concentration in the Follicular Fluid of Bali Cattle and Its Role in the Oocyte Nuclear Maturation and Fertilization Rate.</b> H. Hasbi, S. Gustina, N. W. K. Karja, I. Supriatna, & M. A. Setiadi	7
<b>Plant Growth Pattern, Forage Yield, and Quality of <i>Indigofera zollingeriana</i> Influenced by Row Spacing.</b> N. R. Kumalasari, G. P. Wicaksono, & L. Abdullah	14
<b>Supplementation of Zinc and Vitamin E on Apparent Digestibility of Nutrient, Carcass Traits, and Mineral Availability in Broiler Chickens.</b> T. F. Rayani, R. Mutia, & Sumiati	20
<b>Fermentation Characteristics and Nitrogen Retention of Madura Cattle Fed Complete Rations Containing Soybean Pod and By-Products.</b> K. G. Wiryawan, A. Saefudin, A. M. Fuah, R. Priyanto, L. Khotijah, & S. Suharti	28
<b>Isolation of Lactic Acid Bacteria with Cholesterol-Lowering Activity from Digestive Tracts of Indonesian Native Chickens.</b> H. Julendra, A. E. Suryani, L. Istiqomah, E. Damayanti, M. Anwar, & N. Fitriani	35
<b>Legume Wafer Supplementation to Increase the Performance of Post-Weaning Ettawa Grade Goats.</b> B. D. Dianingtyas, Y. Retnani, & D. Evvyernie	42
<b>Effectiveness of the Red Dragon Fruit (<i>Hylocereus polyrhizus</i>) Peel Extract as the Colorant, Antioxidant, and Antimicrobial on Beef Sausage.</b> F. M. Manihuruk, T. Suryati, & I. I. Arief	47
<b>Chemical Characteristics of Goat Cheese with Different Percentages of Mixed Indigenous Probiotic Culture during Ripening.</b> T. Setyawardani, A. H. D. Rahardjo, & M. Sulistyowati	55
<b>Physical, Microbial, and Chemical Qualities of Dangke Produced by Different Temperatures and Papain Concentrations.</b> A. N. Mukhlisah, I. I. Arief, & E. Taufik	63