



Sustainable Livestock Production in the Perspective of
Food Security, Policy, Genetic Resources, and Climate Change

Proceedings Full Papers

10-14 November 2014, Yogyakarta, INDONESIA



The 16th AAAP Congress



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Ministry of Agriculture



Indonesian Society of Animal Sciences



Gadjah Mada University



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AAAP



Asian-Australasian Association of Animal Production Societies

Scope of AAAP: AAAP is established to devote for the efficient animal production in the Asian-Australasian region through national, regional, international cooperation and academic conferences.

Brief History of AAAP: AAAP was founded in 1980 with 8 charter members representing 8 countries—those are Australia, Indonesia, Japan, Korea, Malaysia, New Zealand, Philippines and Thailand. Then, the society representing Taiwan joined AAAP in 1982 followed by Bangladesh in 1987, Papua New Guinea in 1990, India and Vietnam in 1992, Mongolia, Nepal and Pakistan in 1994, Iran in 2002, Sri Lanka and China in 2006, thereafter currently 19 members.

Major Activities of AAAP: Biennial AAAP Animal Science Congress, Publications of the Asian-Australasian Journal of Animal Sciences and proceedings of the AAAP congress and symposia and Acknowledgement awards for the contribution of AAAP scientists.

Organization of AAAP:

- President: Recommended by the national society hosting the next biennial AAAP Animal Science Congress and approved by Council meeting and serve 2 years.
- Two Vice Presidents: One represents the present host society and the other represents next host society of the very next AAAP Animal Science Congress.
- Secretary General: All managerial works for AAAP with 6 years term by approval by the council
- Council Members: AAAP president, vice presidents, secretary general and each presidents or representative of each member society are members of the council. The council decides congress venue and many important agenda of AAAP

Office of AAAP: Decided by the council to have the permanent office of AAAP in Korea. Currently # 909 Korea Sci & Tech Center Seoul 135-703, Korea

Official Journal of AAAP: Asian-Australasian Journal of Animal Sciences (Asian-Aust. J. Anim. Sci. ISSN 1011-2367. <http://www.ajas.info>) is published monthly with its main office in Korea

Current 19 Member Societies of AAAP:

ASAP(Australia), BAHAB(Bangladesh), CAASVM(China), IAAP(India), ISAS(Indonesia), IAS(Iran), JSAS(Japan), KSAST(Korea), MSAP(Malaysia), MLSBA(Mongolia), NAS(Nepal), NZSAP(New Zealand), PAHA(Pakistan), PNGSA(Papua New Guinea), PSAS(Philippines), SLAAP(Sri Lanka), CSAS(Taiwan), AHAT(Thailand), AHAV(Vietnam).

Previous Venues of AAAP Animal Science Congress and AAAP Presidents

I	1980	Malaysia	S. Jalaludin	II	1982	Philippines	V. G. Arganosa
III	1985	Korea	In Kyu Han	IV	1987	New Zealand	A. R. Sykes
V	1990	Taiwan	T. P. Yeh	VI	1992	Thailand	C. Chantalakhana
VII	1994	Indonesia	E. Soetirto	VIII	1996	Japan	T. Morichi
IX	2000	Australia	J. Ternouth	X	2002	India	P. N. Bhat
XI	2004	Malaysia	Z. A. Jelani	XII	2006	Korea	I. K. Paik
XIII	2008	Vietnam	N.V. Thien	XIV	2010	Taiwan	L.C. Hsia
XV	2012	Thailand	C.Kittayachaweng	XVI	2014	Indonesia	Yudi.Guntara.Noor



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Remark from Chairman of the 16th AAAP Congress

Dear all of the scientists, delegates, participants, ladies and gentlemen,

As the host of the 16th AAAP Animal Science Congress, we do impress, thankful, and present a high appreciation for your participation in joining the 16th AAAP Conference in Yogyakarta, Indonesia. We can see the very great enthusiasm of all the scientists to solve livestock problems as well as to share valuable information and knowledge for human prosperity all over the world.

A large numbers of representatives are participating in this conference, which indicates that the interest in the field of animal science is continuously increasing among member countries. We have invited some Plenary Speakers and Invited Papers who are qualified as scientists and bureaucrats in animal science field to share their valuable information and knowledge. Other participants can deliver their precious research through oral and poster presentations. This congress is also paralleled to symposium held by livestock organization and institution as well as some academic meetings.

The theme of the 16th AAAP Congress is “Sustainable Livestock Production in the perspective of Food security, Policy, Genetic Resources and Climate Change”. We believe that animal production in Asia and Australasia has become important and strategic sector to provide high quality food, opening up job opportunities, as well as improving farmer’s welfare. Animal science societies, therefore, have to support this growing interest by providing more appropriate and relevant technologies to improve efficiency of resources utilization to produce more animal protein food by member countries. Long term sustainable livestock production will, therefore, be significantly influenced by the national food policy, climate change issues, as well as conserved environments and genetic resources.

On behalf of 16th AAAP Committee and all associates, we wish all of the participants having a great achievement of success and fulfill the expectation as well as enjoying the interaction with all scientists participating the Congress.

High appreciation we may acknowledge to all of sectors, especially for His Majesty of Royal Palace of Yogyakarta, Sri Sultan Hamengku Buwono X, and Rector of Universitas Gadjah Mada, who have concerned to facilitate the Congress site host. Special thank to the Steering Committee, Scientific Committee, Reviewers and Editorial Boards for their great contribution to make the Congress successfully organized.

To you, your excellencies, invited guests and delegates, thank you for choosing to come to this conference and to Indonesia. We hope the arrangements we have put in place meet with your requirements. We wish you fruitful deliberations and an intellectually and socially rewarding stay in Yogyakarta.

We are looking forward to meeting you all in the future congress to continue.

Terimakasih (Thank you)

Budi Gunthoro

Chairman of the 16th AAAP Congress

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16th AAAP PRESIDENT'S REPORT

Selamat pagi!

Dear Ladies and Gentleman

Attendants of 16 AAAP congress:

It is my great pleasure and honor to welcome all of you at The 16th AAAP Congress on November 10 – 14, 2014 at Grha Sabha Pramana, Universitas Gadjah Mada, Yogyakarta Indonesia. This Congress is jointly organized by The Indonesian Society of Animal Science (ISAS), Indonesian Agency for Agricultural Research and Development, Indonesian Directorate General of Livestock and Animal Health Services-Ministry of Agriculture and Faculty of Animal Science Universitas Gadjah Mada. Universitas Gadjah Mada Campus is located in Yogyakarta, one of the Special Region in Indonesia where culture and tradition live in harmony with the modern nuance and educational spirit makes it a beautiful venue of this Congress.

The 16th AAAP Program consists of scientific and technical programs as well as social and cultural activities. The scientific and technical programs offer five plenary sessions, two satellite symposia, field trip, and many scientific sessions, both oral and poster presentations.

During this event distinguished scientists from all over the world will present plenary papers ranging from livestock policy, food security, local genetic resources, climate change, animal welfare, international trade, as well as global research agenda. I believe that around 1,200 scientists as well as livestock producers, companies, graduate and postgraduate students from 40 countries are attending the Congress and more than 770 research papers will be presented. The Congress also provides not only opportunities to discuss and exchange information and experience with scientists from different regions of the world, but also a good environment to build up friendship between nations is our ultimate goals for the Congress outcome. Moreover, this congress also keeps its tradition to be a forum of communication among researchers, academicians, industries and related stakeholders among Asian-Australasian countries.

The social and cultural programs are specially designed to be very important for the congress participants since the promotion of friendship and future scientific cooperation are also central to this AAAP Congress. The Opening Ceremony will offer you the Congress Program at a glance. In addition, participants will also join at a warm Welcome Dinner gathering at Keraton Yogyakarta. Sri Sultan Hamengku Buwono X, His Majesty of The Royal Palace of Yogyakarta will give you the most memorable moment during this event.

Moreover, cultural night offers us an opportunity to introduce significant culture from participants' countries and gives a spectacular performance to enjoy in order to strengthen our friendship and future cooperation. Field trip, on the other hand, provides a wonderful sightseeing to the most valuable ancient heritage around Yogyakarta, such as Borobudur and Prambanan Temples, and more other interesting places to visit. I do hope that you enjoy your stay in Yogyakarta and not miss all of these spectacular opportunities.

Closing Ceremony will be held on November 14, 2014 immediately after the last session of presentation. During this great moment we will welcome the next host of the 17th AAAP Congress to deliver a brief message. The AAAP Congress Award will provide and announce some participant who receive appreciation for their valuable research.

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With all of our hospitality, we will try our best to make your brief visit to Yogyakarta and our beautiful country Indonesia, become a wonderful experience and memorable moments.

I wish you all a very pleasant and most enjoyable stay in Yogyakarta, Indonesia.

Terima kasih (Thank you).

Sincerely Yours
Mr. Yudi Guntara Noor
President
The 16th AAP Congress

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PREFACE

The proceedings of the 16th Congress of the Asian-Australasian Association of Animal Production Societies (AAAP) held on 10-14 November 2014 at Grha Sabha Pramana, Universitas Gadjah Mada, Yogyakarta, Indonesia, consist of two volumes. Those are Volume I of Plenary and Invited Papers and Volume II of Abstracts Contributed Papers. This is the second volume of the proceedings that contains a total of 754 abstracts, consist of 368 papers for oral presentation and 386 papers for poster. Papers were categorized into various disciplines, such as Nutrition and Feed Technology; Genetics and Reproduction; Physiology, Animal Welfare and Health Management; Product Technology and Food Safety; Waste and Environmental issues; Forage Agrostology; as well as Agribusiness, Marketing, Extension and Community Development. The scientific committee has initially received a total of 1,028 abstracts from 42 countries. After reviews have been made, 60 of them were rejected and 74 were cancelled by the authors. The reviewers consist of 4 international and 71 internal reviewers from 6 universities and 1 research institute in Indonesia. In the interest of time limitation for proceedings publication, we apologize for not including 140 submitted abstracts in the proceedings since they were not being followed up with full manuscripts until the extended due date we offered.

The scientific committee would like to thank all the reviewers and appreciate their effort to make significant contribution in reviewing the full manuscripts. Similarly, we would also like to thank supporting staffs at the secretariat office of the Faculty of Animal Science, Universitas Gadjah Mada as well as of the Indonesian Center for Animal Research and Development who have helped in the preparation of the proceedings. Finally, we would like to thank all the authors for their valuable contribution to the congress and make it useful for our societies.

Editorial Team

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B 432 MM	Effect of Tannin-Containing Tamarind Seed Meal and <i>Leucaena Leucocephala</i> on Gas Production of Diets <i>Khin Htay Myint, Aung Aung, Khin San Mu, Moe Thida Htun, Lwin Naing Oo, Min Aung and Tin Ngwe</i>	1727
B 449 KR	Effect of Heat Treated Soybean Meal on Starch Disappearance in the Gastrointestine of Hanwoo Steers <i>Y. K. Oh, D. H. Kim, S. C. Lee, M. J. Lee, S. H. Choi, Y. S. Lee, S. Arokiyaraj and K. H. Kim</i>	1731
B 472 JP	Chemical Composition and <i>in Situ</i> Dry Matter Degradability of Glutinous Brown Rice <i>T. Suzuki, K. Higuchi, and O. Enishi</i>	1735
B 482 ID	Rumen Degradation of Fermented and Unfermented of Palm Kernel Cake in Dairy Cattle <i>Y. Widiawati and E. Wina</i>	1738
B 489 ID	Antifungal Activities of Lactic Acid Bacteria against <i>Aspergillus flavus</i> , <i>A. parasiticus</i> and <i>Penicillium citrinum</i> as Mycotoxin Producing Fungi <i>Ema Damayanti, Rezcha Indriati Y., Langkah Sembiring, Hardi Julendra and Awistaros Angger Sakti</i>	1742
B 491 ID	Level Protein in Cow Dietary of Rice Straw Ammoniation Basis and Synchronize in Releasing N-Protein and Energy in the Rumen <i>Hermon, Jaswandi, Fauzia A, and Lily W</i>	1746
B 531 ID	Urea and Fish Meal Supplementation to Cocoa Pod Husk-Based Ration: Feed Efficiency Response <i>Wisri Puastuti and Dwi Yulistiani</i>	1750
B 576 ID	The Effect of Palm Kernel Cake Supplementation on the Body Weight Gain of Local Beef Cattle Fed Grass, Rice Straw and Oil Palm Frond Basal Diets <i>Abdullah Bamualim and Ratna A. Dewi</i>	1754
B 597 JP	Mining Genes Involved in Quorum Sensing System in the Rumen by Bioinformatics Analysis <i>Ghali Ines, Takumi Shinkai, and Makoto Mitsumori</i>	1758
B 603 ID	Effects of Ammoniated Sugar Beet Pulp by Different Levels of Ammonia and Added Enzyme on Parameters of In Vitro Gas Production <i>B. Sadighian and A. A. Naserian</i>	1762
B 605 ID	Determination Effects of Ammoniated Sugar Beet Pulp by Different Levels of Ammonia by Addition of Enzyme and Water on Parameters of In Vitro Gas Production <i>B. Sadighian, A. A. Naserian, R. Valizadeh and A. M. Tahmasebi</i>	1764

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B 622 ID	The Effect of Addition of Cellulolytic Microbes from Rumen Fluid and Lactic Acid Bacteria in Pineapple Peel Fermentation on <i>in Vitro</i> Digestibility <i>C. Hanim, L. M. Yusiati, and E. S. P. Dityas</i>	1766
B 633 JP	Effect of Cellooligosaccharide Feeding on the Growth Performance of Holstein Calves <i>S. Kushibiki, T. Hasunuma, H. Kobayashi, and H. Shingu</i>	1770
B 639 ID	The Effect of Fermentation with <i>Phanerochaete chrysosporium</i> to Nutritional and Fiber Content of Oil Palm Frond <i>Yanovi Hendri, U. Hidayat Tanuwiria, U. Santosa, and A. Bamualim</i>	1773
B 640 ID	Study on Feeding Concentrates on the Growth Performance of Brahman-Native Crossbred Bulls in Bangladesh <i>MM Rashid, AKFH Bhuiyan, MA Hoque and KS Huque</i>	1777
B 706 JP	Effects of Concentrate Level on Digestion and Nitrogen Use with Duodenal Methionine Infusion in Steers Consumed Ryegrass Silage Diets <i>K. Taniguchi, Z. Li, T. Shimizu, T. Obitsu, and T. Sugino</i>	1781
B 738 JP	Effects of Lactose and Casein on Plasma Glucagon-Like Peptide-1 (7-36) Amide Concentrations in Calves before Weaning <i>T. Sugino, M. Satoh, R. Fukumori, M. EL-Sabagh, T. Obitsu and K. Taniguchi</i>	1785
B 751 JP	Variation of Alcohol and Ester Contents in Round Bale Silage of Grass and Whole Crops <i>T. Obitsu, K. Hosoba, T. Sugino, K. Taniguchi, Andriyani Astuti, and M. EL-Sabagh</i>	1789
B 762 BR	Evaluation of Forage Particle Size Used <i>in Situ</i> Degradability Technique with Buffalo <i>R. Franzolin, H. B. Silva, D.C. Goldenberg, and T.C. Alves</i>	1792
B 776 ID	Effectively of Additional Feed Supplement on Daily Live Weigh Gain and Feed Conversion Ratio of Beef Cattle Ongole Generation <i>Suharyono, Zanuvar Faizal, Asih Kurniawati and Adiarto</i>	1795
B 780 JP	Preliminary Evaluation on Digestibility and the Relation to Morphology and Water Content of <i>Brachiaria</i> spp. <i>S. Thaikua, M. Ebina, K. Kouki, M. Inafuku, H. Akamine, K. Shimoda, K. Suenaga and Y. Kawamoto</i>	1799
B 782 JP	Effect of Cutting Height of the First Crop on the Regrowth of <i>Sorghum</i> spp <i>Yuriko IMAI, Yin Yin Kyawt, Sarayut Thaikua, Win Mi Htwe and Yasuhiro</i>	1803

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B 795 TH	The Study of Nutritive Values and <i>in Vitro</i> Gas Production of Jerusalem Artichoke with Pangola Hay as Roughage <i>Bhutharit Vittayaphattananurak Raksasiri, Thansamay Vorlaphim, Jiravan Khotsakdee, Siwaporn Paengkoum, and Pramote Paengkoum</i>	1807
B 797 TH	Effect of Manoy Leaf (<i>Cissampelos pareira</i>) in Goat Diets on <i>in Vitro</i> Nutrient Digestibility Using Gas Production Technique <i>Thansamay Vorlaphim, Chalermpon Yuangklang, Bhutharit Vittayaphattananurak Raksasiri, Jiravan Khotsakdee and Pramote Paengkoum</i>	1810
B 855 BR	Rumen Protozoa Population in Buffalo on Grazing and Supplemented with Concentrate Ration <i>R. Franzolin, T. S. Silva, M. C. Ernandes, A.V. Garcia, R. G. Rezende and H. Fernandes</i>	1813
B 856 MX	Effects of Exogenous Enzyme on <i>in Vitro</i> Gas Production and Degradability of Low Quality Forages <i>D. López, J.F. Vázquez-Armijo, A.Z.M Salem and J. Hernández-Meléndez</i>	1816
B 857 ID	<i>In Vitro</i> Digestibility of Aren (<i>Arenga pinnata</i> Merr.) Pith Waste Fermented by Xylanolytic Bacteria <i>A. Kurniawati, M. A. Pradani, Supadmo and C. Hanim</i>	1820
B 902 ID	Effects of Natural Clays Inclusion on Aflatoxin Excretion of Lactating Dairy Cows Regularly Fed Aflatoxin B1-Contaminated Diet <i>Ali Agus, Ika Sumantri, Tridjoko Wisnu Murti and Josef Boehm</i>	1823
B 914 LK	Rancidity Development in Common Feed Ingredients During the Storage Period in Tropical Climate <i>M. A. J. P. Munasinghe, R. M. A. S. Bandara, R.M.S.S. Rathnayaka and G. Weerakkody</i>	1827
B 933 JP	Effect of Dietary Crude Protein Levels on Performance During First Lactation and Lifetime Productivity of Growing Holstein Heifers <i>H. Oribe, K. Kawashima, T. Ishii, K. Akiyama and S. Kushibiki</i>	1831
B 943 ID	The Potential of Feed Availability in West Sumatera Region to Support Indonesian Beef Cattle Production <i>Rahmi Wahyuni and Wirdahayati R. Bakry</i>	1834
B 944 ID	The Effect of Difference in Total Digestible Nutrients Level on <i>in Vitro</i> Fermentation Characteristics by Rumen Microbes <i>Gyeong-Geun Lee, Hyun-Ju Kim, Seung-Uk Lee, Seong-Ho Choi, Man-Kang Song and Jin-Ho Cho</i>	1838

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B 945 KR	Studies of Various TMRs on the Characteristics of Ruminal Fermentation and Degradability by Rumen Microbes <i>Seung-Uk Lee, Keung-Geong Lee, Hyun-Ju Kim, Mang-Kang Song and Jin-Ho Cho</i>	1843
B 948 ID	Improving Tropical Forages Nutritive Value Using Various Alkali Treatments <i>Cuk Tri Noviandi</i>	1847
B 953 IR	Evaluation of Antioxidative Efficacy of Treated Linseed <i>Using in Vitro</i> Rumen Culture <i>J. Amini, M. Danesh Mesgaran, A.R. Vakili and A.R. Heravi Moussavi</i>	1851
B 983 ID	Using DVE/OEB System to Predict Protein Value of Soybean Meal, Yasmino Max [®] and Fishmeal for Ruminants <i>M. Danesh Mesgaran, P. Kheyrandish, E. Parand and A.R. Vakili</i>	1855
B 984 MY	<i>In Vitro</i> Digestibility and Nutritional Content of Rice Straw Treated with Urea and Effective Micro-Organisms (EM) <i>N. A. Roslan, S. F. Hamzah, H. Yaakub and A. A. Samsudin and A. R. Alimon</i>	1858
B 997 KR	Proteomic Analysis Reveals Proteins Involved in Milk Protein Synthesis in Bovine Mammary Gland <i>Seung-Woo Jeon, T. Wang, Jae-Sung Lee, Min-Jeong Kim, U-Suk Jung, Won-Seob Kim and Hong-Gu Lee</i>	1862
B 1062 IR	Evaluation of Raw Bitter Vetch (<i>Vicia ervilia</i>) Nutritive Value Using Chemical Composition, in Sacco and in Vitro Techniques in Ruminant <i>R. Valizadeh, M. Yari, S. E. Ghiasi and M. Mojtahedi</i>	1866
B 1068 JP	Palatability Evaluation of Feed for Beef Cattle Including Soybean Curd Residue and Soy Sauce Cake <i>K. Yasuda, K. Oishi, Y. Hirooka, M. Kitagawa, T. Tamura and H. Kumagai</i>	1870
B 1074 JP	Effects of Feeding Desalted Mother Liquor from Seasoning Process on Blood Metabolites and Ruminal Fermentation in Thai Native Bulls <i>T. Sakai, W. Anghong, M. Takeda, T. Suzuki, K. Oishi, H. Hirooka and H. Kumagai</i>	1874
Small Ruminant		
B 124 TR	The Effect of the Compensatory Growth on Weaned Lamb Fattening Performances and Feed Choice <i>İ. Şenöz, M. N. Rofiq and M. Görgülü</i>	1877

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B 192 TH	Effect of Soybean Oil Supplementation on Conjugated Linoleic Acid Contents and Milk Quality in Dairy Goat <i>Sasipron Cholomyai, Chaianan Racho and Udorn Srisaeng</i>	1881
B 332 ID	Usage of Sago Waste as Component of Complete Feed for Growing Boerka Goats <i>Kiston Simanihuruk, Antonius and Juniar Sirait</i>	1885
B 402 ID	Effect of Different Protein and Energy Levels in Concentrate Diets on Anglo-Nubian Young Goat Performance <i>Supriyati, L. Praharani, IGM Budiarsana and I-K. Utama</i>	1890
B 474 TH	Effects of Supplementing Dietary Neem Foliage on Protozoan Population in the Rumen and Faecal Nematode Egg Excretion in Meat Goats <i>S. Srisaikham, P. Paengkoum and W. Suksombat</i>	1894
B 532 ID	Nutrition Status of Female Bligon Goat Fed Diets Containing Undegraded Protein Supplement <i>Ahmad Iskandar Setiyawan, Kustantinah, Subur Priyono Sasmito Budhi, Zuprizal and Nanung Danar Dono</i>	1898
B 743 ID	Application of Total Mixture Forages Silage on Sheep Farming: Bean Sprouts Addition and Controlled Internal Drug Release Vaginal Insertion on Sheep Reproduction <i>Zaenal Bachruddin, Dodo Ramadhan, Yusuf Candra Kurnia, Edi Suryanto, Ismaya and Lies Mira Yusiati</i>	1902
B 800 TH	Effect of Sunflower Oil and Nitrate on Rumen Nutrient Digestibility in Meat Goats Fed Low Quality Roughage Using Gas Production Technique <i>Jiravan Khotsakdee, Chalermpon Yuangklang, Thansamay Vorlaphim, Bhutharit Vittayaphattananurak Raksasiri and Pramote Paengkoum</i>	1906
B 845 DZ	Clay in the Feeding of Ewes: Effect on the Quality of Milk and Blood Parameters <i>Meredef Aissa, Ouachem Derradji, Soltane Mahmoud and Dehimi Mohamed Laziz</i>	1910
B 881 MY	Effect of Different Levels of <i>L. leucocephala</i> and <i>M. esculenta</i> Leaves on Urinary Purine Derivatives of Goats <i>Liyana, A. H., Alimon, A. R. and Samsudin, A. A.</i>	1914
B 915 ID	Fermentation Characteristics and Aerobic Stability of Triticale Silage Treated with Formic Acid or a Mixture of Formic and Propionic Acids <i>A. R. Vakili, M. Danesh Mesgaran and A. Hodjatpanah-Montazeri</i>	1918

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B 999 JP	Effect of Sodium Percarbonate on Methane Emission, Nutrient Digestibility, and Rumen Fermentation in Sheep <i>Takehiro Nishida and Yudai Nagano</i>	1922
B 1058 MY	Effects of Dietary Oils with on Rumen Fermentation in Goats <i>A. Ibrahim, A.R. Alimon, A.A. Samsudin, H. Yaakub, N. Abdullah and M. Ivan</i>	1926
B 1067 ID	Biscuit of <i>Carica papaya</i> L. and <i>Indigofera Sp</i> Leaf for Increasing Milk Production and Quality of Dairy Goat <i>Yuli Retnani, Idat Galih Permana, Nur R. Kumalasari, Rina Roslina and Amalia Ikhwanti</i>	1930
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B 16 TH	Effect of Nucleotides Supplementation in Diets on Growth Performance of Broiler Chickens <i>R. Lertpatarakomol, P. Jaipeng, K. Rojanamongkol, K. Paditporn and J. Mitchaothai</i>	1934
B 99 TW	Study on Egg Quality and Antioxidant Status of <i>Pleurotus eryngii</i> Stalk Added in Laying Hens Diet <i>Tzu-Tai Lee, Chiao-Chun Wang, Zuo-Mu Huang and Bi Yu</i>	1937
B 114 TW	Establishing the Crude Protein and Metabolizable Energy Requirements of Brown Tsaiya Ducks during Laying Period <i>J. H. Lin, Y. A. Lin, C. H. Cheng, C. H. Su, and J. F. Huang</i>	1940
B 140 TH	Study on the Optimum Level of replacement Passion Fruit Husk with Corn Meal in Diet on Hen Production <i>Phonmun T, and T. Subanarat</i>	1943
B 155 ID	Physiological Responses of Broiler Chickens Fed Native Gedi Leaves (<i>Abelmoschus manihot</i> (L.) Medik) at High Ambient Temperature <i>Jet S. Mandey, Hendrawan Soetanto, Osfar Sjojjan, and Bernat Tulung</i>	1946
B 255 TH	Effect of Dietary Nucleotides on Intestinal Morphology of Broiler Chickens <i>K. Paditporn, J. Mitchaothai, K. Rojanamongkol, P. Jaipeng and R. Lertpatarakomol</i>	1950
B 370 TW	Effect of Feed Restriction During Rearing Period on the Testicular Growth Modifications in White Roman Geese <i>S.D. Wang, C.C. Hsiao, C.M. Wang, Y.S. Jea, and J.W. Liao</i>	1954
B 412 DZ	Effects of Marl and Kaolin on Growth Performances, Digestive Efficiency and Wet Droppings of Broiler Chickens <i>D. Ouachem, A. Meredef, A. Kalli, N. Kaboul, A. Mehdaoui, and Z. Ahmed Gaid</i>	1958

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B 494 TW	Effect of Early Feeding on Growth Performance in Chinese Goose Goslings <i>C. C. Hsiao and Y. S. Jea</i>	1962
B 645 TW	Growth Performance of Taiwan Country Chickens Fed on Maggot Meal in Place of Fish Meal <i>Tzung-Cheng Tasi, Kai-Ming Chen, Liang-Chuan Lin, and Hsin-I Chiang</i>	1965
B 672 ID	The Effects of <i>Cosmos caudatus</i> Kunth Leaves in the Diet on Carcass Percentage, Internal Organs and Cholesterol Content of Native Chicken <i>R. Mutia, I. Irfai, and D. Diapari</i>	1968
B 720 TH	Growth Performance, Carcass Percentage and Cost of Thai Native Chicken (Pradu-Handam and Chee) Raised by Broiler Diet and Layer Diet <i>N. Suayroop, B. Laopaiboon, W. Boonkum and M. Duangjinda</i>	1971
B 728 MY	Serum Biochemical Properties of Broiler Chickens Fed Diet Supplemented with <i>Orthosiphon stamineus</i> <i>Malahubban M, Alimon A.R, Sazili A.Q, Fakurazi S and Zakry F.A.A</i>	1975
B 729 ID	Effects of High Crude Fiber and Various Levels of Protein in the Diet on the Performance of EPMp Broiler Ducks at 10 Weeks <i>Maijon Purba and L. Hardi Prasetyo</i>	1980
B 766 ID	The Effect of Utilization Chitosan-Turmeric Extract in the Diet of Broiler Chicken As An Immunomodulator <i>Ari Kusuma Wati, Zuprizal, Supadmo, and Sundari</i>	1984
B 788 TW	Effects of Dietary Supplementation of Sorghum Distillery Residue and Its Solid Fermented Product on Growth Performance and Immune Response in Broilers <i>P. H. Lin, Y. T. Chen, F. C. Tsai, S. M. Lee, and I. H. Chen</i>	1987
B 853 NG	Growth Performance and Organoleptic Properties of Broilers Fed Rumen Filtrate Fermented Shea Nut (<i>Vitellaria paradoxa</i>) Meal <i>D. N. Tsado and J. Akinwolere</i>	1991
B 868 KR	Effects of Lysophospholipids on Growth Performance, Nutrient Digestibility, Blood Profiles and Carcass Traits in Broilers <i>Y.K. Hyun, W. Boontiam, Y. J. Ji, L. H. Fang, H. J. Kim and Y.Y. Kim</i>	1995
B 872 KR	Effects of Gromax® Supplementation on Growth Performance, Carcass Traits, Blood Profiles and Secretion of IGF-1 in Broiler Chickens <i>J. S. Hong, G. I. Lee, J. M. Kim, H. S. Choi and Y. Y. Kim</i>	1999

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B 937 KR	Effects of Dietary Supplementation of Anti- <i>Clostridium perfringens</i> Bacteriophage on Growth Performance, Carcass Characteristics and Fecal Microbial in Broilers <i>Hyun-Ju Kim, Seung-Uk Lee, Keung-Geong Lee, Mang-Kang Song, In-Ho Kim and Jin-Ho Cho</i>	2002
B 957 LK	Effect of Phytase Enzyme on Phosphorous Availability of Broiler and Breeder Rations <i>M. A. J. P. Munasinghe, R. M. A. S. Bandara, B.C. Gallawattage and G. Weerakkody</i>	2005
B 1018 TW	Effect of Pelleting of Two Stage Fermented Process on Feed Composition, Broiler Growth Performance and Nutrition Digestibility <i>R. H. Yeh and K. L. Chen</i>	2008
B 1019 TW	Two Stage Fermented Process Improved Standardized Ileal Amino Acid Digestibility of Feather Meal in Broilers <i>K. L. Chen and R. H. Yeh</i>	2012
B 1021 KR	Effect of Dietary Lutein Supplementation on Lutein Concentration in Egg Yolk and Egg Quality <i>S. H. Jang, S. Aditya, J. H. Min, W. S. Siau, S. H. Byun, M. Ahammed and S. J. Ohh</i>	2016
B 1023 KR	Effect of Dietary CTCzyme® Supplementation on Broiler Performance Andde Novo Gut MOS Formation <i>S. Aditya, S. H. Jang, J. H. Min, W. S. Siau, J. H. Lee, M. Ahammed and S. J. Ohh</i>	2020
B 1027 TW	Metabolizable Energy of Local Grown Cassava in Taiwan and the Feasibility in Replacement for Corn in Broiler Feedstuff <i>S.R. Lee, L. Ananda, Y.H. Chen, B.H. Lin and S.Y. Wang</i>	2024
B 1028 LK	Effect of Packing Material on The Quality of Broiler Finisher Feed During the Storage in Tropical Climatic Condition <i>M. A. J. P. Munasinghe, R. M. A. S. Bandara, K. G. J. Priyadarshana and G. Weerakkody</i>	2028
B 1060 TD	Effect of <i>Curcuma domestica</i> Stock Solution on Layer Performance, Egg Quality, and Antioxidant Activity <i>Yuli Frita N, H. L. Chang, M. J. Lin, and E. Widodo</i>	2032
B 1089 TW	Effect of Different Environmental Temperatures on Heat Production, Excretion of CO ₂ and N ₂ O from non-producing Layer <i>I L. Hung and L. C. Hsia</i>	2036
B 1090 TW	Effect of Different Enzyme Supplementation on the Heat Production, Excretion of CO ₂ and N ₂ O from Broilers <i>I L. Hung and L. C. Hsia</i>	2038

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B 1098 TW	Effects of Environmental Temperature and Dietary Methionine and Tryptophan in Broiler Feed on Amino Acids and Fatty Acids of Carcass <i>N. H. Chiu and L. C. Hsia</i>	2040
B 1103 MY	Effect of Candlenut Kernel Meal on Growth Performance and Feed Efficiency of Broiler Chickens <i>A.R. Rohaida, A. R. Alimon and A. Q. Sazili</i>	2043
B 1113 ID	Characteristics of Feed Supplement Containing Lingzhi (<i>Ganoderma lucidum</i>), Organic Chromium and Roasted Soybean at High Temperature and Humidity Storage <i>D. Evvyernie, E. Styaningrum, and J. Jachja</i>	2046
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B 19 EC	Effect of Garlic and Ginger Supplemented Diets on Rabbits Performance, Carcass and Blood Constituents <i>H. S. Zeweil, S. M. Zahran, M. H. Ahmed, W. M. Dosoky, Yasmin El-Gendy and S. Saleh</i>	2050
B 57 KR	Effect of Tapioca on Growth Performance and Meat Characteristics in Growing-Finishing Pig <i>Sung-Back Cho, Md. Jahangir Alam, Lovelia L. Mamuad, Seon-Ho Kim, Chang-Dae Jeong, Bang-Geul Kim, Ok-Hwa Hwang, Ha Guyn Sung and Sang-Suk Lee</i>	2054
B 58 KR	Effect of Tapioca Levels on Odor Mitigation in Growing-Finishing Pigs <i>Sung-Back Cho, Md. Jahangir Alam, Lovelia L. Mamuad, Seon-Ho Kim, Chang-Dae Jeong, Seung-Hun Kim, Ok-Hwa Hwang, Ha Guyn Sung and Sang-Suk Lee</i>	2058
B 162 TW	Study on Late Pregnant Sow Feed Probiotic and Herb to Affect of Growth Performance and Fecal Score Diarrhea Incidence on Suckling Pig <i>Bi Yu, Pao-Cheng Chang and Tzu-Tai Lee</i>	2063
B 394 KR	Effects of Period of Feeding Concentrated Feed to Fattening Horses' Productivity <i>Hyun-Seok Chae, Nam-Young Kim, In-Chul Cho, Sang-Rae Cho, Won-Mo Cho, Yong-Sang Park, Aera Jang, Pil-Nam Seong, Jai-Hoon Woo, Moon-Suck Ko and Nam-Gun Park</i>	2067
B 395 KR	Evaluation of Period of Feeding Concentrated Feed to Fattening Horses' Meat Quality <i>Hyun-Seok Chae, Nam-Young Kim, In-Chul Cho, Sang-Rae Cho, Won-Mo Cho, Yong-Sang Park, Aera Jang², Pil-Nam Seong, Jai-Hoon Woo, Moon-Suck Ko and Nam-Gun</i>	2070

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Characteristics of Garut Lamb Fed Ration Containing Sunflower Seed Oil

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ABSTRACT

Sunflower seed oil (SSO) is a source of essential fatty acid, linoleic fatty acid, known has a good effect on reproductive performance, but the information about its effect on lamb quality of local sheep is still limited. This research was conducted to evaluate effect of SSO as a source of linoleic fatty acid in ration on local lamb characteristics. Six male Garut sheep about 2 mo old were divided into 3 group of ration treatments: without SSO (control), SSO 4%, and SSO 6%, with each two replications. The study was arranged in complete random design and analysed descriptively. After 3 mo feeding treatment, physical (water holding capacity, tenderness, and cooking losses) and chemical (pH, moisture, fat content, and thiobarbituric acid reactive substances/TBARS value) characteristics of lamb samples were analyzed. The result showed that the pH value and water holding capacity (WHC) of lamb fed ration containing SSO were higher than control. On the contrary, SSO treatment resulted in lower cooking loss than control without effect on tenderness of lamb. The SSO treatments in this research didn't result in high potency rancidity on lamb indicated by low TBARS values. In conclusion, the use of 4% and 6% of SSO on ration give a good effect on lamb characteristics with low rancidity potency.

Key Words: Garut lamb, Sunflower seed oil, Lamb characteristic

INTRODUCTION

Sunflower seed oil (SSO) is a source of essential fatty acid, linoleic fatty acid (Jeronimo et al. 2009), known has a good effect on reproductive performance since it is a substrate for the synthesis of PGF2 α (Funston 2004). Jeronimo et al. (2009) reported that sunflower oil resulted higher conjugated linoleic acid content of lamb than linseed oil. The use of sunflower seed had no effect on growth performance, carcass characteristics (Santos-Silva et al. 2003; Badee and Hidaka 2013), pH, colour, WHC, WBSF and sensorial attributes (Santos-Silva et al. 2003) of lamb. The information about effect of SSO on lamb meat quality of local sheep including lamb fat is still limited. This research was conducted to evaluate effect of SSO as a source of linoleic fatty acid in ration on Garut local lamb characteristics.

MATERIALS AND METHODS

Experimental sheep, feed, and sample preparation

Six male Garut sheep about 2 mo old were fed ration concentrate with different level SSO as source of linoleic acid fatty acid (Table 1) and the same level of grass *Brachiaria humidicola*. Nutrient composition diets was shown in Table 2. Water and diets were given *ad libitum*. The sheep were divided into 3 group of ration treatments: without SSO (control), 4% SSO, and 6% SSO, with each two replications. The study was arranged in complete random design and analysed descriptively. The sheep were slaughtered after 3 mo feeding treatment. Samples for physical and chemical analyses were prepared from *Longissimus thoracis et lumborum* muscle of left carcass.

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Table 1. Composition of concentrate rations with different level of sunflower seed oil

Diets Component	Ration Treatment ^a		
	R0	R1	R2
	%DM ^b		
Cassava meal	34.3	30.1	27.6
Coconut meal	57.1	57.1	57.1
Soyabean meal	6.4	6.4	6.6
Sunflower seed oil	0.0	4.0	6.0
CaCO ₃	0.7	0.7	0.7
Salt	0.7	0.7	0.7
Premix	0.7	0.7	0.7

Note: ^aR0 = ration without sunflower seed oil (control); R1 = ration with 4% sunflower seed oil; R2 = ration with 6% sunflower seed oil; DM^b = dry matter.

Table 2. Nutrient composition of concentrate ration with different level of sunflower seed oil and Grass^a

Nutrient	Feed Treatment		
	Concentrate Ration ^b		
	R0	R1	R2
	%DM ^c		
Dry matter	86.99	87.00	87.16
Crude protein	21.40	19.95	20.41
Ether extract	3.79	7.49	8.05
Crude fiber	7.59	8.13	8.64
NFE ^d	60.80	58.02	57.26
TDN ^e	70.00	73.00	74.00
Ca	0.97	1.07	0.98
P	1.07	0.89	0.88

Note: ^aAnalysed by Laboratory Feed Science and Technology, Bogor Agricultural University (2012); ^bR0 = ration without sunflower seed oil (control); R1 = ration with 4% sunflower seed oil; R2 = ration with 6% sunflower seed oil; DM^c = dry matter; NFE^d = nitrogen free extract; TDN^e = total digestibility nutrient.

Variable analyses

Variables analysed covered pH value, water holding capacity (WHC), tenderness, cooking loss, moisture, fat content and potential rancidity. Value of pH was measured using meat pH meter Hanna HI 99163 (Romania, Europe). WHC was determined using Hamm method represented as percentage of free water of 0.3 g lamb pressed between 2 pieces of Whatman 41 by 35 kg force for 5 min. Tenderness was determined using Warner-Bratzler shear force (WBSF) method represented as kg/cm². WBSF and cooking loss were evaluated following procedure as described by Suryati *et al.* (2004c). Moisture and fat content of lambs were analysed according to AOAC procedure (2005). Potential rancidity was determined using thiobarbituric acid reactive substances (TBARS) analysis procedure as described by Sorensen and Jorgensen (1996), and its sample preparation using modified distillation method as described by Suryati *et al.* (2014a). TBARS value was determined using 1,1,3,3-tetraethoxypropane (TEP) purchased from Sigma (Sigma Aldrich Co., USA) as standard and it was represented as mg MDA/100 g samples. TBA compound was purchased from Merck (Merck KGaA, Germany).

RESULT AND DISCUSSION

The pH value and WHC of lamb fed ration containing SSO at level 4% and 5% were higher than control (Table 3), but still in normal pH range of meat (5.3-5.8) (DSN, 1995). WHC indicated by percentage of free water had negative correlation with cooking loss, except for treatment 4% level of SSO. The higher percentage of free water indicated the lower WHC. Cooking loss of lamb treated by ration with SSO at level 4% and 6% were lower than

control (Tabel 3). The level of SSO treatment had no effect on tenderness (Tabel 3). The tenderness of lamb in this trial ranged from 3.35 to 3.40 kg/cm². This result was in line with previous study demonstrated that the use of n-6 fatty acids source had no effect on meat tenderness (Santos-Silva et al. 2003; Jeronimo et al. 2009). Suryati et al. (2008b) reported that WBSF ranged from 3.3 to 5 kg/cm² was tender category range, thus the WBSF of lamb in this trial was categorized tender. This phenomenon was probably caused by the age of lamb that were still under 6 mo correlated with less of connective tissue and enzymatic activity, such as calpain and calpastatin (Veiseth et al. 2004).

Table 3. Physical characteristics of lamb fed ration concentrate containing different level of sunflower seed oil

Variables	Ration Treatment ^a		
	R0	R1	R2
Meat pH	5.30±0.22	5.84±0.16	5.86±0.08
Percentage of free water (%)	35.44±7.70	30.56±6.25	32.83±0.80
WBSF ^b (kg/cm ²)	3.35±0.35	3.40±1.13	3.35±0.49
Cooking loss (%)	36.91±0.45	34.43±1.98	32.50±4.02

Note: ^aR0 = ration without sunflower seed oil (control); R1 = ration with 4% sunflower seed oil; R2 = ration with 6% sunflower seed oil; ^bWBSF = Warner-Bratzler shear force.

The use of 4% and 6% SSO level in concentrate ration increased moisture and fat content of lamb (Table 4). These indicated that the fat catabolism and anabolism in lamb fed ration containing SSO in this study were higher than control. The high fat catabolism was indicated by high lamb moisture content as a result of fatty acid oxidation, and the high fat anabolism was indicated by high lamb fat content. The high fat metabolism rate in this case was correlated with fast growth phase of young lamb (under 5 mo). Although the lamb fed ration containing SSO contained high fat, the oxidation rate of lamb was still lower than control (Table 4). This was indicated by lower TBARS value reflecting potential rancidity (Campo et al. 2006). The high WHC in lamb treated by SSO probably inhibited oxidation process depended on free water to hydrolyze fatty acid from triglyceride as an early phase of oxidation.

Generally, the use of ration concentrate containing SSO was increased pH value, WHC, and decreased cooking loss, without resulted tough lamb. This treatment also increased moisture and fat content without increased potential rancidity. This experiment suggested that the use of SSO at 4% and 6% level in the ration gave good characteristics of lamb under 5 mo old.

Table 4. Chemical characteristics of lamb fed ration concentrate containing different level of sunflower seed oil

Variables	Ration Treatment ^a		
	R0	R1	R2
Moisture (%)	70.14±2.33	70.74±3.01	75.64±0.48
Fat (%)	3.31±1.19	4.81±0.11	4.23±0.91
TBARS value ^b (mg /100g)	4.087x10 ⁻³	3.724x10 ⁻³	3.403x10 ⁻³

Note: ^aR0 = ration without sunflower seed oil (control); R1 = ration with 4% sunflower seed oil; R2 = ration with 6% sunflower seed oil; ^bTBARS = thiobarbituric acid reactive substances.

CONCLUSION

In conclusion, the use of 4% and 6% of SSO on ration give a good effect on lamb characteristics with low rancidity potency.

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