



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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Gadjah Mada University



Indonesian Society of Animal Sciences



Ministry of Agriculture



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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, academician, 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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A 375 KR	Production of <i>Alpha1,3-Galactosyltransferase</i> Null Pig Expressing Membrane Cofactor Protein <i>Keon Bong Oh, Seongsoo Hwang, Jeong-Woong Lee, Sun-A Ock, Dae-Jin Kwon and Seok Ki Im</i>	1604
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A 698 KR	Evaluation of Parity and Litter Size Trends among Landrace and Yorkshire Swine Breeding Farms <i>M. Jang, B. M. Lopez, H. S. Kang, H. S. Kim, Y. H. Kim, K. C. Nam and K. S. Seo</i>	1632
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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 TH	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 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 Sjoffjan, 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 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
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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
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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 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
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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
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Influence of Different Supplemental Niacin Forms on Production Performance of Dairy Cows: A Meta-Analysis

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ABSTRACT

Niacin is occasionally supplemented into dairy cows' ration to improve their production performance especially during early lactation period. Such supplementation can be done either in the form of nicotinic acid (NA) or nicotinamide (NM). The present study is aimed to assess which form of niacin is most effective in relation to the performance of dairy cows through a meta-analytical study. A database was constructed from published literatures reporting niacin supplementation on dairy cows. A total of 61 studies from 49 published articles were integrated into the database. Different niacin forms, i.e. NA or NM, either unprotected or protected at various supplemental levels were specified. Nutrient intake, rumen fermentation parameters, blood profiles, milk production and milk composition were integrated as well. Data were analyzed by a mixed model methodology in which different studies were treated as random effects whereas niacin forms (control, NA, NM) were treated as fixed effects. Significance of an effect was stated when $P < 0.05$. When a parameter showed $0.05 < P < 0.1$, then the effect was considered to have a tendency to be significant. Results revealed that, in contrast to our expectation, NA or NM supplementation did not significantly improve 4% fat-corrected milk production (FCM) than that of control. Levels of β -hydroxybutyric acid (BHBA) in blood plasma for control, NA and NM were 116.9, 97.9 and 102.7 mmol/l, respectively. Effects of NA or NM supplementation were insignificant for rumen fermentation parameters (volatile fatty acids and ammonia) as well as for milk quality (milk protein, milk fat, solid non fat and total solid).

Key Words: Meta-analysis, Niacin form, Dairy cow.

INTRODUCTION

Dairy cows during early lactation are usually suffered from negative energy balance due to much lower energy intake as compared to the energy for milk production. A function of niacin is to decrease the negative energy balance in dairy cows by intensifying energy generation processes. By this, the mobilization of fatty acid from adipose tissue is limited so that ketosis, a metabolic disorder, can be prevented. It has been shown that niacin is antilipolytic in adipose tissue and decrease plasma non-esterified fatty acid (NEFA) (Jaster et al., 1983). Niacin can be synthesized by microbes in the rumen but in very small amounts, so supplemental niacin in ration is required. Niacin is a vitamin B3 consisted of two forms, namely nicotinic acid (NA) and nicotinamide or niacinamide (NM). NA is rapidly converted to nicotinamide adenine dinucleotide (NAD) and then hydrolyzed to NM. The difference between NA and NM is the affinity for receptor GPR 109A. The function of GPR109A is to increase ATP concentration in the liver by promoting fatty acid oxidation or by decreasing gluconeogenesis (Morey et al., 2011). The present study is aimed to assess which form of niacin is most effective in relation to the performance of dairy cows through a meta-analytical study.

MATERIALS AND METHODS

General: The data set was developed from published literatures reporting addition of niacin at different forms on nutrient intake, blood profiles, rumen fermentation, milk yield and composition. A literature search was conducted using data search generators, such as Google Scholar, Scencedirect and Scopus to collect articles with the key words “niacin” and “dairy cows”. Accordingly, different niacin forms were specified in the database. Inclusion criteria for articles to be included in the database were: (1) articles were published in English, (2) supplementation was given to dairy cows during postpartum condition, and (3) experiments were conducted *in vivo*. The complete data set was obtained from 61 studies (49 published articles) with the above-mentioned keywords in which the articles were published from 1981 to 2013.

Statistics: The data obtained were subjected to a statistical meta-analysis based on mixed model methodology (St-Pierre, 2001). The fixed effect was niacin forms and the random effect was the study from various experiments. Significance of an effect was stated when the P-value < 0.05. When P-value lied between 0.05 to 0.1, the effect was considered as tendency to be significant. All statistical analyses were performed by using SAS Software version 9.1 (SAS Institute Inc., 2008).

RESULTS AND DISCUSSION

The effects of niacin forms supplementation on dry matter intake (DMI), dry matter digestibility (DMD), organic matter digestibility (OMD), crude protein digestibility (CPD), neutral detergent fiber digestibility (NDFD) and acid detergent fiber digestibility (ADFD) of dairy cows are shown in Table 1. There were no significant differences between NA or NM supplementaion with control in DMI, DMD, OMD and CPD. Supplementation of NM improved NDFD and ADFD than those of control (P<0.05), while the NA did not. Such effect of niacin might be due to a stimulation of rumen microbial activity, resulting in a higher digestion of plant cell wall (Horner et al., 1988).

Table 1. Intake and digestibility of dairy cows on different supplemental niacin forms

Response Parameter	Unit	n	Control	NA	NM	P-value
DMI	kg/d	82	21.0	20.9	21.8	0.389
DMD	%	22	64.71	64.5	64.06	0.918
OMD	%	13	67.1	66.2	65.7	0.447
CPD	%	15	57.9	58.09	60.0	0.728
NDFD	%	30	46.6a	46.8a	54.3b	0.018
ADFD	%	30	44.3a	44.8ab	54.8b	0.007

DMI, dry matter intake; DMD, dry matter digestibility; OMD, organic matter digestibility; CPD, crude protein digestibility; NDFD, neutral detergent fiber digestibility; ADFD, acid detergent fiber digestibility; n, number of data; NA, nicotinic acid; NM, nicotinamide.

However, addition of different niacin forms on rumen fermentation of dairy cows did not show any significant response as compared to control (Table 2).

Table 2. Rumen fermentation of dairy cows on different supplemental niacin forms

Response Parameter	Unit	n	Control	NA	NM	P-value
pH		17	77.3	78.2	na	0.449
VFA Total	mM	34	86.8	91.2	85.3	0.706
C2	%	39	45.6	46.2	44.7	0.313
C3	%	39	14.9	15.4	16.0	0.103
C2/C3	%	39	3.12	3.06	2.94	0.280
NH ₃	%	39	151.9	163.4	153.3	0.226

VFA, volatile fatty acid; C2, acetate; C3, propionate; C2/C3, acetate to propionate ration; NH₃, ammonia concentration; n, number of data; na, data not available; NA, nicotinic acid; NM, nicotinamide.

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In relation to blood plasma profiles, supplementation of NA or NM significantly decreased BHBA concentration ($P < 0.05$), but did not change NEFA, glucose, triglyceride, urea and insulin as compared to control (Table 3). The decrease of BHBA may occur since niacin supplementation increases the energy generating processes (ATP cycles). Further, niacin can bind to the G-protein coupled receptor GPR109A, causing inhibition of adenylyl cyclase activity and a subsequent reduction of intracellular cyclic AMP (cAMP), leading to suppression of lipolysis (Wise et al., 2003). NM has a lower affinity for the GPR109A than that of NA (Gille et al., 2008), and hence, NA supplementation is apparently more effective than NM.

Table 3. Composition of blood plasma of dairy cows on different supplemental niacin forms

Response Parameter	Unit	n	Control	NA	NM	P-value
NEFA	ueq/l	28	253.5	228.8	na	0.176
BHBA	mg/l	43	116.9b	97.9a	102.7a	0.032
Glucose	mg/l	62	594.5	603.4	545.6	0.664
Urea	mg/l	26	164.4	154.9	na	0.478
Insulin	uU/ml	16	17.3	17.9	na	0.563

NEFA, non-esterified fatty acids; BHBA, beta-hydroxybutyric acid; n, number of data; na, data not available; NA, nicotinic acid; NM, nicotinamide.

Supplemental niacin in this result did not change the milk composition (protein, fat, total solid, solid non fat and lactose) (Table 4).

Table 4. Milk yield and composition of dairy cows on different supplemental niacin forms

Response Parameter	Unit	n	Control	NA	NM	P-value
Milk yield	kg/d	107	30.1b	30.5b	27.8a	0.036
4% FCM	kg/d	67	29.4	29.2	27.4	0.581
Protein	%	78	3.15	3.07	2.89	0.226
Fat	%	97	3.70	3.66	3.87	0.156
Total solid	%	22	11.8	11.7	na	0.776
Solid non fat	%	43	8.06	8.12	7.95	0.259
Lactose	%	27	7.18	7.22	na	0.471

FCM, fat-corrected milk; n, number of data; na, data not available; NA, nicotinic acid; NM, nicotinamide.

Although NM decreased milk yield as compared to control ($P < 0.05$), the effect did not significant on 4% fat corrected milk (FCM). Milk production of dairy cows is varied and influenced by the period of lactation. Jaster et al. (1983) reported that milk yield increased by supplementation of niacin, mainly in early lactation (10 to 15 week). In this study, period of lactation in each study was not distinguished, and this may explain such insignificant effect of NA or NM supplementation on 4% FCM.

CONCLUSION

It can be therefore concluded that supplementation of niacin, either as NA or NM, has less effect in improving milk production of dairy cows (4% FCM), but it may advantage energy balance status of dairy cows. In the latter case, apparently NA is more effective than NM.

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