



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 16<sup>th</sup> AAAP Congress



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Ministry of Agriculture



Indonesian Society of Animal Sciences



Gadjah Mada University



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# **SUSTAINABLE LIVESTOCK PRODUCTION IN THE PRESPECTIVE OF FOOD SECURITY, POLICY, GENETIC RESOURCES, AND CLIMATE CHANGE**

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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 16<sup>th</sup> AAAP Congress

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

As the host of the 16<sup>th</sup> AAAP Animal Science Congress, we do impress, thankful, and present a high appreciation for your participation in joining the 16<sup>th</sup> 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 16<sup>th</sup> 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 16<sup>th</sup> 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 16<sup>th</sup> AAAP Congress

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## 16<sup>th</sup> 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 16<sup>th</sup> 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 16<sup>th</sup> 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 17<sup>th</sup> 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 16<sup>th</sup> AAP Congress

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## PREFACE

The proceedings of the 16<sup>th</sup> 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 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
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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 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
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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 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
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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 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
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# Protein Digestibility and Nitrogen Retention of Weaning Local Male Rabbits on Substitution of Soybean Meal with *Bauhinia purpurea* L

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## ABSTRACT

*Bauhinia purpurea* L. is a potential legume for rabbit fodder, due to its high protein content. This study investigated the substitution effect of soybean meal with *Bauhinia purpurea* L. as protein source on dry matter, protein digestibility and nitrogen retention of weaning local male rabbits. Completely randomized design was used in this study. A total of 20 weaning rabbits were randomly divided into five treatments diets (0, 10%, 20%, 30% and 40% of *Bauhinia purpurea* L.) with 4 rabbits each treatment. Animals were given feed and water *ad libitum* for 8 weeks. Samples for analysis were collected every last three days of the week. The results showed that the treatments diets didn't significantly influence dry matter digestibility, protein digestibility and nitrogen retention of weaning local male rabbits. *Bauhinia purpurea* L. can be used as protein source until 40% in the rabbit ration.

**Key Words:** *Bauhinia purpurea* L., Soybean meal, Protein digestibility, Weaning rabbit, Nitrogen retention

## INTRODUCTION

Rabbits have potential to be developed as a producer of healthy meat, because it offers excellent nutritive properties. Rabbit meat has rich protein and it contains high essential amino acids as well as low cholesterol meat (Zotte and Szendrő, 2011). Soybean meal is widely used as a non ruminant feed (including rabbits) due to the high protein content, high digestibility and highly palatable (Cheeke, 2005). However, the use of soybean meal as rabbit feed causes less economical production. Rabbits are also known as non ruminant herbivores that can utilize forage protein. So the use of soybean meal can be substituted by *Bauhinia purpurea* L. which has high protein content. The aims of this study were to investigate the extent of the dry matter and protein digestibility as well as nitrogen retention of *Bauhinia purpurea* L. as rabbit feed.

## MATERIALS AND METHODS

**Animal and diets:** A total of 20 male rabbits with average body weight of  $853 \pm 117$  g were used in this study. Rabbits were randomly divided into five experimental diets (4 replications of each). The diets were formulated according to the NRC (1977) (Table 1). Rabbits were housed in individual cages (70x40x40 cm), equipped with feeder, drinker and shelter for feces and urine.

**Experimental procedure:** The trial lasted 56 d with a 7-d adaptation and a 49-d experimental period. The feed and water were offered *ad libitum*, and the residual feed was collected from the feeder daily. Feces and urine were collected separately at the last 3-d on each week. The collected feces were mixed and weighed and then it dried on the sun before it was dried at 60 °C for 24 hours. Ten g feces samples was taken and used for nitrogen (N) analysis (Kjeldahl method). Urine was collected separately using plastic barrel and acidified with 2-3 drops of H<sub>2</sub>SO<sub>4</sub>. After weighing and stirring it, a portion of 5% urine was sampled into a plastic bottle and stored at -20 °C, until used for N analysis. Procedures of AOAC (2000) were used to determine dry matter (DM), ash, crude protein (CP), crude fibre (CF), ether extract (EE), calcium (Ca) and phosphor (P) of experimental diets. Acid-detergent fibre

(ADF) of diets was determined by Van Soest et al. (1991). DM and N content of feces and urine were determined using AOAC (2000). Gross energy (GE) of the diets was determined using bomb calorimeter.

**Table 1.** Ingredients and chemical composition of experimental diets

Ingredients	R1	R2	R3	R4	R5
	%				
<i>Bauhinia purpurea</i> L.	0.0	10.0	20.0	30.0	40.0
Soybean meal	40.0	30.0	20.0	10.0	0.0
Yellow corn	24.0	24.0	24.0	24.0	24.0
Rice bran	12.0	12.0	12.0	12.0	12.0
Pollard	20.0	20.0	20.0	20.0	20.0
Crude palm oil	2.0	2.0	2.0	2.0	2.0
CaCO <sub>3</sub>	1.0	1.0	1.0	1.0	1.0
Premix	1.0	1.0	1.0	1.0	1.0
Total	100	100	100	100	100
Nutrient composition (DM)*					
Ash <sup>a</sup>	6.9	6.4	6.7	6.9	7.3
Crude protein	24.2	22.9	18.2	15.6	12.3
Ether extract	5.5	9.2	10.5	10.9	11.9
Crude fibre	7.5	7.8	13.2	14.4	15.4
Phosphorus	0.1	0.2	0.3	0.2	0.2
Calcium	0.3	0.3	0.6	0.3	0.6
NFE	55.9	53.7	51.4	52.1	52.9
Acid detergent fibre	24.2	31.6	38.4	49.8	58.6
GE (Kcal/kg)	4785.5	4574.8	4566.4	4476.6	4465.7
DE (Kcal/kg BK) <sup>a</sup>	3679.6	3518.6	3357.7	3196.7	3035.8

<sup>a</sup>Calculated values; DM: dry matter, NFE: nitrogen free extract, ADF: acid-detergent fibre. GE: gross energy. DE : digestible energy.

**Statistical analysis:** Data were analyzed by the one way analysis of variance (ANOVA). The orthogonal contrast analysis was used to determine the difference between treatments.

## RESULTS AND DISCUSSION

**Dry matter digestibility.** Substitution of *Bauhinia purpurea* L. didn't improve dry matter intake (DMI), fecal DM and DM digestibility significantly (Table 2). However, the trend of DMI and DM fecal was increased and DM digestibility was decreased. R5 had the highest DMI than the others when *Bauhinia purpurea* L. was used on the ration. Substitution of soybean meal with *Bauhinia purpurea* L. increased CF on the diet, increased the passage rate of digesta and DMI also. The slight difference of dietary CF and ADF could have been responsible for the decreased of DM digestibility. A similar finding was reported by Rebollar et al. (2011) which found feeding high fibre diet and low starch level on rabbit result in the low DM and protein digestibility. *Bauhinia purpurea* L. also contains tannin which reduced the enzymes ability to digest nutrient. Al-Mamary et al., (2001) found that addition of high tannin from sorghum grains slightly increased the feed intake due to the enzymes of the intestine were inhibited by tannins, and reduced digestibility.

**Protein digestibility.** Protein intake of R4 and R5 were lower, and it decreases significantly ( $P < 0.01$ ). Table 2 didn't show significant differences on fecal protein and protein digestibility. However the protein digestibility tend to downward trend as *Bauhinia purpurea* L. substitution increased. Increasing *Bauhinia purpurea* L. caused a decrease in dietary CP and it also increased the CF as well as tannin. The reduction of dietary CP reduced the coefficients of apparent ileal digestibility, because the fibrous material supplied larger CP on



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diets (Martínez-Vallespín *et al.*, 2013). Cheeke (1987) reported that differences in protein digestibility could be due to the feed ADF. R5 had the highest ADF (58.6%). ADF consists of lignin and cellulose which made the protein digestibility decreased.

**Table 2.** The effect of soybean meal substitution with *bauhinia purpurea* L. on dry matter digestibility, protein digestibility and nitrogen retention

	Treatments				
	R1	R2	R3	R4	R5
DM Intake (g/day)	63.1 ± 12.1	63.5 ± 11.1	63.9 ± 4.2	63.1 ± 15.1	71.4 ± 4.4
Fecal DM (g/day)	13.1 ± 2.5	16.3 ± 3.2	20.1 ± 6.3	21.3 ± 6.5	21.6 ± 4.5
DM digestibility (%)	78.6 ± 3.5	73.8 ± 3.8	69.8 ± 9.9	65.5 ± 10.7	69.6 ± 6.8
Protein intake(g/day)	19.1 ± 3.6 <sup>a</sup>	19.0 ± 3.3 <sup>a</sup>	15.8 ± 1.3 <sup>a</sup>	12.9 ± 3.1 <sup>b</sup>	12.0 ± 0.7 <sup>b</sup>
Fecal protein (g/day)	2.9 ± 0.5	3.3 ± 0.8	2.9 ± 0.8	2.9 ± 1.0	3.3 ± 1.6
Protein digestibility (%)	84.4 ± 3.8	82.3 ± 4.6	82.4 ± 5.4	77.2 ± 7.3	72.7 ± 13.1
N intake(g/day)	3.1 ± 0.6 <sup>a</sup>	3.1 ± 0.5 <sup>a</sup>	2.5 ± 0.2 <sup>a</sup>	2.1 ± 0.5 <sup>b</sup>	1.9 ± 0.1 <sup>b</sup>
Fecal N (g/day)	0.5 ± 0.1	0.5 ± 0.1	0.4 ± 0.1	0.5 ± 0.2	0.5 ± 0.3
Urine N (g/day)	0.8 ± 0.4 <sup>a</sup>	0.8 ± 0.3 <sup>a</sup>	0.4 ± 0.3 <sup>b</sup>	0.3 ± 0.1 <sup>b</sup>	0.3 ± 0.2 <sup>b</sup>
N retention(g/day)	1.8 ± 0.4	1.7 ± 0.5	1.6 ± 0.4	1.3 ± 0.4	1.1 ± 0.4

<sup>ab</sup> mean with different superscript(s) in row differs significantly (P<0.01)

**Nitrogen retention.** Table 2 shows that N intake of rabbits in treatment R4 and R5 were the lowest among others and there was significantly different from other treatments (P<0.01). R3 had the lowest fecal N than others but there was no significantly different. R3, R4 and R5 had significant (P<0.01) lower N urine content than R1 and R2. *Bauhinia purpurea* L. didn't significantly affect the N retention (P>0.01), but the trend was downward. Substitution of soybean meal with *Bauhinia purpurea* L. caused lower dietary CP content, and low N intake. Reported by Wohlt *et al.* (1976), feed CP content, physical form, type of feed ingredients affect the N urine excretion. The higher dietary CP content will result in the higher N urine excretion. This substitution until 40% didn't affect fecal N and N retention. The trend of fecal N was upward along with the increase of dietary CF. Higher dietary CF will increase the N fecal excretion, but the increase of dietary GE will decrease the N fecal excretion, and the N retention will increase (Koenig *et al.*, 1980). The N retention tended to the downward trend, however all treatments showed the positive N retention values. This means that there was a number of N retained in the body and used for growth.

## CONCLUSION

It can be concluded that *Bauhinia purpurea* L. can be used as protein source until 40% in the rabbit ration. The use of 30% soybean meal and 10% *Bauhinia purpurea* L. in the rabbit ration gives the best result on dry matter and protein digestibility as well as nitrogen retention.

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