



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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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 642 JP	Genetic Diversity and Differentiation within Breeds of Native Japanese Chickens Based on Microsatellite DNA Analysis <i>T. Oka and M. Tsudzuki</i>	1580
A 750 TH	Comparative Study on Live Weight and Growth Performance of Thai Synthetic Chickens <i>T. Buasook, S. Siripanya, B. Laopaiboon, M. Daungjinda and S. Kunhareang</i>	1584
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 185 KR	The Effect of Ultrasound Live Body Composition and Structure Traits on Carcass Traits in Crossbred Pigs of Korea <i>ChangheeDo, Chanhyuk Park, Nidarshani Wasana, Jaegwan Choi, Su Bong Park, Sidong Kim, Gyuhoo Cho, Incheol Kim and Donghee Lee</i>	1596
A 222 KR	Selection Response of Production Traits in the Closed Herd in Swine <i>ChangHee Do, JaeGwan Choi, YoungGuk Joo, ChanHyuk Park, Nidarshani Wasana, HyungJun Song, SeokHyun Lee, HyeongSeop Kim</i>	1600
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
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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A 665 JP	Identification and Comparison of Reproductive Trait Loci by Using Whole-Genome Association Studies of Large White Pigs from Three Breeding Companies in Japan <i>Ryosuke Otsu, Tomoyuki Shimazu, Toshimi Matsumoto, Eiji Kobayashi, Satoshi Mikawa, and Keiichi Suzuki</i>	1616
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A 696 KR	Evaluation of Growth Performance and Carcass Quality of Imported and Locally Produced Piglets <i>H. S. Kim, B. M. Lopez, H. S. Kang, Y. H. Kim, M. Jang, K. C. Nam and K. S. Seo</i>	1624
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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
A 699 KR	Assessment on Proportion of Females on Number of Piglets Born Alive in Yorkshire and Landrace Pig Breeds <i>Y. H. Kim, B. M. Lopez, H. S. Kang, M. Jang, H. S. Kim, K. C. Nam and K. S. Seo</i>	1636
A 764 JP	Effect of Fucoidan and Brown Seaweed on the Immunoresponse in Selected Mouse Lines <i>Kanako Murakoshi, Yuuichi Miyauchi, Daichi Ito, Tomoyuki Shimazu, Keiichi Suzuki</i>	1639
A 1043 KR	Molecular Analysis of the Horse (<i>Equus caballus</i>) B3GNT5 Gene that are having cSNPs According to Exercise Abilities <i>Jeong Woong Park, Hyun Woo Cho, Jae Young Choi, Kyung-Joo Lee, Kyoung Tag Do, Duk Moon Kim, Sang Soo Shin, and Byung Wook Cho</i>	1643
A 1044 KR	Molecular Analysis of the Horse (<i>Equus caballus</i>) ERFFI1 Gene that are having cSNPs According to Exercise Abilities <i>Byung Wook Cho, Hyun Woo Cho, Jeong Woong Park, Jae Young Choi, Kyung-Joo Lee, Kyoung Tag Do, Duk Moon Kim, and Sang Soo Shin</i>	1647

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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
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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. Anghong, M. Takeda, T. Suzuki, K. Oishi, H. Hirooka and H. Kumagai</i>	1874
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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 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 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 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 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
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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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Biodegradation of Fibrous Feed by *Phanerochaete chrysosporium* (Study of Cocoa Pod Husk and Palm Oil Frond)

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ABSTRACT

Utilization of plantation waste as feed can be a solution for sustainable feed resources, high lignin have caused low digestibility. The potential plantation wastes as feed are cocoa pod husk and palm oil frond. For the optimal result, fermentation process has to be applied to improve the value of plantation waste as feed. *P. chrysosporium* is a white rot fungi producing a ligninolytic enzyme that can degrade lignocelluloses linkage. Fermentation of cocoa pod husk by *P. chrysosporium* without mineral supplement decreased lignin 18.36%. Fermentation *P. chrysosporium* cocoa pod husk by adding Mn²⁺ (100 ppm) and Ca²⁺ (1190 ppm) was more effectively degrading lignocelluloses linkage. Apparently, the optimum concentration of 1190 ppm Ca²⁺ and 100 ppm Mn²⁺ for 10 days cocoa pod husk fermentation was optimum for the growth of fungi and production of ligninolytic enzyme. Lignin degradation (38.61%), the ratio of cellulose of lignin (1.25), efficiency biodegradation process (5.65), in-vitro digestibility of dry matter (59.61%) and organic matter (61.03%). Palm oil frond fermentation by *P. chrysosporium* could reduce lignocelluloses content up to 47.79%. Through this process phenolic compounds was also produced which possessed a high antioxidant activity. Lignocelluloses biodegradation from cocoa pod husk and palm oil frond by *P. chrysosporium* was able to increase plantation waste quality as feed.

Key Words: Lignocelluloses, *Phanerochaete chrysosporium*, Cocoa pod husk, Palm oil frond

INTRODUCTION

Lignocelluloses is the major component of biomass, it consists of three types of polymers, cellulose, hemicelluloses and lignin that are strongly chemically bonded by non-covalent force and by covalent cross linkages (Pérez et al., 2002). Lignin is a limiting factor in animal feed due to its low digestibility, thereby reducing the nutritional value of the feed. Nutrient quality of cocoa pod husk is equal to elephant grass, with 53.3% of TDN (Aregheore, 2002). Cocoa pod husk is potential as forage sources for ruminant, which have energy sources such as hemicelluloses and cellulose. Cacao pod husk contains approximately 6.28% protein; 39.9% crude fiber; 1.61% crude fat; 82.84% NDF, 78.74% ADF and 35.27% lignin. Inhibitor factor in utilizing cocoa pod husk as feedstuff is high water content (85%) and lignin and also contains alkaloid *theobromine* (Tequia et al. 2004). Palm oil frond contains approximately 5.28% protein, 12.87% hemicelluloses, 27.70% celluloses, 65.59% NDF, 52.72% ADF and 25.42% lignin. Two main nutritional strategies have been proposed to overcome limitation of cocoa and palm oil plantation waste by mixing with a more fermentable or digestible feed or by treating biological agents and chemical (Alemawor et al., 2009). *P. chrysosporium* is one of ligninolytic enzyme-producing fungi, it has widely used to delignify agriculture waste product such as cocoa pod husk and palm oil frond. Lignin degradation by this fungi involved ligninolytic enzyme activity such as lignin peroxidase (Li P), mangan peroxidase (Mn P), and lakase. The optimum growth of fungi and production of ligninolytic enzyme are more affected by organic and mineral supplement of substrate. Mineral supplement such as Mangan (Mn²⁺) dan Calcium (Ca²⁺) are expected to increase mycelium mass and

ligninolytic enzyme-production. A few of research have been done to evaluate the effectiveness degradation lignin content by fermentation of *P chrysosporium*. The aim of present study was to observe the ability of *P chrysosporium* to delignify cocoa pod husk and to compare a number of treatments in order to improve nutritional quality of cocoa pod husk and palm oil frond.

MATERIALS AND METHODS

Several experiments were conducted to observe ability of *P chrysosporium* to delignify cocoa pod husk and palm oil frond. First research was conducted to evaluate the effect of five treatments to delignify cocoa pod husk, i.e. (1) 1.5% of Urea; (2) 3% of molasses; (3) rumen content plus 3% molasses; (4) bio-fermented by *P chrysosporium*; and (5) untreated as a control. Based on result of first research, secondly research was conducted bio-fermented cocoa pod husk enhanced with Ca²⁺ and Mn²⁺. First step: to examination of mineral concentration on *malt extract peptone agar* media with four different Ca²⁺ concentration (0, 1190, 2380, 3570 ppm) and four different Mn²⁺ concentration (0,100,200 and 300 ppm). Incubation was done for 4 days. Secondly step: combination Ca²⁺ and Mn²⁺ concentration with optimum result of dry weight of mycelium, activity of lignin peroxidase and manganase peroxidase were used to bio-femented cocoa pod husk with *P chrysosporium*. Third research was conducted to observe the ability degradation of fiber component on palm oil fond fermentation of *P chrysosporium*. Inoculant doses: 10⁵ cfu/ml; 10⁶ cfu/ml; and 10⁷ cfu/ml with length of fermentation: 10; 15; and 20 days. Composition of nutrient, lignin, pH of substrate, loss of dry matter and activity of ligninolytic enzym were measured after fermentation proses. Composition of nutrien (AOAC, 1995), lignin (Van Soest, 2002), loss of dry matter, pH of substrate, ligninolytic enzyme activity (John, 2002) were measured before and after fermentation. The phenolic compounds in the supernatant of palm oil frond was determined by GC-MS and antioxidant activity test of lignin using the method of α,α -Diphenyl- β -Picrylhydrazyl (DPPH).

Allocation of the cocoa pod husk and palm oil frond into experimental units were based on a completely randomized design in four replicates. Data obtained were analyzed by analysis of variance. When the experimental 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

Fermentation of cocoa pod husk by *P chrysosporium* could degrade linkage between lignin and carbohydrate. *P chrysosporium* is one of ligninolytic enzyme producing fungi such as lignin peroxidase (Li P) and manganase peroxidase (Mn P). Result of the first research indicated that treatment of cocoa pod husk by *P chrysosporium* increased crude protein content compared to control (P<0.05), while not for other treatments such as treated by urea, molasses, and rumen content. Organic matter degradation and mycelium growth of *P chrysosporium* added nitrogen content (Alemowar et al. 2009). With respect to fiber fraction, all treatments decreased NDF and ADF content significantly (P<0.01). Lignin content was decreased 18.36% when cocoa pod husk treated with molasses, urea, rumen content and *P chrysosporium* (P<0.01). The Effectiveness of fermentation in decreasing lignin content was as followed: *P chrysosporium* >ammonisation>fermentation by rumen content>fermentation plus molasses (Erika B. Laconi, 1998).

Addition of mineral Mn²⁺ and Ca²⁺ were expected to increase mycelium growth of *P chrysosporium* and production of Li P and Mn P. Combination of 100 ppm Mn²⁺ and 1190 ppm Ca²⁺ was the optimum for mycelium growth and production of ligninolytic enzyme.

Manganese peroxidase and lignin peroxidase were 5.68 U/g and 5.97 U/g of dry matter mycelium. Crude protein content of fermented cocoa pod husk by *P chrysosporium* increased ($P < 0.05$) compared others treatment. Lignin degradation (38.61%), efficiency of biodegradation process (5.65) and ratio of cellulose to lignin (1.25) (Suparjo, 2010).

Average pH of substrate ranged 4.73 -5.25 during the fermentation process. Water activity (A_w) is a sum of free water used for microorganism growth, increased of A_w value 0.88-0.90 higher than minimum A_w value for microorganism growth. The ability of *P chrysosporium* to degrade lignin content has approved to degrade lignin content of palm oil frond. After fermentation by 10^7 cfu/ml *P chrysosporium* and 10 days length could reduce NDF (26.60-42.49%) and ADF (30.12-40.97%) significantly ($P < 0.05$). Decreasing of lignin content 47.79% and ratio cellulose to lignin 1.35

Degradation lignocellulose of palm oil frond by *P chrysosporium* has resulted phenolic compound with antioxidant activity. Incubation time of palm oil frond up to 10 days increased percentage of inhibition with 89.41% inhibition rate and antioxidant activity was declining at 12 days of incubation. The component of phenolic compound resulted from lignin degradation included 2.6 di-methoxy phenol (15.46%) and syringic acid (25.65%) (Afnur Insiya, 2013).

According to result of several researches that have been done, *P chrysosporium* is one of the white rot fungi which have abilities to degrade linkage between lignin and carbohydrate. Lignin is a limiting factor of feedstuff due to its low digestibility, thereby reducing the nutritional value of the feedstuff. Increasing of mycelium growth of *P chrysosporium* and ligninolytic enzyme production could be carried out by addition of mineral Mangan and Calcium. Lignin degradation of palm oil frond by *P chrysosporium* also produced phenolic compound with high antioxidant activity.

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