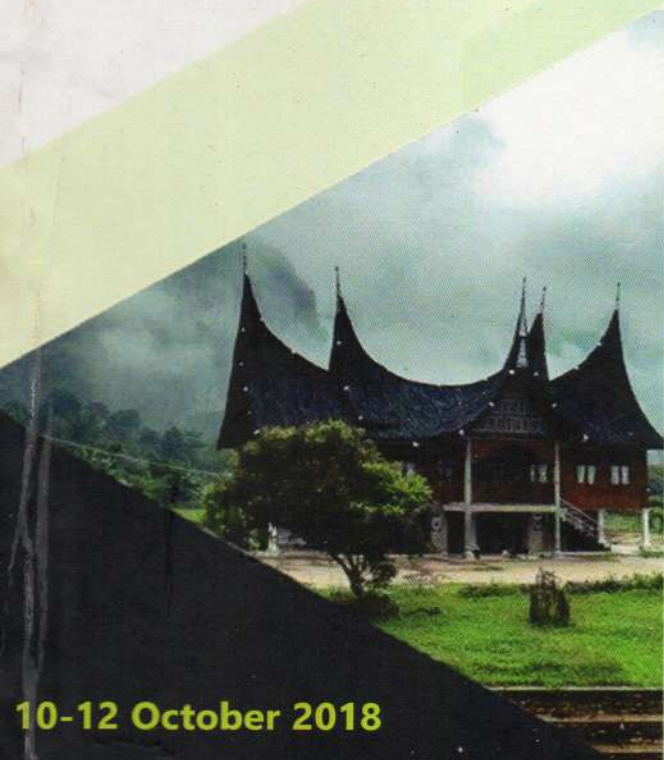


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THE 1ST INTERNATIONAL CONFERENCE
ON ANIMAL PRODUCTION FOR FOOD SUSTAINABILITY



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Kyriad Bumiminang Hotel, Padang
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**THE 1st INTERNATIONAL CONFERENCE ON ANIMAL
PRODUCTION FOR FOOD SUSTAINABILITY
(ICAPFS)**

The Future, Challenges, and Strategy for Animal Production

PROCEEDINGS

ABSTRACTS

**10-12 October 2018, Kyriad Bumiminang Hotel
Padang, West Sumatra-INDONESIA**



IOP
Publishing



Diterbitkan oleh :



The Future, Challenges, and Strategy for Animal Production

**PROCEEDINGS THE 1ST INTERNATIONAL CONFERENCE ON ANIMAL PRODUCTION FOR
FOOD SUSTAINABILITY (ICAPFS)**

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Layout:

Robi Amizar

First Published in 2018

21 x 29,7 cm; x, 159 pages

ISBN: 978-602-6953-42-1

Organized by Faculty of Animal Science Universitas Andalas

Publisher: Andalas University Press

Jl. Situjuh no.1 Padang-25129

No. Telp 0751-27066

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Contents

No.	Title	Page
Oral Presentation		
Keynote Speakers		
KS1	Genetic Diversity and Hereditary Disorders of Japanese Beef Cattle Tetsuo KUNIEDA	1
KS2	Implementation of Breeding Programme for Sustainable Livestock Production in Tropical Countries A. K. Thiruvankadan	2
KS3	Potency of Lactic Acid Bacteria Isolated From Indigenous Fermented Food Origin West Sumatera, Its Application for Feed Additive Yetti Marlida	4
KS4	Nutritional (Protein) Evaluation of Food Products Assoc. Prof. Dr. Nurul Huda	5
Nutrition, Feed Science, And Technology		
1012	Fermentation Characteristic with Addition of Jengkol (<i>Archidendron jiringa</i>) Peel Powder on <i>In Vitro</i> Desi Purnama Sari, Sulaila, Ade Ahmad Almas Pabengsyah Putra Gustari, M. Rofid Hibatullah, and Nur Hidayah	9
1019	Biological Evaluation of Some Plant Extracts as Feed Additive to Replace Antibiotic Growth Promoters Arnold Parlindungan Sinurat, Tresnawati Purwadaria, Tiurma Pasaribu, Tuti Haryati, and Tri Wardhani	10
1020	Evaluation of Coconut Husk Potential as Phytonutrients Source for Poultry Rusdi Rusdi, Asriani Hasanuddin, and Rosmiaty Arief	11
1023	The Effect of Biochar Utilization on First Ratoon <i>bmr</i> Sorghum Productivity as Forage Source on Swamp Soil Trisnah Ayuni Ridwan, Widhi Kurniawan, Natsir Sandiah, and Harapin Hafid	12

- 2009 Effect of Probiotics (EM-1) Addition on Quality Characteristics of Quail Meat 53
Nik Mohd Fadzli Nik Omar, Ahmad Syazni Kamarudin, and Nurul Huda

Animal Production and Technology

- 1002 The Risks of Gastrointestinal Nematode Infestation in Cattle Based on Maintenance Environment in Aceh Province 57
Zulfikar, Sayed Umar, Teuku Reza Ferasyi, and Maruf Tafsin
- 1003 Egg Production and Quality of Local Female Chicken by Dietary Self-Selection Reared Under Semi-Scavenging System in The Tropics 58
Syafwan and Noferdiman
- 1004 Effects of Replacing Soybean Meal with Fermented Leaves and Seeds of the Rubber Tree (*Hevea brasiliensis*) on The Production and Egg Quality of Kamang Laying Ducks 59
Erman Syahrudin, Rita Herawaty, and Azhar
- 1008 Differences of Antibody Titer to Avian Influenza and Hematology Profile on Local Ducks in Central Java 60
Ismoyowati, Diana Indrasanti, and Ibnu Hari Sulistyawan
- 1010 Genetic Polymorphisms of the OLR1 and DGAT1 Genes Associated to Milk Contents in Holstein Friesian Dairy Cattle Under an Intensive Management in Central Java 61
Anneke Anggraeni
- 1017 The Effect of Addition Sweet Orange Essential Oil and Penicillin InTris Yolk Extender to Simmental Liquid Semen Against Percentage Motility, Viability and Abnormalities ff Spermatozoa 62
Sukma Aditya Sitepu and Julia Marisa
- 1025 Supplementation of Various FSH Hormone Dosage on Quantity and Quality of Embryos Pesisir Cattle 63
Ferry Lismanto Syaiful, Tinda Afriani, and Endang Purwati
- 1026 Production Performance of Layer Japanese Quail that Given Citrit Acid as Acidifier 64
Astriana Napirah and Hamdan Has
- 1037 The Application of Deep Intracornual Artificial Insemination using Sexed Sperm to Produce Male Offsprings in Beef Cattle 65
Bayu Rosadi, Darmawan, Teguh Sumarsono, and Jalius

1095	The Optimization of Flavanoid Temulawak (<i>Curcuma xanthorrhiza</i> Roxb) and Zink Minerals in Preventing Heat Pressure at Tropical Temperatures in Sikumbang Janti Ducks Tertia Delia Nova, Yulia Yellita, and Rijal Zein	77
1101	Rumen Fluid's Characteristics and Digestibility Ration Based on Palm Oil Industry by Product and Rice Bran Ratio for Etawa Crossbred Dairy Goat Arief, S. Sowmen, and Rusdimansyah	78
1104	Performance of Crowing Kukuak Balenggek Chicken Based on Different Henroost Levels Under Intensive Management Firda Arlina, Dony Ahmad Yura, and Husmaini	79
1106	The Effect ff Altitude and Dietary Energy Levels on Performance of Bayang Ducks Sabrina, Firda Arlina, Husmaini, Sherly Fitria, and Intan Sari	80
1107	Characteristics and Morfometric Sperms of Pesisir Bull Jaswandi, Tinda Afriani, Mangku Mundana, dan Ediset	81
1114	The Effect of Probiotics <i>Lactococcus Plantarum</i> and Prebiotic Purple Sweet Potato (<i>Ipomoea Batatas</i> Sp.) on the Morphology and Microflora of Small Intestine of Male Kamang Ducks Husmaini, Rijal Zein, Zulkarnain, Refi Sartika, and Nurul Fatimah	82
1115	Effect of Electrical Stimulation and Freezing Duration on Physical Quality of Silverside Meat of Pesisir Cattle Khasrad, Rusdimansyah, and Nela Gusti Ermarice	83
1123	Growth Pattern of Layer Duck (<i>Anas domesticus</i>) Early Growing Period Through Protein Optimization Yan Heryandi, Rusfidra, Azhar, and Rijal Zein	84
1125	Combination of Giving Probiotic <i>Pediococcus pentosaceus</i> Origin in West Sumatra with Different Dosage and Frequency on Cholesterol Levels, Triglyceride and Villi Intestine in Duck Bayang (<i>Anas Spp</i>) Zulkarnain, Endang Purwati, Yose Rizal, Yan Heryandi, and Hendri Purwanto	85
2002	A Preliminary Study: The Occurence of Multi-drug Resistant Bacteria (MDRB) isolated from chicken farms at Kuala Selangor, Malaysia Rozila Alias, Mohd Nizam Lani, Zunita Zakaria, Norazah Mohammad Nawawi, Yusmi Mohd Yunus, and Abdul Latif Ibrahim	86

The Effect of Altitude and Dietary Energy Levels on Performance of Bayang Ducks

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ABSTRACT

The study was conducted to evaluate the interaction between altitude and dietary energy levels on performance of male Bayang ducks. The study used 120 ducks of male Bayang ducks 1 week old placed on 24 cages sized 60 cm x 50 cm x 75 cm. Ducks were maintained at medium (M) and low (L) altitude. The method used in this study was the experimental method, a split-plot experiment (Split Plot) 2x3 in Randomized Block Design with 4 groups of body weight as replications. The main plot consisted of 2 places (M and L) and subplot consisted metabolisable energy (ME) levels were 2700, 2900, 3100Kcal/kg. The variables measured were feed consumption, live weight, body weight gain, energy intake, feed conversion ratio (FCR), carcass weight, carcass percentage, abdominal fat percentage and income over feed cost (IOFC). The results of this study showed that there were no significant interaction ($P > 0.05$) between the altitude and energy levels on the consumption of rations, live weight, body weight gain, energy intake, feed conversion ratio, carcass weight, carcass percentage, abdominal fat percentage, while M and L altitude showed highly significant ($P < 0.01$) effect on feed consumption and no significant effect ($P > 0.05$) on other variables. The diet containing ME 2700 and 2900Kcal/kg consumed the ration higher than 3100Kcal/kg and no significant effect ($P > 0.05$) on body weight gain and others. Energy intake was higher at ration containing ME 3100Kcal/kg. The best IOFC results were obtained at energy level 2700 with a profit value of Rp. 11,602. The results of this study, can be concluded that to get a good performance of male Bayang ducks is reared at the medium altitude and the energy level of 2700Kcal/kg.

Key Words: Bayang Ducks, Altitude, Energy Levels, Performance