



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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Edi Kurnianto
Agung Purnomoadi
Akhmad Sodik
Komang G. Wiryawan
Siti Darodjah
Ismeth Inounu
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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), BAHA(Bangladesh), CAASVM(China), IAAP(India), ISAS(Indonesia), IRAS(Iran), JSAS(Japan), KSAST(Korea), MSAP(Malaysia), MLSBA(Mongolia), NAS(Nepal), NZSAP(New Zealand), PAHA(Pakistan), PNGSA(Papua New Guinea), PHAS(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, 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 1007 IT	A Logistic Model to Describe the Growth of a Nondescript Chicken Breed From Apulia, Italy <i>Maria Selvaggi, Vincenzo Tufarelli, Francesco Pinto, Federica Ioanna, and Cataldo Dario</i>	1588
A 1078 ID	The Effects of Diluents and Cryoprotectants on Sperm Motility of Native Chicken Frozen Semen <i>W. Asmarawati, Kustono, D. T. Widayati, S. Bintara and Ismaya</i>	1592
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A 656 IT	Genome-Wide Association Study of Disease Caused by <i>Mycoplasma hyopneumoniae</i> in Duroc <i>Tomoshi Yoneno, Shimazu Tomoyuki, Liushiqi Borjigin, Yuki Katayama, Ryosuke Otsu, Hayato Saito, Hiroshi Kunii, Toshimi Matsumoto, Tadahiko Okumura, Hirohide Uenishi, and Keichi Suzuki</i>	1608

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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
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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
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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 Ruminant Fermentation in Thai Native Bulls <i>T. Sakai, W. Angthong, M. Takeda, T. Suzuki, K. Oishi, H. Hirooka and H. Kumagai</i>	1874
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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 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 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
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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
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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 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 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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Ruminal Methane Emissions *In Vitro* of Plants Differing in Their Main Phenolic Fractions

Anuraga Jayanegara, Muhammad Ridla, Erika B. Laconi and Nahrowi

Department of Nutrition and Feed Technology, Bogor Agricultural University, Indonesia

Corresponding email: anuragaja@ipb.ac.id

ABSTRACT

Plants containing phenolics have been known to produce less ruminal methane emissions when incubated with buffered-rumen fluid *in vitro*. However, little is known concerning methane mitigation effects of plants differing in their phenolic fractions. The present study was aimed to observe such effects by using several plants, namely *Swietenia mahagoni* (SM; rich in condensed tannins), *Clidemia hirta* (CH; rich in hydrolysable tannins) and *Eugenia aquea* (EA; rich in non-tannin phenolics). The plants were incubated either individually or mixed with a control plant with negligible phenolic contents, i.e. *Carica papaya* (CP; 1:1 w/w). An amount of 200 mg dry matter from each plant sample was incubated *in vitro* with 10 ml of rumen fluid and 20 ml of buffer solution in a Hohenheim gas test syringe. Incubations were conducted in four replicates (runs), represented by one syringe per replicate. In each run, incubation was performed for 24 h and kept at 39°C. Total gas and methane productions were measured after the incubation. Fermentation fluid was subjected to volatile fatty acid (VFA) and ammonia measurements as well as bacteria and protozoa counts. Data were analyzed by analysis of variance and subsequent Duncan's test. Results revealed that combining each species of plant containing phenolics with CP significantly lowered methane emissions (as percentage of total gas) ($P < 0.05$). Methane emissions of CP, CP+SM, CP+CH and CP+EA were 18.6, 14.0, 14.3 and 16.1%, respectively. Total gas production of CP decreased significantly after being mixed with SM, CH and EA ($P < 0.05$). Similar pattern to total gas was observed for those of total VFA and ammonia concentrations. It can be concluded that methane mitigation effects of plants rich in either condensed or hydrolysable tannins are higher than that of plant rich in non-tannin phenolics.

Key Words: Phenolic, Methane, Rumen, Fermentation, *In vitro*

INTRODUCTION

Current goals of livestock production have expanded from previously focusing on improving productivity to more system oriented approach by integrating other related aspects such as environment, quality of products, welfare, etc. With regard to environment, livestock especially ruminants have been considered to considerably contribute to global warming by emitting a green-house gas namely methane (Moss et al. 2000). Such emission is not merely related to environmental problem, but it also represents a certain proportion of energy loss from the animals; it has been estimated that the loss is around 6-10% from the gross energy intake or 8-14% loss from the digestible energy intake (Cottle et al. 2011). Therefore various attempts have been made in order to mitigate methane emissions originated from ruminant livestock (Beauchemin et al. 2008). Plants containing phenolics have been shown to produce less ruminal methane emissions, both *in vitro* and *in vivo* (Jayanegara et al. 2009; 2011; 2012). However, there is an uncertainty whether the methane mitigating properties of plants containing phenolics are retained when the plants are mixed and used together with forages containing negligible contents of the compounds. Further, little is known concerning methane mitigation effects of plants differing in their phenolic fractions since phenolics chemically are such a diverse compounds. The present study was aimed to observe such effects by using several plants, namely *Swietenia mahagoni* (SM; rich in condensed tannins), *Clidemia hirta* (CH; rich in hydrolysable tannins) and *Eugenia aquea* (EA; rich in non-tannin phenolics).

The plants were mixed with *Carica papaya* (CP) which contains very low amount of phenolics.

MATERIALS AND METHODS

All plants used in the present experiment, i.e. CP, SM, CH and EA were collected from the area of Bogor, Indonesia. These plants are used either as ruminant feeds in rural areas or as traditional veterinary medicinal plants across the country. Approximately 3 kg fresh matter of each plant species was collected. Shortly after the collection, the samples were air-dried in a greenhouse for two days and then subsequently oven-dried at 50°C overnight. Prior to further steps, all samples were ground to pass a 1 mm sieve. The plants were characterized for their chemical compositions, including crude nutrients, Van Soest's fiber fractions and phenolic fractions. The plants were incubated *in vitro* in rumen-buffer mixture by following the procedure of Menke and Steingass (1988). Incubation of the plants was conducted either individually or mixed with a control plant with negligible phenolic contents, i.e. CP (1:1 w/w). An amount of 200 mg dry matter from each plant sample was incubated *in vitro* with 10 ml of rumen fluid and 20 ml of buffer solution in a Hohenheim gas test syringe, performed for 24 h and kept at 39°C. The syringes used have two outlets; the first outlet is used for filling and emptying the liquid phase and the other one is used for sampling of the gas phase, i.e. methane. Total gas, organic matter digestibility and methane production were measured after the incubation as previously described in Jayanegara et al. (2011). Fermentation fluid was subjected to volatile fatty acid (VFA) and ammonia measurements as well as bacteria and protozoa counts.

Allocation of the plants into experimental units were based on a randomized complete block design. Incubations were conducted in four replicates (runs), represented by one syringe per replicate. The block employed was the rumen content used in each run. Data obtained were analyzed by a two-way analysis of variance. When the experimental plants showed significantly different at $P < 0.05$ for a particular parameter, the statistical analysis was continued with a post-hoc test namely Duncan's multiple range test.

RESULTS AND DISCUSSION

Total phenol (TP) contents of CP, SM, CH and EA were 2.5, 20.7, 21.6 and 16.9% DM, respectively, whereas total tannin (TT) contents of these plants were 0.8, 13.8, 21.2 and 6.7% DM, respectively. The main phenolic fractions in SM, CH and EA were condensed tannins (41.6% from TP), hydrolysable tannins (93.5% from TP) and non-tannin phenolics (60.4% from TP), respectively.

Table 1. Total gas production, organic matter digestibility (OMD), methane emission and microbial population of the incubated experimental plants

Plant	Total gas (ml)	OMD (%)	CH ₄ (% gas)	CH ₄ /OMD (ml/g DM)	Bacteria (log cell/ml)	Protozoa (log cell/ml)
CP	44.1 ^e	76.9 ^f	18.6 ^e	53.5 ^e	9.45	4.40 ^{bc}
SM	22.1 ^b	43.5 ^c	9.4 ^a	24.2 ^a	9.40	4.20 ^a
CH	21.1 ^b	41.7 ^b	11.5 ^b	29.1 ^b	9.35	4.28 ^{ab}
EA	10.8 ^a	29.6 ^a	11.7 ^b	21.8 ^a	9.31	4.50 ^c
CP+SM	32.4 ^d	59.5 ^e	14.0 ^c	38.3 ^c	9.48	4.41 ^{bc}
CP+CH	33.0 ^d	59.6 ^e	14.3 ^c	39.7 ^{cd}	9.39	4.23 ^{ab}
CP+EA	27.5 ^c	53.2 ^d	16.1 ^d	41.9 ^d	9.41	4.25 ^{ab}
P-value	<0.001	<0.001	<0.001	<0.001	0.338	0.008

CH, *Clidemia hirta*; CP, *Carica papaya*; DM, dry matter; EA, *Eugenia aquea*; SM, *Swietenia mahagoni*

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Combining each species of plant containing phenolics with CP significantly lowered methane emissions (as percentage of total gas) than that of CP only ($P < 0.05$; Table 1); mixing SM, CH or EA with CP decreased such methane emissions by 24.7, 23.1 or 13.4%, respectively. Further, the relationship between total phenol (TP) or total tannin (TT) contents in plants and *in vitro* ruminal CH_4 emissions (% total gas) is presented in Figure 1. This finding supports previous studies that reported the potentiality of phenolics in mitigating ruminal methane emissions (Jayanegara et al. 2009; 2011). The mechanisms on how phenolics could lower the methane emissions are due to a decline in nutrient digestibility, direct inhibitory effect on methanogens and defaunation effect on protozoa where part of the methanogens are symbiotically living together (Jayanegara et al. 2012). The decline of digestibility by adding plants containing phenolics was also observed in the present experiment. The results also suggest that methane mitigation effects of plants rich in either condensed or hydrolysable tannins are higher than that of plant rich in non-tannin phenolics. Total gas production and OMD of CP decreased significantly after being mixed with SM, CH and EA ($P < 0.05$). Similar pattern to total gas was observed for those of total VFA and ammonia concentrations (Table 2)

Table 2. Volatile fatty acid (VFA) and ammonia (NH_3) concentration of the incubated experimental plants

Plant	Total VFA (mM)	C ₂ (mM)	C ₃ (mM)	C ₄ (mM)	C ₂ :C ₃	NH ₃ (mM)
CP	73.9 ^c	51.6 ^c	12.7 ^d	6.7 ^d	4.15 ^a	28.0 ^d
SM	50.8 ^b	38.3 ^b	8.1 ^b	3.4 ^a	4.73 ^b	8.3 ^a
CH	49.7 ^b	36.4 ^b	7.8 ^b	4.5 ^b	4.71 ^b	8.9 ^a
EA	42.7 ^a	32.0 ^a	6.1 ^a	3.8 ^a	5.24 ^c	11.0 ^{ab}
CP+SM	62.3 ^d	45.5 ^d	10.1 ^c	5.3 ^c	4.49 ^{ab}	13.5 ^{bc}
CP+CH	59.8 ^{cd}	43.2 ^{cd}	10.0 ^c	5.2 ^c	4.34 ^{ab}	14.0 ^{bc}
CP+EA	57.9 ^c	41.9 ^c	9.3 ^c	5.1 ^c	4.51 ^{ab}	15.8 ^c
P-value	<0.001	<0.001	<0.001	<0.001	0.003	<0.001

C₂, acetate; C₃, propionate; C₄, butyrate; CH, *Clidemia hirta*; CP, *Carica papaya*; DM, dry matter; EA, *Eugenia aquea*; SM, *Swietenia mahagoni*

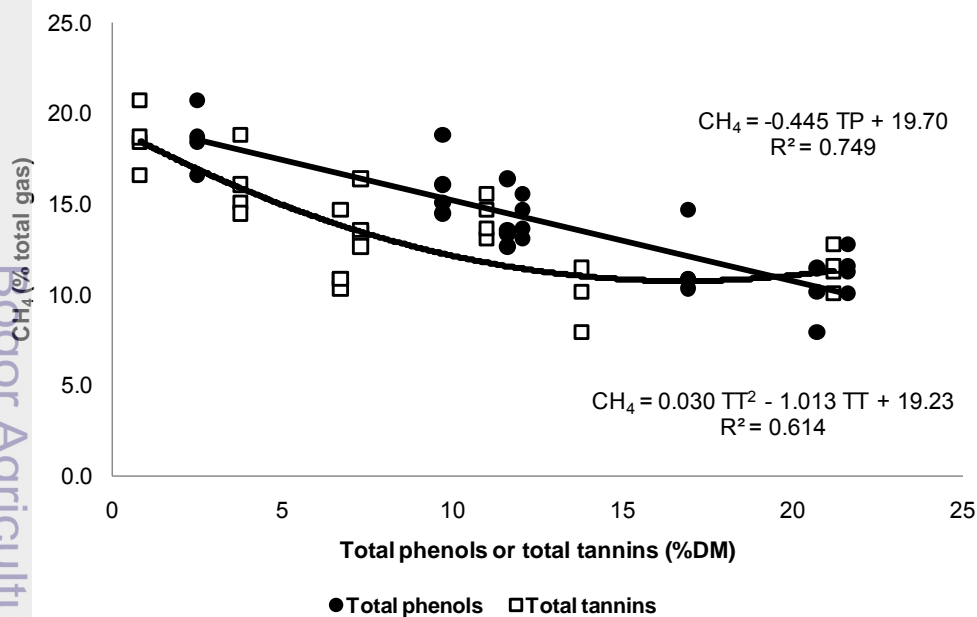


Figure 1. Relationship between total phenol (TP) or total tannin (TT) contents in plants and *in vitro* ruminal CH_4 emissions (% total gas)

CONCLUSION

It can be concluded that methane mitigation effects of plants rich in either condensed or hydrolysable tannins are higher than that of plant rich in non-tannin phenolics.

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