

Program and Abstracts International seminar and second congress of SEAVSA

INCREASING ANIMAL PRODUCTION THROUGH ZONOSSES AND REPRODUCTIVE DISORDER HANDLING, AND THE IMPLEMENTATION OF BIOTECHNOLOGY



21-22 June 2011
JW Marriott Hotel, Surabaya
Indonesia

FACULTY OF VETERINARY MEDICINE UNIVERSITAS AIRLANGGA
I-MHERE Sub-component B.2.c Performance Based Contract





FACULTY OF VETERINARY MEDICINE UNIVERSITAS AIRLANGGA
 INDONESIA-Managing Higher Education for Relevance and Efficiency
 (I-MHERE) Project - Sub Component B.2.c Performance Based Contract
 SOUTH EAST ASIA VETERINARY SCHOOL ASSOCIATION (SEAVSA)



CERTIFICATE

This is to certify that

Dr. Sri Hidanah, Ir., MS.

has successfully attended as Speaker in

**International Seminar and 2nd Congress of SEAVSA
 INCREASING ANIMAL PRODUCTION THROUGH ZOOSES AND REPRODUCTIVE
 DISORDER HANDLING, AND THE IMPLEMENTATION OF BIOTECHNOLOGY**

21-22 June 2011, Surabaya -Indonesia

Dean of the Faculty of Veterinary Medicine
 Universitas Airlangga,

Prof. Hj. Romziah Sidik, DVM., Ph.D.

President of South East Asia Veterinary
 School Association (SEAVSA),

Prof. Dr. Bashir Achmad Fateeh M. DVM., M.Sc.



PROGRAM & ABSTRACTS

International Seminar and 2nd Congress of SEAVSA

**INCREASING ANIMAL PRODUCTION THROUGH
ZONOSSES AND REPRODUCTIVE DISORDER
HANDLING, AND THE IMPLEMENTATION OF
BIOTECHNOLOGY**

**Surabaya, 21-22 June 2011
Royal Ballroom, JW Marriott Hotel
Surabaya - Indonesia**

**Faculty of Veterinary Medicine Universitas Airlangga
I-MHERE Sub-component B.2.c Performance Based Contract**

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INTERNATIONAL SEMINAR AND 2ND CONGRESS OF SEAVSA

*Increasing Animal Production through Zoonoses and Reproductive
Disorder Handling, and the Implementation of Biotechnology*

JW MARRIOTT HOTEL SURABAYA · INDONESIA

21-22 JUNE 2011



MESSAGES

Assalamu'alaikum warahmatullahi wabarakatuh

First of all, I would like to give you a very warm welcome to Surabaya, Indonesia.

It is indeed my honor to have the opportunity to be among participants of this very special occasion, where all of us are going to discuss further about a very important and interesting topic closely related to the management and prevention of zoonotic disease as a way in increasing animal production.

Up to the present time, we know through the mass media, that infectious disease epidemic has not been able to be handled thoroughly throughout the world, including in South East Asian countries. This of course will give bad impacts on the reputation of the region, since failure in the control and handling of various kinds of diseases certainly can cause a broken relationship with people in the surroundings.

Therefore, concern over the emerging of zoonoses among us, especially researchers, has to be raised these days. There are many reasons for conducting scientific research about it, but the most important one is, that such diseases gradually can weaken and decrease human quality of life. Unfortunately, not only people who live under poverty line, this kind of disease is also suffering well-educated and wealthy people. What can we expect from a nation with a weakening of human quality of life?

Therefore, it is the responsibility of researchers and health professionals to work hand-in-hand to eradicate and prevent the outbreak of all diseases.

In this very special event, I would like to express my deep appreciation to all members of South East Asia Veterinary School Association for their success in conducting a better collaboration. Such collaboration is a prerequisite for all efforts in improving performances, including handling of reproductive disorders, eradication of infectious diseases and the implementation of Biotechnology. Those will bring all of us to reach our important goal, that is in improving animal production, as one of the best ways in providing the increasing demand for protein sources.

I strongly believe and hope that today's seminar will be able to strengthen the existing networking as the main step in the eradication and prevention of infectious diseases.

To all participants, I would like to thank you for making this forum a success and would like to thank the organizing committee for a wonderful work.

I hope that the seminar will be fruitful for all of us and please enjoy your stay in Surabaya.

Thank you very much.

Wassalamu'alaikum warahmatullahi wabarakatuh.

PROF. DR. H. FASICH, APT.

Rector of Universitas Airlangga



Ladies and Gentleman.

Assalamu'alaikum Warohmatullahi Wabarokatu.

Good morning,

On behalf of Organizing Committee the International Seminar and Second Congress of SOUTH EAST ASIA VETERINARY SCHOOL ASSOCIATION (SEAVSA), I would like to say thank you to the honorable: Rector Universitas Airlangga, East Java Governor, Director General Animal Health and Husbandry-Indonesia, Director General Animal Livestock and Services-Malaysia, Director of Animation Vet2011, President of World Veterinary Association, President and Leads of SEAVSA, President of Malaysian Veterinary Council, President of Indonesian Veterinary School Association, President of Indonesian Veterinary Medicine Association, President of FAVA, Chairman of Animal Husbandry- East Java Province and Surabaya City, to all our special guest: The Veterinary School Deans from Philippines (Los Bannos Philippines University), Malaysia (University Putra Malaysia and University Kelantan Malaysia), Thailand, (Kasetsart University, Chulalongkorn University, Khon Kaen University, Chiangmai University, Mahidol University, and Songkla University), Myanmar (National Myanmar University), and Indonesia (Institute Pertanian Bogor, Gajah Mada University, Universitas Airlangga, Udayana University, Syahkuala University), Deans of Indonesian Veterinary School Association (5 Universities that earlier mention before and Brawijaya University, University Nusa Tenggara barat, University Makasar and University Nusa Cendana, University Wijayakusuma), also the Deans comes from the other Faculty of Universitas Airlangga; Our Collaborates Institutions and Industries; To our proudly all the academic staffs and students from SEAVSA members and guest participants. Welcome to the event in Surabaya, the city which have specific icon or symbol "Sura it means Shark and Baya it means Crocodile". There is exactly, that Faculty of Veterinary Medicine, Universitas Airlangga founded in Surabaya, just why and not only learn about health aspect, public health, pre clinic and clinic, reproduction and production of pets, commodity, accompany, terrestrial animal, but also learn about aquatic and wild animals as well as the Surabaya city icon.

Ladies and Gentleman,

I am very great pleasure for your attended to the International Seminar and Second Congress of SEAVSA, that hosted by Faculty of Veterinary Medicine, Universitas Airlangga. It because of the God bless and love to us, therefore we could arranged the peach among Veterinary School in South East Asia region and the World for Strengthen and Establishment, Benchmarking and Branding our Veterinary School by global link. Alhamdulillah, thank you so much for The God. We have some opportunity to implement and realized our mission on "SOUTH EAST ASIA



I have the honour of welcoming delegates and speakers to Surabaya and the 2011 International Seminar and the 2nd Congress of SEAVSA.

Organised under the theme "Increasing Animal Production through Zoonoses and Reproductive Disorder Handling, and the Implementation of Biotechnology" this program was aimed to provide a forum for all those interested in sharing and discussing common concerns and up to date research in an attempt to recover the declining population and the genetic quality of animals contributed by the impact of global warming.

It is only through exchange of information that we can carefully develop strategic and medical intervention in handling zoonoses and reproductive disorders, as well as applied biotechnologies. So I hope you will take advantage of the many opportunities this program provides to network with colleagues from around Indonesia and overseas.

As chair of the program committee I would like to express our sincere gratitude and thanks to the President of SEAVSA for the given opportunity to host the 2nd SEAVSA Congress. It is a great privilege to be hosting the second Congress of SEAVSA, which together with the International Seminar was a part of the World Veterinary Year 2011 celebration.

The successful organisation of this program has required the dedication and time of all committee members. Much work went into preparing the program. I am very grateful for the financial support we have received from our sponsors which are recognised in this book. It would not be possible to hold this program without their support.

I do hope that this program will be found useful and that you will enjoy all aspects of it.

Sincerely,

SUZANITA UTAMA, M.PHIL., DVM.
Chair of the Organizing Committee



MESSAGES

ONE HEALTH SYSTEM", according to the theme of the International Seminar and the 2nd Congress of SEAVSA is 'Increasing Animal Production through Zoonoses and Reproductive Disorder Handling and the Implementation of Biotechnology'.

During these two days, the event programs include four main programs, such as plenary session, Celebration of Vet2011, Scientific session and Dean SEAVSA meeting, we hope all of you could follow the programs by pleased, savor and it will be beneficial for us.

In this moment, I would like to say thank you to:

1. Chairman of Indonesia-Managing Higher Education Relevance and Efficiency (IM-HERE) Project-Sub Component B.2.c. Performance Based Contract for supporting and funding the International Seminar.
2. Rector Universitas Airlangga for supporting and funding the Second Congress SEAVSA 2011 based on Annual Budgeting Plan 2011 of Universitas Airlangga.
3. President of OIE and Director of Animation Vet 2011 for given accreditation the event.
4. All the sponsors that supporting to the event.
5. All Keynote speaker and invited speaker
6. All the participants.

Finally, thank you very much for all the distinguish guest for your kindly and closely to all the participants, please have a nice time to enroll the event.

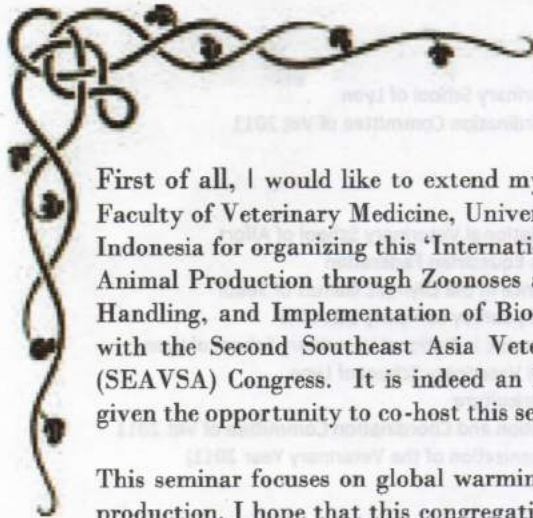
Wassalamu'alaikum Warohmatullahi Wabarok atu.

Thank you very much.

PROF. HJ. ROMZIAH SIDIK, PH.D., DVM.

Dean of the Faculty of Veterinary Medicine,
Universitas Airlangga, Surabaya-Indonesia

MESSAGES



First of all, I would like to extend my warmest gratitude to the Faculty of Veterinary Medicine, Universitas Airlangga, Surabaya, Indonesia for organizing this 'International Seminar on Increasing Animal Production through Zoonoses and Reproductive Disorder Handling, and Implementation of Biotechnology' in conjunction with the Second Southeast Asia Veterinary School Association (SEAVSA) Congress. It is indeed an honour for SEAVSA to be given the opportunity to co-host this seminar.



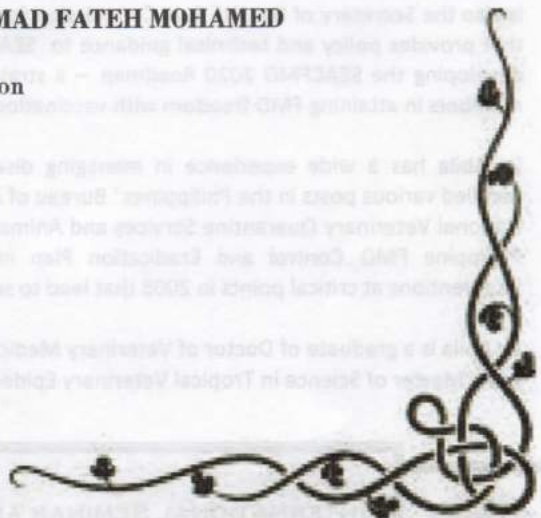
This seminar focuses on global warming and zoonoses and their impact on animal production. I hope that this congregation, which brings together various experts in these fields, will provide a forum for the formulation and initiation of strategies to address issues of global health. I would implore all participants to also use this opportunity to exchange ideas and knowledge for purpose of handling zoonotic and emerging diseases and improving production. I am confident that all participants will benefit from this event.

On behalf of SEAVSA, I would like to convey our sincere gratitude to the committee members for their dedicated, concerted and valiant effort in organizing and making this seminar a success. Special thanks to participants contributing through oral and poster presentations. To all participants, thank you for supporting this seminar.

Finally, I wish each and everyone a productive, rewarding and inspiring experience.

Thank you.

ASSOCIATE PROFESSOR DR BASHIR AHMAD FATEH MOHAMED
 President of SEAVSA
 South East Asia Veterinary School Association



**THE USE OF RECYCLE SOYBEAN FERMENTED CAKE (TEMPE) WITH
ASPERGILLUS NIGER AND *LACTOBACILLUS* AS CORN SUBSTITUTION
TO CARCASS AND ABDOMINAL FAT PERCENTAGE OF BROILER**

Sri Hidanah

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An experiment was conducted to evaluate the use of fermentation by product soybean fermented cake (tempe) with *Aspergillus niger* and *Lactobacillus* as corn substitution to carcass and abdominal fat percentage of broiler. This experiment was carried out using 24 broilers, started at two weeks of age and finished at five weeks of age, divided into four type treatment of three different level of fermentation by product soybean fermented cake (tempe) and six replications. Experimental method was based on Completely Randomized Design (CRD). The data obtained were analyzed by variance analysis and the difference between treatments with Duncan's test. P0 as a control, did not use fermentation by product soybean fermented cake (tempe), P1 was using 5 %, P2 was using 10 % and P3 was using 15 %. The result of this research showed that the use of fermentation by product soybean fermented cake (tempe) as corn substitution to carcass and abdominal fat percentage of broiler was not different significantly with control, so it can give a n effect as good as control (P0). From the results, it can be concluded that fermentation by product soybean fermented cake (tempe) could use as substitution of corn on maximal percentage mixed broiler feed.

Keywords : by product soybean fermentation, carcass, abdominal fat, broiler

Notes :



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THE USE OF RECYCLE SOYBEAN FERMENTED CAKE (TEMPE) WITH *ASPERGILLUS NIGER* AND *LACTOBACILLUS* AS CORN SUBSTITUTION TO CARCASS AND ABDOMINAL FAT PERCENTAGE OF BROILER

Sri Hidanah

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INTRODUCTION

The used of soybean limited only to the seed, otherwise waste such as recycle soybean is still rarely been used. The chemical composition of recycle soybean consist of 37,74% crude fibre, 34,9% crude protein, 0,23% Calcium, 0,58% phosphor, and others 26,06%. Then recycle soybean it self consist of dry matter cellulose 42-49%, hemicellulose 29-34%, and lignin 1-3%. The use of recycle soybean as livestock feed need a pretreatment as a mean to improve the nutrition value. One way which can be conducted is by exploiting *aspergillus niger* and *lactobacillus*.

AIM

An experiment was conducted to evaluate the use of fermentation by product soybean fermented cake (tempe) with *Aspergillus niger* and *Lactobacillus* as corn substitution to carcass and abdominal fat percentage of broiler.

MATERIAL AND METHOD

This experiment was carried out using 24 broilers, started at two weeks of age and finished at five weeks of age, divided into four type treatment of three different level of fermentation by product soybean fermented cake (tempe) and six replications. Experimental method was based on Completely Randomized Design (CRD). The data obtained were analyzed by variance analysis and the difference between treatments with Duncan's test. P0 as a control, did not use fermentation by product soybean fermented cake (tempe), P1 was using 5 %, P2 was using 10 % and P3 was using 15 %.

RESULT AND DISCUSSION

The result of this research showed that the use of fermentation by product soybean fermented cake (tempe) as corn substitution to carcass and abdominal fat percentage of broiler was not different significantly with control, so it can give an effect as good as control (P0).

Table 1. Average and Contents Deviation Standard of final body weight (g), Carcass (%), and Abdominal fat (%).

	Treatments			
	P0	P1	P2	P3
final body weight (g)	1336,67±58,19	1348,33±81,59	1366,67±89,14	1346,67±40,33
Carcass (%)	68,05±2,34	68,13±2,45	69,80±2,54	69,28±1,70
Abdominal Fat (%)	1,84 ^{ab} ±0,14	2,00 ^b ±0,29	2,04 ^b ±0,37	1,59 ^a ±0,26

Explanation: different superskrip in the same column show real difference ($p < 0,05$)

CONCLUSION

From the results, it can be concluded that fermentation by product soybean fermented cake (tempe) could use as substitution of corn on maximal percentage mixed broiler feed.



Aspergillus Niger



Lactobacillus



Recycle soybean fermented cake