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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING

Judul karya ilmiah (paper) : In Vitro Ruminant Degradability of Soybean Meal Protein Protected with Natural Tannin

Jumlah Penulis : 5 orang

Status Pengusul : Penulis utama

Identitas Makalah : a. Judul Prosiding : IOP Conference Series: Earth and Environmental Science. Volume 19 (1), 2018. Article number 012016. Terindeks Scopus. International Ruminant Seminar: "Eco-friendly livestock production for sustainable agriculture"

b. ISBN/ISSN :-

c. Tahun Terbit, Tempat Pelaksanaan : 24 October 2017, Diponegoro University

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Semarang,

Reviewer 1

Prof. Dr. Ir. Joelal Achmadi, M.Sc.

NIP 19590813 198603 1 002

Jabatan : Guru Besar

Unit kerja : Fak. Peternakan dan Pertanian

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Semarang, April 2020

Reviewer 2

Prof. Dr. Ir. Vitus Dwi Y.B.I., M.S., M.Sc.

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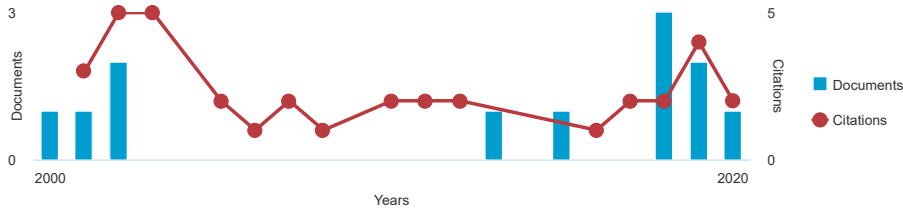
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International Ruminant Seminar: “Eco-friendly livestock production for sustainable agriculture”

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PROCEEDING

International Ruminant Seminar

ECO-FRIENDLY LIVESTOCK PRODUCTION FOR SUSTAINABLE AGRICULTURE

24th October 2017
Semarang, Central Java, Indonesia

FACULTY OF ANIMAL AND AGRICULTURAL SCIENCES
DIPONEGORO UNIVERSITY



Preface

Faculty of Animal and Agricultural Sciences, Diponegoro University has actively participated in disseminating of research outcome from academicians, researcher as well as livestock producers. In ruminant science scope, following the success of the first, second and the third national ruminant seminar, it has been held successfully the First International Ruminant Seminar (IRS) in Semarang Central Java, Indonesia at 24 October 2017.

The primary objective of IRS 2017 were to provide a perspective and insight into environmentally friendly livestock production for sustainable agriculture, to discuss the solutions on mitigating the livestock's contributions to climate change and to provide a venue in order to exchange information and ideas on eco-friendly livestock production system for academicians, researchers, administrators, livestock producers as well as related stakeholders and to share their experiences and develop collaborations and to enhance development of livestock production and environmental friendly concerns in their respective countries. We also welcomed our colleagues from the related fields to contribute to the above objectives. More than 70 papers have been presented and discussed during the seminar by either keynote speakers or participants from different countries. The papers cover ruminant feed and technology, ruminant genetic and breeding, ruminant physiology, health and production, environmental issues, post-harvest technology, social and economic issues and other issues related to the theme of conference.

The selected papers of this seminar are published in this proceeding. It is expected that this proceeding would provide valuable information and contribution for readers in improving the productivity and sustainability of ruminant production.

To follow up the seminar and for regular and continuous discussion on the related aspects of ruminant sustainable production, it is the committee's great honours and pleasures to invite again the participants (academics, scientist, practitioners, as well as industries and related stakeholder) to attend and actively support for the next success of the next IRS seminar.

Semarang, December 2017

Editors

Speech from Chairman of International Ruminant Seminar 2017

Assalamualaikum Wr. Wb

Our sincerely Prof. Yos Johan Utama, Rector of Diponegoro University; Prof. Mukh Arifin, Dean of the Faculty Animal and Agricultural Sciences, Diponegoro University Distinguished guests, speakers and all participants of International Ruminant Seminar 2017.

On behalf of the organizing committee, I would like to express my deeply thanks and welcoming all of you at this International Ruminant Seminar 2017. The ruminant seminar is a seminar about the ruminant livestock production and its related topic. The seminar is organized every three year and has been held for three times at the Faculty of Animal and Agricultural Sciences, Diponegoro University. Previously, the Ruminant Seminar was a national seminar, in that the speakers and participants came only from Indonesia. Start from this year, the ruminant seminar is organized as an international seminar, so that the seminar is attended by international speakers and participants.

The theme of this present seminar is **“Eco-friendly Livestock Production for Sustainable Agriculture”** and has been honoured by the attendance of four keynote speakers: Prof. Takuro Oikawa (Faculty of Agriculture, University of the Ryukyus, Japan), Prof. Sang Jip Ohh (Department of Animal Science, Kangwon National University, South Korea), Dr. Renato S.A. Vega (College of the Agriculture, University of The Philippines Los Banos) and Prof. Agung Purnomoadi (Faculty of Animal and Agricultural Sciences, Diponegoro University-Indonesia).

By end of the registration period, the seminar committee received 77 abstracts, in which 66 papers will be presented in oral presentation and 11 papers will be presented in the poster format. Selected papers of this seminar will be published in an open access reputable international proceeding IOP Conference Series: Earth and Environmental Sciences (EES).

I would like to express my sincerest gratitude to keynote speakers, oral and poster presenters, distinguished guests, participants and our partner institutions who have contributed to this seminar. I thank all of the colleagues, organizing committee, student technical committee and all parties who have worked hard to make this international seminar possible. Finally, good luck and I wish you enjoy the seminar and your time in Semarang.

Thank you very much
Wassalamualaikum Wr. Wb.

Chairman,
Sutaryo, Ph.D.

Rector Speech

Assalamualaikum Wr. Wb

Keynotes speakers, Distinguished participants, Ladies and Gentlemen

It gives me great privilege and pleasure to extend to you all my warmest welcome on behalf of Diponegoro University and to say how honored we are to have your presence here at ICT Centre International Convention Hall of Diponegoro University for **International Ruminant Seminar 2017**.

Diponegoro University is one of the best universities in Indonesia. We are on the stage of transformation from full public funded university to legal entity university which encourage us to be more autonomus. Diponegoro University or usually called as Undip has eleven faculties and two schools that consist of 49 undergraduate programs, three of them are International Undergraduate Program /IUP, 35 master programs and thirteen doctoral programs. Undip pays a big concern to elevate the number of scientific research in particular area to achieve our goal to be a World Class Excellent Research University.

The theme of this seminar is **Eco-friendly Livestock Production for Sustainable Agriculture**. It is well known that livestock production particularly ruminant production is one of the largest contributors to greenhouse gases from agriculture sector. In addition to greenhouse gases production, livestock sector increase deforestation due to expansion of pasture land and arable land used to grow feed crops. However, since animal protein consumption particularly in developing country is much lower than that in developed country and that consumption has very important role to human being growth, development and health, therefore we should respond that issue wisely since this industries also have some functions such as it can utilize agriculture by product to produce nutritious food (meat, egg and milk), it can prolonged carbon cycle as organic material rather than back to nature as carbon dioxide and it can provide land nutrients in the form of animal manure.

This is truly an impending challenge which needs all key players' contribution such as government, researchers, academics and also industries. Mitigating the livestock sector's contributions to climate change is crucial for sustainable agriculture. Technical solution such as reformulation of ruminant diets to reduce enteric fermentation and some methane emissions can be undertaken. Other solutions may be proposed by researchers to support the sustainable livestock farming, from the aspect of feed, genetics, physiology, socio-economic, environment, etc. Hence, as this seminar theme goes, Eco-friendly Livestock Production for Sustainable Agriculture and this seminar is designed to disseminate of such study result.

Indonesia is a developing country that struggling toward developed nation with more than 250 million population must take part on this endeavour, and we extend our hand to the international community to work together toward the same goal. Therefore, I on behalf of Diponegoro University, am deeply honoured for the privilege to host this International Ruminant Seminar. I believe that this seminar will be a good place to share your recent research discoveries, to build partnership in national and international level, so that we can move closer to answer the world especially in climate change challenge together.

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Committee International Ruminant Seminar 2017

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- Prof. Dr. Edy Kurnianto (Faculty of Animal and Agricultural Sciences, Diponegoro University, Semarang, Indonesia)
- Prof. Dr. Joelal Achmadi (Faculty of Animal and Agricultural Sciences, Diponegoro University, Semarang, Indonesia)

To conclude, I would like to congratulate the committee for well-done preparing this seminar. My special gratitude goes to keynote speakers, all participants, partner institution and all other parties supporting this event.

By the name of Almighty Allah Swt, I declare that the International Ruminant Seminar 2017 is officially opened. Finally, welcome and enjoy your time in Semarang, Indonesia. I wish you a very fruitful seminar.

Thank you very much
Wassalamualaikum warohmatullahi wabarokatuh

Semarang, October 24, 2017



Prof. Dr. Yos Johan Utama, SH, M.Hum
Rector of Diponegoro University

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Accepted papers received: 07 February 2018

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