

## Keynote Lecture Program

**Monday, 22 August [hotel nikko fukuoka]**

### Keynote Lecture

Monday, 22 August 13:00-17:00 Tsukushi Room

*Chair:* Kei Hanzawa Tokyo University of Agriculture

**L-01 The origin and genetic diversity of Japanese Wagyu**

Hideyuki Mannen

Laboratory of Animal Breeding and Genetics, Graduate School of Agricultural Science, Kobe University, Japan

**L-02 The application of heart rate reactions associated with behavior test in the predict of training success of guide dogs**

Fang Han, Zijuan Zhou, Jingyu Wang

Dalian Medical University, China

*Chair:* Takeyuki Ozawa Nippon Veterinary and Life Science University

**L-03 Empowering research capability for the sustainable animal production, environment and human resource development**

Metha Wanapat<sup>1</sup>, Anusorn Cherdthong<sup>1</sup>, Sungchhang Kang<sup>2</sup>, Chaowarit Mapato<sup>1</sup>

<sup>1</sup>Tropical Feed Resources Research and Development Center (TROFREC), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand

<sup>2</sup>Agricultural Unit, Department of Education, National Institute of Education, Cambodia

**L-04 The future of sheep production in New Zealand**

Hugh T. Blair

AL Rae Centre for Genetics and Breeding, IVABS, Massey University, New Zealand

## Symposium Program

### Day1: Tuesday, 23 August [Kyushu Sangyo University]

#### Symposium 01

Tuesday, 23 August 8:30-11:30 Room S207

##### **SY-01 Empowerment of Goat Farmer Through Mutual Trust**

*Organizer:* Tanri Giling Rasyid

Animal Science of Hasanuddin University, Indonesia

#### Symposium 02

Tuesday, 23 August 8:30-11:30 Room N202

##### **SY-02 Comparative Extraction and Analysis of Antioxidant Properties and Protein Potentials to The Total Scavenging Capacity from Indigenous Honey Bees of Indonesia**

*Organizer:* Firman Jaya

Department of Animal Food Technology, Faculty of Animal Husbandry, University of Brawijaya, Indonesia

#### Symposium 03

Tuesday, 23 August 8:30-12:30 Room N302

##### **SY-03 Animal Nutrition and Metabolism**

*Organizer:* Tohru Matsui

Japanese Society for Animal Nutrition and Metabolism, Japan

#### Symposium 04

Tuesday, 23 August 12:00-19:00 Room N204

##### **SY-04 CADIC International Symposium Livestock revolution in Asia -Risk and opportunity-**

*Organizer:* Tomoyuki Kawashima

Miyazaki University, Japan

## Day2: Wednesday, 24 August [Kyushu Sangyo University]

### Symposium 05

Wednesday, 24 August 8:30-11:30 Room N202

#### **SY-05 Mineral Toxic in Tropical Forage and Selected Tissue of Cattle**

*Organizer:* Syamsuddin Hasan

Animal Science of Hasanuddin University, Indonesia

### Symposium 06

Wednesday, 24 August 8:30-11:30 Room N203

#### **SY-06 Animal Physiology**

*Organizer:* Achadiyah Rachmawati

University of Brawijaya, Indonesia

### Symposium 07

Wednesday, 24 August 8:30-11:30 Room N204

#### **SY-07 Current Status of Animal Biotechnology and the Application for Livestock Production**

*Organizer:* Hiroshi Kagami

Faculty of Agriculture, Shinshu University, Japan

### Symposium 08

Wednesday, 24 August 8:30-12:00 Room N303

#### **SY-08 Future Beef Production in Asia**

*Organizer:* Takafumi Gotoh

Kyushu University, Japan

### Symposium 09

Wednesday, 24 August 10:00-11:30 Room S207

#### **SY-09 The new role and needs of traditional livestock, such as goats and chickens**

*Organizer:* Katsuyuki Yamashita

Fukuoka prefecture, Japan

## Day3: Thursday, 25 August [Kyushu Sangyo University]

### Symposium 10

Thursday, 25 August 13:30-16:30 Room N204

#### **SY-10 Impact, Adaptation and Mitigation of Heat-Stress in Livestock**

*Organizer:* Vishwajit Chowdhury

Faculty of Arts and Science, Kyushu University, Japan

## Workshop Program

### Day1: Tuesday, 23 August [Kyushu Sangyo University]

#### Workshop 01

Tuesday, 23 August 8:30-19:00 Room S201

##### **WS-01 Mitigation of greenhouse gases and adaptation to climate change in livestock production systems**

*Organizer:* Akio Takenaka

Food and Fertilizer Technology Center (FFTC) in Taiwan, Taiwan, Republic of China

#### Workshop 02

Tuesday, 23 August 9:00-11:00 Room S205

##### **WS-02 Dairy production with local feed resources in Asian countries**

*Organizer:* Taketo Obitsu

The Research Center for Animal Science, Hiroshima University, Japan

#### Workshop 03

Tuesday, 23 August 12:00-14:00 Room S205

##### **WS-03 Using lesser galangal (*Alpinia officinarum* Hance) on pig diet**

*Organizer:* Tai Nang Nguyen

Hung Vuong University, Vietnam

#### Workshop 04

Tuesday, 23 August 12:00-14:00 Room S206

##### **WS-04 Present situation and future prospect of goat production and the future direction in Asian-Australasian countries**

*Organizer:* Naoshige Abe

College of Agriculture Tamagawa University, Japan

## Day2: Wednesday, 24 August [Kyushu Sangyo University]

### Workshop 05

Wednesday, 24 August 9:00-11:00 Room S205

#### **WS-05 Gut mucosal functions and health in poultry**

*Organizer:* Yukinori Yoshimura

Research Center for Animal Science, Hiroshima University, Japan

### Workshop 06

Tuesday, 23 August 9:00-11:00 Room S206

#### **WS-06 The effect of climatic factors on semen characteristics of Merino rams in a subtropical environment**

*Organizer:* Ismaya Natawihardja

Faculty of Animal Science Universitas Gadjah Mada Indonesia, Indonesia

## Oral Session Program

**Day1: Tuesday, 23 August [Kyushu Sangyo University]**

### Oral Session 01: Focus Session Animal Breeding, Genetics & Reproduction

Tuesday, 23 August 9:00-11:00 Room N201

*Chairs:* Yoshinobu Uemoto National Livestock Breeding Center  
Koji Sugiura The University of Tokyo

**0-01-1 Improvement the accurate genetic estimation of milk yield trait by addition of wind speed to THI in crossbred Thai Holstein**

Watcharapong Teawyuneyong<sup>1</sup>, Monchai Duangjinda<sup>1,2</sup>, Sayan Buaban<sup>3</sup>, Vibuntita Chankitisakul<sup>1,2</sup>, Wuttigrai Boonkum<sup>1,2</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup> Thermo-tolerance Dairy Cattle Research Group, Khon Kaen University, Thailand,

<sup>3</sup> Bureau of Biotechnology in Livestock Production, Department of Livestock Development, Thailand

**0-01-2 Estimation of additive genetic variance due to each autosome for carcass traits in Japanese Black cattle**

Shinichiro Ogawa<sup>1</sup>, Hirokazu Matsuda<sup>1</sup>, Yukio Taniguchi<sup>1</sup>, Toshio Watanabe<sup>2</sup>, Yoshikazu Sugimoto<sup>3</sup>, Hiroaki Iwaisaki<sup>1</sup>

<sup>1</sup> Graduate School of Agriculture, Kyoto University, <sup>2</sup> National Livestock Breeding Center,

<sup>3</sup> Shirakawa Institute of Animal Genetics

**0-01-3 Analysis of realized heritability and other genetic parameters in a long-term selection experiment for non-destructive deformation in White Leghorns**

Olivier Gervais<sup>1</sup>, Keijiro Nirasawa<sup>2</sup>, Christian Vincenot<sup>1</sup>, Yoshitaka Nagamine<sup>3</sup>, Kazuyuki Moriya<sup>1</sup>

<sup>1</sup> Kyoto University, Graduate School of Informatics, <sup>2</sup> NARO Institute of Livestock and Grassland Science,

<sup>3</sup> Nihon University, College of Bio-resource Sciences

**0-01-4 Accuracy of Genomic-Polygenic Prediction for Milk Yield and Fat Percentage in the Thai Dairy Cattle Population**

Danai Jattawa<sup>1</sup>, Skorn Koonawootrittriron<sup>1</sup>, Mauricio A. Elzo<sup>2</sup>, Thanathip Suwanasopee<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand,

<sup>2</sup> Department of Animal Sciences, University of Florida, USA

**0-01-5 Screening of embryo secreted factors using bovine elongated embryos**

Hironori Masaka<sup>1</sup>, Sayed Ali Askar Musavi<sup>1,2</sup>, Md. Rashedul Islam<sup>1,3</sup>, Nobuhiko Yamauchi<sup>1</sup>

<sup>1</sup> Department of Animal and Marine Bioresource Sciences, Faculty of Agriculture, Kyushu University, Japan,

<sup>2</sup> Department of Animal Science Agriculture Faculty Balkh University Afghanistan,

<sup>3</sup> Department of Genetics and Animal Breeding, Faculty of Veterinary and Animal Science, Hajee Mohammad Danesh Science and Technology University, Bangladesh

**0-01-6 Genetic fluctuation study with microsatellite markers in germplasm-preserved Wujie Black Muscovy**

Yi-Ying Chang<sup>1,2</sup>, Jeng-Fang Huang<sup>3</sup>, Chih-Feng Chen<sup>2</sup>, Hsiu-Chou Liu<sup>1</sup>

<sup>1</sup> Ilan Branch, Livestock Research Institute, Council of Agriculture, Executive Yuan, Taiwan,

<sup>2</sup> Department of Animal Science, National Chung Hsing University, Taiwan,

<sup>3</sup> Livestock Research Institute, Council of Agriculture, Executive Yuan, Taiwan

**0-01-7 Establishment and characterization of bovine derived placenta stem cells**

Kang-You Liu, Shao-Yu Peng

National Pingtung University of Science and Technology

**0-01-8 Dynamics of spermatogenic cells on proliferation and desquamation during seasonal reproductive cycle in wild mice**

Jun Ito

Graduate school of science and technology in Niigata University

**0-01-9 Development of an in vitro model to study uterine functions using in vitro cultured rat uterine explants**

Md. Rashedul Islam<sup>1,2</sup>, Yuka Yoshii<sup>1</sup>, Yuko Ikeguchi<sup>1</sup>, Mohamed El-Sharawy<sup>1,3</sup>, Nobuhiko Yamauchi<sup>1</sup>

<sup>1</sup> Department of Animal and Marine Bioresource Sciences, Faculty of Agriculture, Kyushu University, Japan,

<sup>2</sup> Department of Genetics and Animal Breeding, Faculty of Veterinary and Animal Science, Hajee Mohammad Danesh Science and Technology University, Bangladesh,

<sup>3</sup> Animal Production Department, Faculty of Agriculture, Kafrelsheikh University, Egypt

**0-01-10 The effects of different oocyte mtDNA haplotypes on somatic cell nuclear transfer embryos**

Kanokwan Srirattana<sup>1,2</sup>, Justin C. St. John<sup>1,2,3</sup>

<sup>1</sup> Centre for Genetic Diseases, Hudson Institute of Medical Research, Australia,

<sup>2</sup> Department of Molecular and Translational Science, Monash University, Australia,

<sup>3</sup> MitoStock Pty Ltd, Australia

**Oral Session 02: Focus Session Animal Welfare & Health Management, others**

Tuesday, 23 August 9:00-11:00 Room N301

*Chair:* Masato Aoyama Utsunomiya University

**0-02-1 Estimation of nitrogen, phosphorus and potassium flows in dairy cattle production in western China**

Lin Wang<sup>1</sup>, S. T. Takashi Tanaka<sup>1,2</sup>, Hiroki Anzai<sup>1</sup>, Yuki Hama<sup>1</sup>, Kazato Oishi<sup>1</sup>, Chagan Irbis<sup>2</sup>, Hajime Kumagai<sup>1</sup>, Tatsuya Inamura<sup>1</sup>, Hiroyuki Hirooka<sup>1</sup>

<sup>1</sup> Graduate School of Agriculture, Kyoto University, Japan,

<sup>2</sup> Biotechnology Research Center, Kunming University of Science and Technology, China

**0-02-2 Influence of age on beef calves' play behaviour in an indoor and outdoor environment of a free barn**

Yi Zhang<sup>1</sup>, Ken-ichi Takeda<sup>2</sup>

<sup>1</sup> Shinshu University, Graduate School of Agricultural Science, Japan,

<sup>2</sup> Shinshu University, Academic Assembly, Institute of Agricultural, Japan

**0-02-3 A study on the correction factors between temperature-humidity index and body surface temperature for Hanwoo heifer (*Bos taurus coreanae*)**

SeYoung Jang<sup>1</sup>, Na-Yeon Kim<sup>1</sup>, Sung-Jin Kim<sup>1</sup>, Jung-Hwan Jeon<sup>2</sup>, Won-Mo Cho<sup>2</sup>, Byeong-Tae Jeon<sup>1</sup>, Sang-Ho Moon<sup>1</sup>

<sup>1</sup> Division of Food Bio Science, Konkuk University, <sup>2</sup> Nation Institute of Animal Science, ADA, Korea

**0-02-4 Milk Acidification to Control the Growth of Salmonella Dublin in Infected Milk**

Alysia Parker, Katrina Bosward, John House, Mark Hazelton, Paul Sheehy

The University of Sydney, Faculty of Veterinary Science, School of Life and Environmental Sciences

**0-02-5 Degradation of oleic acid and conversion to biogas during a mesophilic anaerobic process**

Yuki Matsumoto, Yasuhiro Fukuda, Yutaka Nakai, Chika Tada

Laboratory of Sustainable Animal Environmental Science, Graduate School of Agricultural Science, Tohoku University, Japan

**0-02-6 THE CHARACTERIZATION OF ADIPOSE TISSUE VIA A METABOLIC SYNDROME MINIPIG MODEL**

Chia-Yu Wang, Twin-Way Wu, Jyun-Wei Chen, Sin-Jin Li, Ching-Yi Chen

National Taiwan University

- 0-02-7 Differential levels of activity and stress response between Djungarian hamster (*P. sungorus*) and Robosovskii hamster (*P. roborovskii*)**  
 Hiromi Ikeda<sup>1</sup>, Takeshi Yamaguchi<sup>1</sup>, Momoko Kodaira<sup>1</sup>, Mohammad A. Bahry<sup>1</sup>, Vishwajit S. Chowdhury<sup>2</sup>, Shinobu Yasuo<sup>1</sup>, Mitsuhiro Furuse<sup>1</sup>  
<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,  
<sup>2</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University
- 0-02-8 The Role of Skeletal Muscle Glucocorticoid Receptors in Photoperiodic Response of Depression-like Behaviors**  
 Ayako Tashiro, Ryosei Goda, Satomi Shibata, Yusuke Takai, Tsuyoshi Otsuka, Tatsuhiro Uchiwa, Mitsuhiro Furuse, Shinobu Yasuo  
 Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University, Japan
- 0-02-9 Effect of postnatal photoperiod on body weight and metabolomics profiles in skeletal muscle and plasma in mice**  
 Tatsuhiro Uchiwa, Yusuke Takai, Ayako Tashiro, Satomi Shibata, Mitsuhiro Furuse, Shinobu Yasuo  
 Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University, Japan
- 0-02-10 Effect of mastitis on pregnancy function in prepartum goats**  
 Nozomi Kodama, Yukinori Yoshimura, Naoki Isobe  
 Hiroshima University

### Oral Session 03: Animal Nutrition (Non-Ruminants) (1)

Tuesday, 23 August 9:00-11:00 Room N303

*Chairs:* Rusdi Rusdi Tadulako University  
 Sirilaophaisan Srisuda Rajamongala University of Technology-Isan, Sakhonnakhon Campus

- 0-03-1 Effect of Natural Acidifier and Phytobiotic Addition in Non-Encapsulation and Encapsulation Form on Egg Quality of Laying Hens**  
 Maya Septiana<sup>1,2</sup>, Muhammad Halim Natsir<sup>2</sup>, Osfar Sjoftan<sup>2</sup>  
<sup>1</sup>Department of Tropical Agriculture and International Cooperation, National Pingtung University of Science and Technology, Taiwan,  
<sup>2</sup>Faculty of Animal Husbandry, University of Brawijaya, Indonesia
- 0-03-2 Is eleutherine (*Eleutherine americana*) potential as feed additive for poultry?**  
 Rusdi Rusdi, Asriani Hasanuddin, Rosmiaty Arief  
 Faculty of Animal Husbandry and Fisheries, Tadulako University, Palu Indonesia
- 0-03-3 UTILIZATION EFFECT OF BREAD WASTE AS CORN SUBSTITUTION ON HYBRID DUCK PERFORMANCES**  
 Irfan Djunaidi<sup>1</sup>, Dini Hardini<sup>1,2</sup>  
<sup>1</sup>The Assessment Institute for Agricultural Technology, Indonesia,  
<sup>2</sup>Faculty of Animal Husbandry, Brawijaya University, Indonesia
- 0-03-4 Responses of hens fed high levels of selenium from selenium-enriched kale sprout**  
 Anut Chantiratikul<sup>1</sup>, Lalita Borisuth<sup>1</sup>, Orawan Chinrasri<sup>1</sup>, Piyanete Chantiratikul<sup>2</sup>  
<sup>1</sup>Faculty of Technology, Mahasarakham University, <sup>2</sup>Faculty of Science, Mahasarakham University
- 0-03-5 Effect of water extract of Green Grass Jelly leaves (*Premna oblogifolia merr*) on Intestinal Characteristics and Performances of Laying Hen**  
 Eko Widodo, Edhy Sudjarwo, Anna Lidiyawati  
 University of Brawijaya Indonesia

### **O-03-6 EFFECT OF MINERAL MIXTURES SUPPLEMENTATION IN DRINKING WATER ON CARCASS QUALITY, GUT MORPHOLOGY AND GUT MICROFLORA OF BROILER CHICKENS**

Nurhazirah Shazali<sup>1</sup>, Teck Chwen Loh<sup>1,2</sup>, Hooi Ling Foo<sup>3,4</sup>, Jalaludin Syed<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture Universiti Putra Malaysia, Malaysia,

<sup>2</sup> Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia,

<sup>3</sup> Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences Universiti Putra Malaysia, Malaysia,

<sup>4</sup> Institute of Biological Science, Universiti Putra Malaysia, Malaysia

### **O-03-7 Effects of Multi-probiotics and Synbiotics on Laying Ducks Performance and Egg Quality**

Srisuda Sirilaophaisan<sup>1</sup>, Paiwan Punyakaew<sup>1</sup>, Pongsathorn Gunun<sup>1</sup>, Thachawech Kimprasit<sup>1</sup>, Nattaya Banglab<sup>2</sup>

<sup>1</sup> Rajamangala University of Technology Isan Sakon Nakhon Campus,

<sup>2</sup> K.M.P. Biotech Co., LTD.

### **O-03-8 Effect of Dried Tomato Meal (Solanum lycopersicum) in Diet on Performance and Egg Quality of Native Chickens**

Jein Rinny Leke, Jet Saartje Mandey, Jacqueline T Laihad, Friets Ratulangi

Sam Ratulangi University Animal Husbandry Faculty

### **O-03-9 Digestibility Value of Broiler Diet Containing Fresh Mulberry (Morus alba) Leaves**

Jet Saartje Mandey, Cathrien A Rahasia, Zebedeus Dady

Sam Ratulangi University Animal Husbandry Faculty

### **O-03-10 EFFECTS OF SUPPLEMENTAL EFFECTIVE MICROORGANISM ON PERFORMANCE, SOME HISTOLOGICAL AND BLOOD PARAMETERS OF BROILER**

Ladine Celik<sup>1</sup>, Mustafa Cikrikci<sup>1</sup>, Ugur Serbest<sup>1</sup>, Yusuf Uzun<sup>1</sup>, Sait Polat<sup>2</sup>, Fatma Yenilmez<sup>3</sup>, Mehmet Celik<sup>4</sup>, Osman Gulnaz<sup>5</sup>, Hasan Rustu Kutlu<sup>1</sup>

<sup>1</sup> Cukurova University Faculty of Agricultural Department of Animal Science,

<sup>2</sup> Cukurova University Faculty of Medicine Department of Department of Basic Medical Sciences,

<sup>3</sup> Cukurova University Vocational School of Tufanbeyli,

<sup>4</sup> Cukurova University Faculty of Fisheries Department of Fisheries and Seafood Processing Technology,

<sup>5</sup> Cukurova University Faculty of Education Department of Primary Education

## **Oral Session 04: Focus Session Animal Nutrition, Feeds and Feeding**

Tuesday, 23 August 11:30-13:30 Room N201

*Chairs:* Taketo Obitsu Hiroshima University  
Yasuo Kobayashi Hokkaido University  
Haoming Wu Okayama University

### **O-04-1 How do Thai consumers respond to quality of pork with different marbling levels?: a preliminary study in different age ranges**

Sawankamol Noidad<sup>1</sup>, Rutcharin Limsupavanich<sup>1</sup>, Suntaree Suwansichon<sup>2</sup>, Ronachai Sitthigripong<sup>1</sup>, Chanporn Chaosap<sup>3</sup>

<sup>1</sup> Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>2</sup> Department of Product Development, Faculty of Agro-Industry, Kasetsart University,

<sup>3</sup> Department of Agricultural Education, Faculty of Industrial Education, King Mongkut's Institute of Technology Ladkrabang, Thailand

### **O-04-2 THE ROLE OF FORAGES IN REDUCING HOUSEHOLD LABOUR DEMANDS OF CATTLE FEEDING DURING THE DRY SEASON IN CAMBODIA**

Katherine Ashley<sup>1</sup>, James Robert Young<sup>1</sup>, Kea Pha<sup>2</sup>, Sothoeun Suon<sup>2</sup>, Peter Andrew Windsor<sup>1</sup>, Russell David Bush<sup>1</sup>

<sup>1</sup> Faculty of Veterinary Science, The University of Sydney, Australia,

<sup>2</sup> Department of Animal Health and Production, Cambodia

**O-04-3 Influence of Season on the Yield and Nutritional Composition of *Indigofera zollingeriana* at Different Cutting Intervals**

Loretta Romero<sup>1</sup>, Edgar Orden<sup>2</sup>, Neal Del Rosario<sup>2</sup>, Jovani Jo Galamgam<sup>2</sup>, Rhanny Gonzales<sup>2</sup>

<sup>1</sup>Benguet State University, <sup>2</sup>Central Luzon State University

**O-04-4 Enrichment the Nutritive Value of Cassava Top Silage with Molasses and Urea Supplement Using Gas Production Technique**

Sungchhang Kang<sup>1</sup>, Metha Wanapat<sup>2</sup>, Ahkarapon Nuno<sup>2</sup>

<sup>1</sup>Agricultural Unit, Department of Education, National Institute of Education, Cambodia,

<sup>2</sup>Tropical Feed Resources Research and Development Center (TROFREC), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand

**O-04-5 The Effect of *Euglena* (*Euglena gracilis*) Supplementation on Intake, Digestibility and Nitrogen Balance in Sheep**

Aemiro Ashagrie<sup>1</sup>, Watanabe Shota<sup>2</sup>, Suzuki Kengo<sup>2</sup>, Hanada Masaaki<sup>1</sup>, Umetsu Kazutaka<sup>1</sup>,

Nishida Takehiro<sup>1</sup>

<sup>1</sup>Obihiro University of Agriculture and Veterinary Medicine, <sup>2</sup>Euglena Co., Ltd, Japan

**O-04-6 Influence of premix containing mangosteen peel powder and banana flower powder on rumen microbial population in swamp buffaloes**

Thiwakorn Ampapon<sup>1</sup>, Metha Wanapat<sup>1</sup>, Kampanat Phesatcha<sup>1</sup>, Sungchhang Kang<sup>2</sup>

<sup>1</sup>Tropical Feed Resources Research and Development Center (TROFREC), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup>Agricultural Unit, Department of Education, National Institute of Education, Cambodia

**O-04-7 Effect of crude glycerin in diets on growth performance, ruminal pH and blood metabolites of Kamphaeng Saen steers**

Nirandorn Nakdaeng, Lerchat Boonek, Sirirat Buaphan, Taweeporn Raungprim, Sutisa Majorune,

Wisut Maitreejet

Department of Animal Science, Faculty of Agriculture at Kamphaengsaen, Kasetsart University, Kamphaeng Saen Campus

**O-04-8 Effects of Diffructose Anhydride III Supplementation to Colostrum Replacers on Immunoglobulin G Absorption and Serum Immunoglobulin G in Newborn Calves**

Aung Htun<sup>1</sup>, Yasuhiro Suzuki<sup>2</sup>, Yuki Koike<sup>2</sup>, Tadashi Sato<sup>2</sup>, Masaaki Hanada<sup>2</sup>

<sup>1</sup>United Graduate School of Agricultural Science, Iwate University, Japan,

<sup>2</sup>Obihiro University of Agriculture and Veterinary Medicine, Japan

**O-04-9 Effects of mycosorbent mixed with turmeric (*Curcuma longa*) powder to ameliorate the toxic effects of mycotoxins contaminated corn in ducks**

Kantaphat Rattanasinthuphong<sup>1</sup>, Pawadee Pakdee<sup>1</sup>, Bundit Tengjaroenkul<sup>2</sup>

<sup>1</sup>Department of Animal science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup>Faculty of Veterinary Medicine, Khon Kaen University, Thailand

**O-04-10 Effects of fermentation period on chemical composition and in vitro digestibility of spineless cactus silage**

Hitomi Ichimura<sup>1</sup>, Satoshi Ishikawa<sup>2</sup>, Makoto Kondo<sup>3</sup>, Yoshiaki Hayashi<sup>1,2</sup>

<sup>1</sup>Graduate School of Agriculture, Meijo University, <sup>2</sup>Faculty of Agriculture, Meijo University,

<sup>3</sup>Graduate School and Faculty of Bioresources, Mie University

## Oral Session 05: Focus Session Poultry Science, Dairy Science and Industry

Tuesday, 23 August 11:30-13:30 Room N301

*Chair:* Khotimah Khusnul Muhammadiyah University in Malang

### 0-05-1 Expression And Localization Of Cyclooxygenases In The Oviduct Of Laying Hens During The Ovulatory Cycle

Moustafa Elhamouly<sup>1</sup>, Yukinori Yoshimura<sup>1,2</sup>, Naoki Isobe<sup>1,2</sup>

<sup>1</sup>Hiroshima University, Graduate School of Biosphere Science, <sup>2</sup>Hiroshima University, RCAS

### 0-05-2 Changes on bursal B cells during embryonic development and early life after the hatching in chicken

Kwang Hyun Ko<sup>1,2</sup>

<sup>1</sup>Department of Agricultural Biotechnology and Research Institute for Agriculture and Life Sciences, Seoul National University, Korea,

<sup>2</sup>Biomodulation major and Center for Food Bioconvergence, Seoul National University, Korea

### 0-05-3 Effects of probiotics on antimicrobial peptides and pro-inflammatory cytokines expression in response to LPS in the cecum of broiler chicks

Elsayed Mohammed<sup>1</sup>, NAOKI ISOBE<sup>1,2</sup>, YUKINORI YOSHIMURA<sup>1,2</sup>

<sup>1</sup>Grasuate School of Biosphere Science, Hiroshima University, <sup>2</sup>RCAS, Hiroshima University

### 0-05-4 CpG oligodeoxynucleotide from Streptococcus thermophilus induces type 2 innate lymphoid cells

Takuma Okajima<sup>1</sup>, Yoshinari Yamamoto<sup>2,3</sup>, Tasuku Ogita<sup>4</sup>, Takeshi Shimosato<sup>1,2,4</sup>

<sup>1</sup>Graduate School of Agriculture, Shinshu University,

<sup>2</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University,

<sup>3</sup>Research Fellow of the Japan Society for the Promotion of Science (JSPS),

<sup>4</sup>Institute for Biomedical Sciences, Shinshu University

### 0-05-5 Investigation of possible mechanisms of Lactobacillus kefiri of ameliorating hyperglycemia

Shun-Yu Huang, Ming-Ju Chen, Shih-Hung Wei

Department of Animal Science and Technology, National Taiwan University

### 0-05-6 Anti-Obesity Effect of Lactobacillus mali on High-Fat Diet-Induced Obesity

Yung-Tsung Chen<sup>1</sup>, Yu-Chun Lin<sup>1,2</sup>, Jin-Seng Lin<sup>3</sup>, Ming-Ju Chen<sup>1</sup>

<sup>1</sup>Department of Animal Science and Technology, National Taiwan University, Taiwan,

<sup>2</sup>Livestock Research Institute, Council of Agriculture, Executive Yuan, Taiwan, <sup>3</sup>SynbioTech Incorporation, Taiwan

### 0-05-7 Doi Moi (reformation) of production yield on dairy milk and rice in Vietnam

Hirimitsu Moriyama<sup>1</sup>, Xuan Luu Tang<sup>2</sup>

<sup>1</sup>The Open university of Japan, <sup>2</sup>Ba Vi cattle and forage reseach Center, National Institute of Animal Science

### 0-05-8 Cognitive and Physiological Effects of Microalgae-DHA Egg Consumption related to the Go/No-Go task in Healthy Thai Men.

Mongkol Kaewsutas<sup>1</sup>, Ariya Sarikaphuti<sup>1</sup>, Thamthiwat Nararatwanchai<sup>1</sup>, Prapas Patchanee<sup>2</sup>

<sup>1</sup>School of Antiaging and Regenerative Medicine, Mae Fah Luang University, Thailand,

<sup>2</sup>Faculty of Veterinary Medicine, Chiang Mai University

### 0-05-9 Construction of a platform for the identifying adulteration in fresh milk

Hsin-Wen Chang<sup>1</sup>, Ming-Ju Chen<sup>1</sup>, Cheng-Chih Hsu<sup>2</sup>, Ming-Lun Chiang<sup>3</sup>

<sup>1</sup>Department of Animal Science and Technology, National Taiwan University,

<sup>2</sup>Department of Chemistry, National Taiwan University,

<sup>3</sup>Department of Tourism and Hospitality Management, Kainan University

### 0-05-10 Sweet Threshold of Lysozyme from Indonesian Kampong Chicken and Cihateup Duck

Wulandari Zakiah<sup>1</sup>, Fardiaz Dedi<sup>2</sup>, Thenawijaya Maggy<sup>2</sup>, Dewi Yuliana Nancy<sup>2</sup>

<sup>1</sup>Department of Animal Production and Technology, Faculty of Animal Science, Bogor Agricultural Technology,

<sup>2</sup>Department of Food Science and Technology, Faculty of Agriculture and Technology, Bogor Agricultural University

## Oral Session 06: Animal Nutrition (Non-Ruminants) (2)

Tuesday, 23 August 11:30-13:30 Room N303

**Chairs:** Wahyu Widodo University of Muhammadiyah Malang  
 Theerawit Poeikhampha Kasetsart University  
 Djunaidi Irfan Brawijaya University

### **0-06-1 Influence of Fermented Pumpkin Supplementation on Growth Performance and Feed Utilization in Thai Native Pradu Hang Dum Chicken**

Chayut Dongpaleethun<sup>1</sup>, Somchart Thana<sup>2</sup>, Choke Sorachakura<sup>2</sup>, Norakamol Laorodphan<sup>3</sup>, Kawintra Khangkhan<sup>4</sup>, Khanchai Danmek<sup>4</sup>

<sup>1</sup> Phayao Livestock Research Station, Department of Livestock Development, Thailand,

<sup>2</sup> Program of Animal Science, School of Agriculture and Natural Resources, University of Phayao, Thailand,

<sup>3</sup> Program of Animal Science, Faculty of Food and Agricultural Technology, Pibulsongkram Rajabhat University, Thailand,

<sup>4</sup> Program of Biotechnology, School of Agriculture and Natural Resources, University of Phayao, Thailand

### **0-06-2 Effect of Proportion of Fatty Acids from Soybean Oil and Beef Tallow on Fatty Acids Accumulation in Egg Yolk**

Putthaporn Pumrojana<sup>1</sup>, Suwit Terapuntuwat<sup>2</sup>, Parwadee Pakdee<sup>2</sup>, Nitchanan Chukerd<sup>1</sup>, Nantiya Saetiew<sup>1</sup>, Watchara Ninphet<sup>1</sup>

<sup>1</sup> Division of Animal Science, Faculty of Science and Technology, Muban Chombueng Rajabhat University,

<sup>2</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University

### **0-06-3 Effect of Low Protein Amino Acid Supplementation on Growth Performance and avANT Gene Expression in the Muscle of Betong Chicken**

Wiriya LOONGYAI<sup>1</sup>, Jiraporn Marayat<sup>1</sup>, Panwadee Sopannarath<sup>1</sup>, Chaowit Rakangthong<sup>1</sup>, Theerawit Poeikhampha<sup>1</sup>, Kanokporn Pongpong<sup>1</sup>, Phongthorn Kongmun<sup>1</sup>, Phuwadol Bangrak<sup>2</sup>, Chaiyapoom Bunchasak<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Kasetsart University, Bangkok, Thailand 10900,

<sup>2</sup> School of Science, Walailak University, Thasala, Nakhonsithammarat, 80160, Thailand

### **0-06-4 Effect of Low Protein Amino Acid-Supplemented Diets on Growth Performance and Carcass Characteristics in Betong Chicken (KU Line)**

Jiraporn Marayat, Choawit Rakangthong, Panwadee Sopannarath, Chaiyapoom Bunchasak, Wiriya Loongyai

Department of Animal Science, Faculty of Agriculture at Kasetsart University, THAILAND

### **0-06-5 FEEDING VALUE OF FERMENTED SOYBEAN MEAL AND HYDROLYZED PEPTONE IN BROILERS**

Rhona Nina R. Reyes, Rommel C. Sulabo

Animal Nutrition Division, Animal and Dairy Sciences Cluster, University of the Philippines Los Baños, Philippines

### **0-06-6 Effect of Coconut Oil Supplementation in Diet on Performance, Carcass Quality and Coccidia Control in Broilers**

Chayanan Pukkung<sup>1</sup>, Parwadee Pakdee<sup>1</sup>, Bundit Tengjaroenkul<sup>2</sup>, Padsakorn Pootthachaya<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup> Department of Medicine, Faculty of Veterinary Medicine, Khon Kaen University, Thailand

### **0-06-7 The Combination of Coconut Oil and Turmeric Powder Supplementation in Diets on Performance, Carcass and Coccidia Control in Broilers.**

Padsakorn Pootthachaya<sup>1</sup>, Parwadee Pakdee<sup>1</sup>, Bundit Tengjaroenkul<sup>2</sup>, Chayanan Pukkung<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup> Department of Medicine, Faculty of Veterinary Medicine, Khon Kaen University, Thailand

### **0-06-8 Comparative Effect of Corn and Whole Wheat in Diets on Egg Production and Egg Quality of Laying Hens**

Theerawit Poeikhampha, Khanittha Saikhlai, Choawit Rakangthong, Chaiyapoom Bunchasak

Kasetsart University

**0-06-9 Effect of Corn Substitution with Noodle Waste and Fortified Noodle Waste on Growth Performance and Carcass Quality of Broilers**

Ahmad Windu Bahari<sup>1,2</sup>, Lathifah Fitriyani Dewi<sup>2</sup>, Muhammad Halim Natsir<sup>2</sup>, Osfar Sjojfan<sup>2</sup>

<sup>1</sup> Department of Tropical Agriculture and International Cooperation, National Pingtung University of Science and Technology, Taiwan,

<sup>2</sup> Faculty of Animal Husbandry, University of Brawijaya, Indonesia

**0-06-10 DIETARY FIBER DIGESTIBILITY AND APPARENT METABOLIZABLE ENERGY IN CASSAVA MEAL AND CASSAVA RESIDUE PELLET FED TO BROILERS**

Ung Putheany, Hazel Grace D. Masilungan, Rommel C. Sulabo

Animal Nutrition Division, Animal and Dairy Sciences Cluster, University of the Philippines Los Baños, Philippines

**Oral Session 07: Focus Session Animal Nutrition (Non-Ruminants) (1)**

Tuesday, 23 August 14:30-16:30 Room N201

*Chair:* Anut Chantiratikul Mahasarakham University

**0-07-1 Effect of L-leucine in ovo injection on post hatch performance in broiler chicks**

Guofeng Han<sup>1</sup>, Hui Yang<sup>1</sup>, Mohammad A Bahry<sup>1</sup>, Phuong V Tran<sup>1</sup>, Phong H Do<sup>1</sup>, Mitsuhiro Furuse<sup>1</sup>, Vishwajit S Chowdhury<sup>2</sup>

<sup>1</sup> Laboratory of Regulation in Metabolism and Behavior, Graduate School of Bioresource and Bioenvironmental Science, Kyushu University, Japan,

<sup>2</sup> Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan

**0-07-2 Effects of standardized ileal digestible (SID) methionine and cysteine levels on growth performance and blood parameter of pigs**

Chong Hau Goh<sup>1</sup>, Teck Chwen Loh<sup>1,2</sup>, Hooi Ling Foo<sup>3,4</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Universiti Putra Malaysia,

<sup>2</sup> Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia,

<sup>3</sup> Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences,

<sup>4</sup> Institute of Biological Science; Universiti Putra Malaysia, Malaysia

**0-07-3 Effects of different dietary oils and L-Arginine supplementation in diet on performance, intestinal morphology and serum immunoglobulin level in broiler**

Jannatara Khatun<sup>1,2</sup>, Teck Chwen Loh<sup>2</sup>, Henny Akit<sup>1</sup>, Hooi Ling Foo<sup>2</sup>, Rosfarizan Mohamad<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, University Putra Malaysia, Malaysia,

<sup>2</sup> Department of Animal Science and Nutrition, Chittagong Veterinary and Animal Sciences University, Bangladesh

**0-07-4 Effects of Standardized Ileal Digestible Valine:lysine Ratio on Performance, Milk Composition and Plasma Indices of Lactating Sows**

Yetong Xu, Zhikai Zeng, Xiao Xu, Qiyu Tian, Xiaokang Ma, Shenfei Long, Xiangshu Piao

China Agricultural University

**0-07-5 Angelica gigas Nakai root powder supplementation improves growth performance and modulates splenic heat shock proteins of broiler chickens**

Wenchie Marie Lumbera<sup>1</sup>, Emil Joseph Vergara<sup>1</sup>, Seung-Hak Yang<sup>2</sup>, Seong-Gu Hwang<sup>1</sup>

<sup>1</sup> Department of Animal Life and Environmental Science, Hankyong National University, Korea,

<sup>2</sup> National Institute of Animal Science, Rural Development Administration, Korea

**0-07-6 EFFECT OF SUPPLEMENTAL ZINC SOURCES AND ZINC FEEDING REGIMEN ON GROWTH PERFORMANCE, DIARRHEA OCCURRENCE AND GUT INTEGRITY IN NURSERY PIGS**

Noel B. Lumbo<sup>1</sup>, Therese A. Collantes<sup>2</sup>, Rommel C. Sulabo<sup>1</sup>

<sup>1</sup> Animal and Dairy Sciences Cluster, University of the Philippines Los Baños, Philippines,

<sup>2</sup> College of Veterinary Medicine, University of the Philippines Los Baños, Philippines

**0-07-7 Effect of Dried Banana (*Musa sapientum* L.) in Diet on Growth Performance and Intestinal Morphology of Nursery Pigs**

Tanachot Pengsawad, Chaipayoom Bunchasak, Choawit Rakangthong, Theerawit Poeikhampha  
Kasetsart University

**0-07-8 Effect of Dietary Fish Oil in Combination with Tomato Powder on Egg Polyunsaturated Fatty Acids Profile of Native Laying Hens**

Faizal Andri<sup>1</sup>, Aji Sukoco<sup>2</sup>, Taufich Hilman<sup>2</sup>, Eko Widodo<sup>3</sup>

<sup>1</sup> Postgraduate Student, Faculty of Animal Husbandry, University of Brawijaya, Indonesia,

<sup>2</sup> Alumni, Faculty of Animal Husbandry, University of Brawijaya, Indonesia,

<sup>3</sup> Department of Animal Nutrition and Feed Science, Faculty of Animal Husbandry, University of Brawijaya, Indonesia

**0-07-9 Effect of  $\alpha$ -Galactosidase Supplementation in Diet on Egg Production and Egg Quality of Laying Hens**

Chonladda Harnkaew, Chaipayoom Bunchasak, Choawit Rakangthong, Theerawit Poeikhampha  
Kasetsart University

**0-07-10 BIOLOGICAL EFFICACY OF L-METHIONINE AS SUPPLEMENTAL METHIONINE SOURCE IN BROILER DIETS**

Krystalene S. Decena, Rommel C. Sulabo

Animal Nutrition Division, Animal and Dairy Sciences Cluster, University of the Philippines Los Baños, Philippines

**Oral Session 08: Animal Breeding (1)**

Tuesday, 23 August 14:30-16:30 Room N202

*Chairs:* Luqman Hakim University of Brawijaya  
Aubrey Joy Macugay Balbin ISABELA STATE UNIVERSITY

**0-08-1 Contribution of genotyped cow inclusion in the Holstein bull reference population on genomic evaluation**

Yoshinobu Uemoto, Takefumi Osawa, Junichi Saburi  
National Livestock Breeding Center

**0-08-2 PHENOTYPIC RELATIONSHIPS AMONG SOMATIC CELL COUNT AND UDDER TRAITS IN DAIRY GOATS**

Mauricio Valencia-Posadas<sup>1</sup>, Lisa Shepard<sup>2</sup>, Abner J Gutiérrez-Chávez<sup>1</sup>, Alma A Lechuga-Aranna<sup>1</sup>, César A Ángel-Sahagún<sup>1</sup>

<sup>1</sup> Life Science Division, CIS, University of Guanajuato, <sup>2</sup> American Dairy Goat Assoc. USA

**0-08-3 THE STUDY OF QUANTITATIVE AND QUALITATIVE TRAITS FOR RABBIT F1 CROSSBREDS**

Mudawamah Mudawamah<sup>1,3</sup>, Irawati Dinasari Retnaningtyas<sup>1</sup>, M Zainul Fadli<sup>2</sup>, Gatot Ciptadi<sup>3</sup>

<sup>1</sup> Faculty of Animal Science, University of Islam Malang, <sup>2</sup> Faculty of Medicine, University of Islam Malang,

<sup>3</sup> Faculty of Animal Husbandry, Brawijaya University

**0-08-4 BALI CATTLE OUTPUT INSTALLATION OF POPULATION IN THE AREA POTENTIAL AS A SOURCE OF BALI CATTLE BREEDING**

Agus Budiarto, Luqman Hakiim, VM. Ani Nurgiartiningsih, Gatot Ciptadi  
Faculty of Animal Husbandry, Brawijaya University

**0-08-5 POPULATION STRUCTURE AND PERFORMANCE OF PO CATTLE, CASE STUDY IN CITY OF PROBOLINGGO, EAST JAVA, INDONESIA**

Veronica Margareta Ani Nurgiartiningsih<sup>1</sup>, Agus Budiarto<sup>1</sup>, Suprih Bambang Siswijono<sup>1</sup>, Retno Wandansari<sup>2</sup>

<sup>1</sup> University of Brawijaya Malang, <sup>2</sup> Department of Agriculture Probolinggo

- 0-08-6 Improvement of Bali Cattle Performance by Additional Concentrate in Sumbawa Island, Indonesia**  
Luqman Hakim, Veronica Margareta Ani Nurgartiningih, Agus Budiarto  
 University of Brawijaya
- 0-08-7 Growth and Milk Production of Thai Milking Zebu Cattle**  
 Krongkaew Borisutsawat<sup>1</sup>, Mattaneeya Sarakul<sup>2,3</sup>, Sutida Onsongchun<sup>1</sup>, Danai Jattawa<sup>2</sup>,  
 Jirayut Khemsawat<sup>2</sup>, Thanathip Suwanasopee<sup>2</sup>, Skorn Koonawootrittriron<sup>2</sup>  
<sup>1</sup> Bureau of Animal Husbandry and Genetic Improvement, Department of Livestock Development,  
<sup>2</sup> Department of Animal Science, Faculty of Agriculture, Kasetsart University,  
<sup>3</sup> Department of Animal Science, Faculty of Agriculture and Technology, Nakhon Phanom University
- 0-08-8 Genetic Polymorphism at Growth Hormone Receptor and Prolactin locus in Friesian Holstein Crossbred Cows**  
Sucik Maylinda, Tri Eko Susilorini  
 Brawijaya University
- 0-08-9 PHENOTYPE AND GENOTYPE CHARACTERISTIC OF FILIAL ETAWAH DAIRY GOAT**  
Tri Eko Susilorini  
 Brawijaya University
- 0-08-10 ROLE OF ARTIFICIAL INSEMINATION ON THE PROPAGATION OF IMPROVED BREEDS OF GOAT IN NORTHERN LUZON, PHILIPPINES**  
Jonathan Nayga, Aubrey Joy Balbin  
 Isabela State University Echague, Philippines

### Oral Session 09: Livestock Economics (1)

Tuesday, 23 August 14:30-16:30 Room N203

*Chairs:* Shiu Yin Leu Livestock Research Institute, COA, Executive Yuan.  
 Nurtini Sudi Faculty of Animal Science Universitas Gadjah Mada  
 Charoensook Rangsun Naresuan University

- 0-09-1 FACTORS INFLUENCE ON SMALLHOLDER DAIRY FARMING INCOME (Case Study in Malang, Indonesia)**  
Hari Utami, Sapti Maining, Ainun Seruni  
 Brawijaya University
- 0-09-2 EFFECT OF HUMAN CAPITAL AND PRICE LEVEL PERIOD ON THE BROILER FARMER INCOME IN SURAKARTA INDONESIA**  
Nurtini Sudi, Haryadi Trisakti, Jafendi Hasoloan Purba Sidadolog, Abdul Hakim  
 Faculty of Animal Science Universitas Gadjah Mada Indonesia
- 0-09-3 THE DETERMINATION OF BUSINESS SCALE OF COW FARMERS USING BREAK EVEN POINT ANALYSIS IN KEBAR DISTRICT OF WEST PAPUA PROVINCE**  
Trisiwi Wahyu Widayati<sup>1</sup>, Andoyo Supriyantono<sup>2</sup>, Onesimus Yoku<sup>3</sup>, Iriani Sumpé<sup>4</sup>  
 Papua University
- 0-09-4 Indigenous Chicken and Fighting Cock Production Systems in Thailand**  
Rangsun Charoensook, Sonthaya Numthuum, Tossaporn Incharoen, Wandee Tartrakoon,  
 Attachai Kewsri  
 Naresuan University, Faculty of Agriculture Natural Resources and Environment

- 0-09-5 Cutting Costs and Retail Cuts Incomes in Holstein Bull Carcasses**  
Hasan Cicek<sup>1</sup>, Murat Tandogan<sup>1</sup>, Recep Kara<sup>2</sup>  
<sup>1</sup> Afyon Kocatepe University, Faculty of Veterinary Medicine Department of Animal Health Economics and Management,  
<sup>2</sup> Afyon Kocatepe University, Faculty of Veterinary Medicine, Department of Food Hygiene and Technology
- 0-09-6 PERSPECTIVE OF ORGANIC FEED MATERIAL AVAILABILITY AS A MAIN COMPONENTS IN THE BROILER FEED AT MALANG REGENC**  
Adi Sutanto, WAhyu Widodo, Imbang Dwi Rahayu  
 University of Muhammadiyah Malang
- 0-09-7 A Comparison of Cattle Fattening System With and Without Credit in Two Districts in East Java, Indonesia**  
I Gusti Ayu Putu Mahendri<sup>1,2</sup>, Scott Waldron<sup>1</sup>, Malcolm Wegener<sup>1</sup>, R. A. Cramb<sup>1</sup>  
<sup>1</sup> Indonesian Centre for Animal Research and Development, Bogor Indonesia,  
<sup>2</sup> The School of Agriculture and Food Science, University of Queensland, Australia
- 0-09-8 AN INVESTIGATION OF ENTREPRENEURIAL ORIENTATION TO IMPROVE COMPETITIVENESS OF BEEF CATTLE FARMING IN KEBUMEN DISTRICT, INDONESIA**  
Mochamad Sugiarto  
 Jenderal Soedirman University
- 0-09-9 Decreases of milk yield after conception of mature dairy cattle in tropical environment**  
Kanokwan Noikhrua, Wassana Chaisri, Paramintra Vinitchaikul, Wittaya Suriyasathaporn  
 Chiang Mai University
- 0-09-10 PIGS DEVELOPMENT ANALYSIS AND TECNOLOGIES INTRODUCTION IN THE VILLAGE OF TEMPOK**  
FIETJE S.G Oley, A H S Salendu, FH Elly  
 Faculty of Animal Husbandry University of Sam Ratulangi

## Oral Session 10: Animal Reproduction (1)

Tuesday, 23 August 14:30-16:30 Room N301

*Chairs:* Takeshi Osawa University of Miyazaki  
 Trinil Susilawati Animal Husbandry Faculty of Brawijaya University, Indonesia  
 Rungroekrit Umaporn Faculty of Veterinary Medicine, Mahanakorn University of Technology  
 Tomohiro Sasanami Shizuoka University

- 0-10-1 REPRODUCTIVE PERFORMANCES OF HOLSTEIN FRIESIAN HEIFERS AND COWS INSEMINATED WITH SEXED SEMEN**  
Buddhi Chamara Kalansooriya<sup>1,2</sup>, H M Gayani Priyadarshani Herath<sup>1</sup>  
<sup>1</sup> Department of Livestock Production, Faculty of Agricultural Sciences, Sabaragamuwa University of Sri Lanka, Sri Lanka,  
<sup>2</sup> New Zealand Farm, Sri Lanka
- 0-10-2 Bovine oviducts express higher macrophage migration inhibitory factor on the post-ovulation phase than on the estrous and corpus luteum phases**  
Nahar Asrafun, Hiroya Kadokawa  
 Yamaguchi University Faculty of Veterinary Medicine
- 0-10-3 Gas Sensors For Electronic Nose And Their Application To Determine Estrus Phase In Cattle.**  
Pudji Astuti, Claude Mona Airin, Slamet Widiyanto  
 Faculty of Veterinary Medicine, Universitas Gadjah Mada, Indonesia

**0-10-4 EFFECTS OF FEED SUPPLEMENT ON THE ARTIFICIAL INSEMINATION EFFICIENCY OF BEEF COWS UNDER SMALL FARMS CONDITION IN INDONESIA**

A. Latief Toleng<sup>1</sup>, Muhammad Yusuf<sup>1</sup>, Surya Darma<sup>2</sup>

<sup>1</sup>Hasanuddin University, Indonesia, <sup>2</sup>Department of Livestock Services, Indonesia

**0-10-5 SPERM FERTILITY DIFFERENCES ONGOLE CROSSBRED CATTLE IN EGG YOLK TRIS AMINOMETHAN AND EGG YOLK CAUDA EPIDIDIMIS DILUTERS DURING COOLING PROCESS**

Trinil Susilawati, Nolasco Dacosta, Nurul Isnaini, M Nur Ihsan, Priyo Sugeng Winarto, Aulia Puspita Anugra Yekti

Animal Husbandry Faculty of Brawijaya University Indonesia

**0-10-6 Potential of Evaporative System Improving Pregnancy Rate in Recipient Heifers after Embryo Transfers in Thailand**

Umaporn Rungroekrit, Jatuporn Kajaysri

Clinic for Obstetrics Gynecology Andrology and Artificial Insemination of Domestic Animals, Faculty of Veterinary Medicine, Mahanakorn University of Technology, Thailand

**0-10-7 Factor affecting sperm uptake into the sperm storage tubules in Japanese quail (*Coturnix japonica*)**

Tomohiro Sasanami<sup>1,2</sup>, Mei Matsuzaki<sup>1,2</sup>, Shusei Mizushima<sup>3</sup>

<sup>1</sup>Shizuoka University, <sup>2</sup>Gifu University, <sup>3</sup>University of Toyama

**0-10-8 Effect of Mangosteen (*Garcinia mangostana*) Pericarp Filtrate in Skim Milk Diluter on Bali Bull Diluted Semen Quality at room temperature**

Nurul Isnaini, Trinil Susilawati, Aulia Puspita Anugra Yekti

Animal Husbandry Faculty of Brawijaya University Indonesia

**0-10-9 The Quality of Chilled Semen Ongole Crossbred Cattle with the Replacement of Source Albumin in Cauda Epididymal Plasma-2 Diluter**

Aulia Puspita Anugra Yekti<sup>1</sup>, Enike Dwi Kusumawati<sup>2</sup>, Nisau Sholikah<sup>1</sup>, Muchamad Luthfi<sup>3</sup>, Lukman Affandhy<sup>3</sup>, Dicky Pamungkas<sup>3</sup>, Kuswati Kuswati<sup>1</sup>, Aswah Ridhowi<sup>1</sup>, Herni Sudarwati<sup>1</sup>, Nurul Isnaini<sup>1</sup>, Trinil Susilawati<sup>1</sup>

<sup>1</sup>Animal Husbandry Faculty of Brawijaya University, Indonesia,

<sup>2</sup>Animal Husbandry Faculty of Kanjuruhan University, Indonesia, <sup>3</sup>Beef Cattle Research Station, Pasuruan Indonesia

**0-10-10 Association between number of follicles at the onset of Shortsynch and fertility in Japanese Black cows**

Takeshi Osawa<sup>1</sup>, Masashi Tanaka<sup>1</sup>, Yuji Tsubakishita<sup>1</sup>, Takashi Ekawa<sup>1</sup>, Koichiro Hemmi<sup>2</sup>, Ikuo Kobayashi<sup>2</sup>, Mizuho Uematsu<sup>3</sup>, Go Kitahara<sup>1</sup>

<sup>1</sup>Laboratory of Theriogenology, University of Miyazaki, <sup>2</sup>Sumiyoshi Livestock Science Station, University of Miyazaki,

<sup>3</sup>Department of Production Medicine, NOSAI Miyazaki

**Oral Session 11: Animal Nutrition (Ruminants) (1)**

Tuesday, 23 August 14:30-16:30 Room N302

*Chairs:* Indah Prihartini Faculty of Agriculture and Animal Science, University of Muhammadiyah Malang  
 Ifar Subagiyo University of Brawijaya  
 Samsudin Anjas Asmara Universiti Putra Malaysia, Faculty of Agriculture  
 Nguyen The Thao Khon Kaen University

**0-11-1 Effect of *Kaempferia galanga* L. on in vitro nutrients digestibility, ruminal fermentation and methane production**

Asih Kurniawati<sup>1,2</sup>, Widodo<sup>1</sup>, Wayan T Artama<sup>2</sup>, Lies Mira Yusiati<sup>1</sup>

<sup>1</sup>Faculty of Animal Science Universitas Gadjah Mada, <sup>2</sup>Faculty of Veterinary, Universitas Gadjah Mada

**0-11-2 EVALUATION ON INNOCULUM OF CYTOPHAGA Sp AS PROBIOTIC IN RUMINANT BY IN VITRO GAS PRODUCTION APPROACH**

Indah Prihartini

Faculty of Agriculture and Animal Husbandry, University of Muhammadiyah Malang

**0-11-3 The Effect of Rejected Soybean Supplementation with Different Treatments on Onggole Crossbred Cattle Feed**

Bambang Suhartanto<sup>1</sup>, Ristianito Utomo<sup>1</sup>, Satria Budi Kusuma<sup>1</sup>, Dian Astuti<sup>2</sup>

<sup>1</sup> Faculty of Animal Science, Gadjah Mada University, <sup>2</sup> Center of Agrotechnology Innovation, Gadjah Mada University

**0-11-4 Effects of nitrate, extracted chitosan or shrimp shell meal on degradability and In Vitro gas production**

Thao Nguyen The<sup>1,2</sup>, Metha Wanapat<sup>2</sup>

<sup>1</sup> Department of Animal Science and Veterinary Medicine, Faculty of Agriculture and Natural Resources, An Giang University, Vietnam,

<sup>2</sup> Tropical Feed Resources Research and Development Center (TROFREC), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand

**0-11-5 Existing Feed Balance in Mixed Farming Systems in an Agricultural City of Probolinggo in East Java of Indonesia**

Ifar Subagiyo<sup>1,2</sup>, Veronica Margareta Ani Nurgiantiningsih<sup>1</sup>, Suprih Bambang Siswijono<sup>1</sup>, Mashudi Mashudi<sup>1</sup>

University of Brawijaya

**0-11-6 METAGENOMIC ANALYSES OF RUMEN FIBROLYTIC BACTERIA SWAMP BUFFALO**

Anjas Asmara Samsudin<sup>1,2</sup>, Maisara Amin<sup>1</sup>, Teck Chwen Loh<sup>1,2</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia,

<sup>2</sup> Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia

**0-11-7 The Characteristic of Microencapsulation of Sesame Oil with Different Coating Materials and its effect on in vitro rumen fermentation**

Sri Suharti, Farisa Diftairani, Raden Noviani, Asep Sudarman, Suryahadi Suryahadi

Department of Nutrition and Feed Technology, Faculty of Animal Science, Bogor Agriculture University

**0-11-8 Bacterial communities of milk and cow shed samples in relation to changes of the somatic cell count**

Haoming Wu<sup>1</sup>, Yusuke Sugimoto<sup>2</sup>, Yuji Tanabe<sup>2</sup>, Takeshi Turuda<sup>1</sup>, Naoki Nishino<sup>1</sup>

<sup>1</sup> Okayama University, <sup>2</sup> Okayama Livestock Research Institute

**0-11-9 THE EFFECT OF HARVESTING INTERVAL ON NUTRITIVE VALUE OF DWARF ELEPHANT GRASS (Pennisetum purpureum CV Mott)**

Artharini Irsyammawati

Animal Husbandry Faculty Brawijaya University

**0-11-10 Somatic embryogenesis and regeneration of Brachiaria decumbens from immature inflorescences**

Nilo Suseno<sup>1</sup>, Fitria Gemma Tyasari<sup>1</sup>, Rani Agustina<sup>2</sup>, Bambang Suwignyo<sup>1</sup>, Bambang Suhartanto<sup>1</sup>, Nafiatul Umami<sup>1</sup>

<sup>1</sup> Dept. of Animal Nutrition Faculty of Animal Science Gadjah Mada University Indonesia,

<sup>2</sup> Dept. of Agronomy Faculty of Agriculture Gadjah Mada University Indonesia

## Oral Session 12: Animal Nutrition (Non-Ruminants) (3)

Tuesday, 23 August 14:30-16:30 Room N303

*Chairs:* Sung Woo Kim North Carolina State University  
Mandey Jet Saartje Faculty of animal husbandry University of Sam Ratulangi

### 0-12-1 The effects of dietary spirulina (*Spirulina platensis*) on growth performance, skin color and nutritional digestibility in Thai native chicken

Buaream Maneewan<sup>1</sup>, Tonglian Buwjoom<sup>1</sup>, Koh-en Yamauchi<sup>2</sup>

<sup>1</sup> Faculty of Animal Science and Technology, Maejo University, Thailand,

<sup>2</sup> Faculty of Agriculture, Kagawa University, Japan

### 0-12-2 Effect of Palm Oil and Free Fatty Acid Substitution in Diets on Growth Performance and Carcass Yield of Broilers

Pitsiree Sirimart, Chaipayoom Bunchasak, Choawit Rakangthong, Theerawit Poeikhampha  
Kasetsart University

### 0-12-3 COMPARISON OF NUTRITION CONTENT OF ORGANIC FEED FROM VARIOUS AREAS IN EAST JAVA AS POTENTIAL EXPLORATION OF LOCAL POULTRY FEED

Wahyu Widodo, Imbang Dwi Rahayu, Adi Sutanto

University of Muhammadiyah Malang

### 0-12-4 THE EFFECT OF USING OF FERMENTATION ORGANIC FEED ON KAMPONG CHICKEN HEALTH STATUS

Imbang Dwi Rahayu, Adi Sutanto, Wahyu Widodo

University of Muhammadiyah Malang

### 0-12-5 High acid value rendering oil can replace soybean oil in broiler feeds

Cheng-Wei Wang<sup>1</sup>, Kuo-Lung Ku<sup>2</sup>, Cheng-Yang Chuang<sup>2</sup>, Kuo-Lung Chen<sup>1</sup>

<sup>1</sup> Department of Animal science, National Chiayi University, Taiwan,

<sup>2</sup> Department of Applied Chemistry, National Chiayi University, Taiwan

### 0-12-6 Comparative the Dietary Protein and Energy Basis in Feed Formulation on Production Performance and Carcass Yield of broilers

Suwipa Buttarach, Chaipayoom Bunchasuk, Kanokporn Pongpong, Theerawit Poeikhampha  
Kasetsart University

### 0-12-7 Effect of Nutrient Density and Phytase Supplementation in Diets on Growth Performance, Carcass Yield and Bone Condition of Broilers

Wararat Arparjirasakul, Chaipayoom Bunchasuk, Choawit Rakangtong, Theerawit Poeikhampha  
Kasetsart University

### 0-12-9 Improving broiler growth performance through dietary supplementation with *Aspergillus niger*-fermented wheat bran

Ming-Tsung Chen<sup>1</sup>, Ya-Wen Kang<sup>1</sup>, Tsang-Chyi Shiah<sup>2</sup>, Kuo-Lung Chen<sup>1</sup>

<sup>1</sup> Department of Animal Science of National Chiayi University,

<sup>2</sup> Department of Wood Based Materials and Design of National Chiayi University

### 0-12-10 Effect of Folic Acid and Docosahexaenoic Acid (DHA) Supplementation in diet and Incorporation in Egg of Laying Hens

Nuttawut Krutthai<sup>1</sup>, Chaipayoom Bunchasak<sup>2</sup>, Naruemol Sangsawang<sup>2</sup>, Wiriya Loongyai<sup>2</sup>,  
Chanwit Kaewtapee<sup>2</sup>, Theerawit Poeikhampha<sup>2</sup>

<sup>1</sup> Department of Agricultural Technology and Development, Faculty of Agricultural Technology, Chiang Mai Rajabhat University, Thailand,

<sup>2</sup> Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand

## Oral Session 13: Focus Session Animal Nutrition (Non-Ruminants) (2)

Tuesday, 23 August 17:00-19:00 Room N201

*Chairs:* Eko Widodo

University of Brawijaya

Ahmad Mohammad Abdel Mageed

Faculty of Science, Minia University, Egypt

### **0-13-1 Effects of plant soot on the growth performance, immunological indices, intestinal morphology and microflora in weaned piglets**

Liqi Wang, Bing Dong, Lin Zhu, Chucai Peng, Limin Gong

China Agricultural University

### **0-13-2 Responses in colostrum production and immunoglobulin concentrations to conjugated linoleic acid fed to multiparous sows during late gestation**

Fei Wu<sup>1</sup>, Peili Li<sup>1</sup>, Lili Bai<sup>1</sup>, Hu Liu<sup>1</sup>, Changhua Lai<sup>1</sup>, Philip Thacker<sup>2</sup>, Fenglai Wang<sup>1</sup>

<sup>1</sup> State Key Laboratory of Animal Nutrition, Ministry of Agriculture Feed Industry Centre, China Agricultural University, China,

<sup>2</sup> Department of Animal and Poultry Science, University of Saskatchewan, Canada

### **0-13-3 Effect of long-term feeding of n-6 to n-3 fatty acid ratio in laying hen diets on yolk fatty acid accumulation**

Thanan Yaemphet, Wittawat Molee, Sutisa Khempaka

Suranaree University of Technology

### **0-13-4 EFFECTS OF SUPPLEMENTING PIG DIETS WITH DIETARY IRON LEVELS, TRYPTOPHAN AND PYRIDOXINE ON PERFORMANCE OF WEANING PIGLETS**

WANTAMAS JANTASIN<sup>1</sup>, LIANG CHOU HSIA<sup>2</sup>

<sup>1</sup> Faculty of Animal Science and Technology, Maejo University, Thailand,

<sup>2</sup> Department of Tropical Agriculture and International Cooperation, National Pingtung University of Science and Technology, Taiwan (ROC)

### **0-13-5 Effect of Different Fat Types With or Without Emulsifier on Growth Performance and Meat Quality in Broiler Chicken**

Nur Fadzmira Huda Mohd Faudzi<sup>1</sup>, Teck Chwen Loh<sup>1,2</sup>, Henny Akit<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, University of Putra Malaysia,

<sup>2</sup> Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia

### **0-13-6 Tannin Is a Key Negative Factor in Determination and Prediction of Energy Content in Sorghum Grains for Growing Pigs**

Long Pan, Ping Li, Xiaokang Ma, Yetong Xu, Qiyu Tian, Ling Liu, Defa Li, Xiangshu Piao

State Key Laboratory of Animal Nutrition, Ministry of Agriculture Feed Industry Centre, China Agricultural University

### **0-13-7 Effects of Tetrabasic Zinc Chloride on the Performance, Diarrhea Incidence, Antioxidant Capacity, Intestinal Morphology and Fermentation Profile of Weaned Piglets**

Tian Xia, Wenqing Lai, Yiqiang Chen, Miaomiao Han, Jumei Xie, Limin Gong, Liying Zhang

State Key Laboratory of Animal Nutrition, Ministry of Agriculture Feed Industry Centre, China Agriculture University

### **0-13-8 Effects of Deoxynivalenol on Cell Proliferation, Apoptotic Lesion and DNA Damage in Spleen of Taiwan Country Chickens**

Stephanie S. Chen, Mei-Fong Lin

National Taiwan University

### **0-13-9 Effects of replacement of dietary fish meal by fermented meat-and-bone meal on growth performance of broilers**

Yi-Tai Hsu, Kuo-Lung Chen

Department of Animal Science, National Chiayi University, Taiwan

## 0-13-10 EFFECT OF INCREASING LEVELS OF HYDROLYZED PEPTONE IN EARLY CHICK DIETS ON PRODUCTION PERFORMANCE, EXCRETA QUALITY AND DIET ECONOMICS

Marie Fe M. Iranzo, Jeff C. Ebio, Krystalene S. Decena, Rommel C. Sulabo

Animal Nutrition Division, Animal and Dairy Sciences Cluster, University of the Philippines Los Baños, Philippines

### Oral Session 14: Animal Breeding (2)

Tuesday, 23 August 17:00-19:00 Room N202

*Chairs:* Takdir Saili Universitas Halu Oleo, Indonesia  
Yoshitaka Nagamine Nihon University  
Lumatauw Sintje University of Papua

## 0-14-1 Characteristics of Egg Production, Fertility and Hatchability of F1 Local Village Chicken Cross in Southeast Sulawesi, Indonesia

Takdir Saili, Syam Rahadi, Amrullah Pagala, Rusli Badaruddin, La Ode Nafiu, Ali Bain

Universitas Halu Oleo, Indonesia

## 0-14-2 ALLELIC FREQUENCY OF 24-BP INDEL (INSERTION-DELETION) IN PROMOTER PROLACTIN GENE OF PAPUA LOCAL CHICKENS

Sintje Lumatauw, M. Affan Mu'in

University of Papua

## 0-14-3 Genetic parameters of Body Weight Gain and Growth Curve Parameter Traits in Korean Native Chicken

Manjula Prabuddha<sup>1</sup>, Hee-Bok Park<sup>1</sup>, Dong-Won Seo<sup>1</sup>, Nu-Ri Choi<sup>1</sup>, Shil Jin<sup>1</sup>, Sung Jin Ahn<sup>2</sup>, Jun-Heon Lee<sup>1</sup>

<sup>1</sup> Division of Animal and Dairy Science, Chungnam National University, Korea,

<sup>2</sup> Department of Information Statistics, RINS, Gyeongsang National University, Korea

## 0-14-4 The effect of GH gene and IGF-I gene on dominant effect of bodyweight of Korat chicken

Kaewnakian Porntiwa, Petladda Kuadsantia, Rujjira Bunnom, Pongchan Na-Lampang, Surintorn Boonanuntanasarn, Amonrat Molee

School of Animal Production Technology, Institute of Agricultural Technology, Suranaree University of Technology

## 0-14-5 Variance Components and Heritability Estimates on Carcass Traits in Betong Chicken (KU Line)

Panatda Bungsrissawat<sup>1</sup>, Sornthep Tumwasorn<sup>1</sup>, Wiriya Loongyai<sup>1</sup>, Sasitorn Nakthong<sup>2</sup>, Panwadee Sopannarath<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Kasetsart University, THAILAND,

<sup>2</sup> Department of Animal Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University, Kamphaeng Saen Campus, THAILAND

## 0-14-6 Relationship between eggshell strength and egg shape in White Leghorns

Yoshitaka Nagamine<sup>1</sup>, Yoko Suzuki<sup>1</sup>, Olivier Gervais<sup>2</sup>, Keijiro Nirasawa<sup>3</sup>

<sup>1</sup> Nihon University, <sup>2</sup> Kyoto University, <sup>3</sup> NARO Institute of Livestock and Grassland Science

## 0-14-7 COMBINING ABILITY OF GROWTH TRAITS IN BLACK-BONE (BLACK-BONE HMONG, BLACK-BONE CHINESE) AND THAI NATIVE CHICKENS (PRADU-HANG DAM)

PIRIYAPORN SUNGKHAPREECHA<sup>1,2</sup>, Monchai Duangjinda<sup>1</sup>, Banyat Laopaiboon<sup>1</sup>, Wuttigrai Boonkum<sup>1</sup>

<sup>1</sup> Research and development network center for animal breeding (native chicken), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup> Graduate school, Khon Kaen University, Thailand

## 0-14-8 Estimation of Growth Curve Parameters in Betong Chicken (KU Lines)

Panwadee Sopannarath<sup>1</sup>, Arraya Jeanmas<sup>2</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand,

<sup>2</sup> Faculty of Science and Technology, Prince of Songkla University, Pattani campus, Thailand

**0-14-9 Effect of housing system on expression of antioxidant enzyme and heat stress genes in commercial native chicken**

Natthaya Duanghaklang<sup>1</sup>, Monchai Duangjinda<sup>1,2</sup>, Kanop Sujikara<sup>3</sup>, Banyat Laopaiboon<sup>2</sup>, Yupin Phasuk<sup>1,2</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup> Research and Development Network Center for Animal breeding (Native Chicken), Khon Kaen University, Thailand,

<sup>3</sup> Tanaosree Thai Chicken Co., Ltd., Thailand

**0-14-10 Cholesterol of Black-Bone, Thai Native and Their Crossbreds Chickens**

Sukanya Charoensin<sup>1</sup>, Banyat Laopaiboon<sup>2</sup>, Wuttigrai Boonkum<sup>1,2</sup>, Sajee Kanharaeng<sup>1,2</sup>,  
Pitcharut Sanchaisuriya<sup>1,2</sup>, Monchai Duangjinda<sup>1,2</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup> Research and Development Network Center for Animal Breeding (Native Chicken), Khon Kaen University, Thailand

**Oral Session 15: Livestock Economics (2) / Poultry Science & Industry**

Tuesday, 23 August 17:00-19:00 Room N203

*Chair:* Widiati Rini Faculty of Animal Science Universitas Gadjah Mada

**0-15-1 The performance of livestock extension agent in empowerment of farmers at Pinrang Regency, South Sulawesi, Indonesia**

AGUSTINA ABDULLAH

Department of Sosio-Economic of Animal Science, Hasanuddin University, Indonesia

**0-15-2 PRODUCTION SYSTEMS AND INCOME GENERATION FROM THE BLIGON GOAT FARMING IN THE RURAL COMMUNITY IN GUNUNGKIDUL OF YOGYAKARTA PROVINCE, INDONESIA**

Rini Widiati

Faculty of Animal Science, Universitas Gadjah Mada

**0-15-3 COMMUNICATION FLOWS AND ADOPTION OF INNOVATION IN GOAT FARMING, PURWOREJO, INDONESIA**

Budi Guntoro<sup>1</sup>, Subejo<sup>2</sup>, Wahyudi<sup>3</sup>

<sup>1</sup> Universitas Gadjah Mada Faculty of Animal Science, <sup>2</sup> Universitas Gadjah Mada Faculty of Agriculture,

<sup>3</sup> Office of Agriculture, Livestock and Fishery, Regency of Purworejo

**0-15-4 Estimating Consumer's Response to Livestock Products Food Quality: Evidence from Households in Indonesia**

Mujtahidah Anggriani Ummul Muzayyanah, Suci Paramitasari Syahlani, Rini Widiati

Faculty of Animal Science, Universitas Gadjah Mada

**0-15-5 The Analysis of Cost and Benefit of the Managerial Accounting on the Dairy Goat Farms in Taiwan(2012,10~2013,9)**

Shiu yin Leu

Management Division Livestock Research Institute, COA, Executive Yuan.

**0-15-6 DECREASING BLOOD LIPID PROFILE AND INCREASING WELFARE ON DUCKS WITH PHYTOBIOTICS SUPPLEMENTATION IN THE DIET**

Ismoyowati Ismoyowati, Mochamad Mufti

Universitas Jenderal Soedirman

**0-15-7 Reproductive Performance and Expression of Mucin in the Lower Segment of Oviduct Between Indonesian Native Naked-Neck and Normal Feathered Chicken**

Bambang Ariyadi, Jafendi Sidadolog, Sri Harimurti, Sri Sudaryati, Wihandoyo Wihandoyo, Heru Sasongko

Universitas Gadjah Mada

**0-15-8 Effects of pine bark extract (flavangenol®) on heat shock protein expression in chicks**

Hui Yang<sup>1</sup>, Vishwajit S Chowdhury<sup>2</sup>, Mohammad A Bahry<sup>1</sup>, Phuong V Tran<sup>1</sup>, Phong H Do<sup>1</sup>, Guofeng Han<sup>1</sup>, Rong Zhang<sup>3</sup>, Hideki Tagashira<sup>4</sup>, Masahito Tsubata<sup>4</sup>, Mitsuhiro Furuse<sup>1</sup>

<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Graduate School of Bioresource and Bioenvironmental Science, Kyushu University, Japan,

<sup>2</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan,

<sup>3</sup>Division of Endocrinology, Department of Medicine, Boston Children's Hospital, Harvard Medical School, USA,

<sup>4</sup>Research and Development Division, Toyo Shinyaku Co., Ltd., Japan

**0-15-9 COMPARATIVE STUDY OF NUTRITIONAL CONTENT AND PROTEIN PROFILE OF MALAYSIA EDIBLE BIRD NEST**

STALIN JOEFREY<sup>1,3</sup>, AINI IDERIS<sup>1,3</sup>, INTAN SAFINAR ISMAIL<sup>5</sup>, FARIDAH ABAS<sup>5</sup>, JALILA ABU<sup>1,3</sup>, NORASFALIZA RAHMAD<sup>6</sup>, MOKRISH AJAT<sup>1,2</sup>, ROZAIHAN MANSOR<sup>1,4</sup>

<sup>1</sup>Centre of Excellence on Swiftlets, Faculty of Veterinary Medicine, Universiti Putra Malaysia,

<sup>2</sup>Department of Veterinary Preclinical Sciences, Faculty of Veterinary Medicine, Universiti Putra Malaysia,

<sup>3</sup>Department of Veterinary Clinical Studies, Faculty of Veterinary Medicine, Universiti Putra Malaysia,

<sup>4</sup>Department of Medicine and Surgery of Farm and Exotic Animal, Faculty of Veterinary Medicine, Universiti Putra Malaysia,

<sup>5</sup>Laboratory of Natural Products, Institute of Bioscience, Universiti Putra Malaysia,

<sup>6</sup>Agro-Biotechnology Institute Malaysia, National Institutes of Biotechnology Malaysia, c/o MARDI Headquarters, Malaysia

**0-15-10 The Effects of Red Onion Extract in the Pulmonary Histopathological Lesions of Layer Chickens At 47 Days Old**

Riskha Nataria

Gadjah Mada University

**Oral Session 16: Animal Reproduction (2)**

Tuesday, 23 August 17:00-19:00 Room N301

Chair: Junya Ito Azabu University

**0-16-1 The Effect of Sexed Semen Methods Toward Motility and Ratio of X and Y Sperm Filial Ongole Cattle**

Enike Dwi Kusumawati<sup>1</sup>, Nurul Isnaini<sup>2</sup>, Aulia Puspita Anugra Yekti<sup>2</sup>, Nisau Sholikhah<sup>3</sup>, Muchamad Luthfi<sup>4</sup>, Lukman Affandhy<sup>4</sup>, Dicky Pamungkas<sup>4</sup>, Kuswati<sup>2</sup>, Aswah Ridhowi<sup>2</sup>, Herni Sudarwati<sup>2</sup>, Trinil Susilawati<sup>2</sup>

<sup>1</sup>Animal Husbandry Faculty, Kanjuruhan University, Indonesia,

<sup>2</sup>Animal Husbandry Faculty, Brawijaya University, Indonesia,

<sup>3</sup>Student of Animal Husbandry Faculty, Brawijaya University, Indonesia,

<sup>4</sup>Beef Cattle Research Station, Indonesia

**0-16-2 Effect of Post-Mortem Storage of Testicles on the Quality and Fertilizing Ability of Water Buffalo Epididymal Sperm**

LERMA OCAMPO<sup>1,2</sup>, EDENEIL JEROME VALETE<sup>1</sup>, EVARISTO ABELLA<sup>2</sup>, MARLON OCAMPO<sup>1</sup>

<sup>1</sup>Reproductive Biotechnology Unit, Philippine Carabao Center, National Headquarters and Gene Pool,

<sup>2</sup>Department of Biological Sciences, College of Arts and Sciences, Central Luzon State University

**0-16-3 Calf Birth Weight and Post Partum Estrus Bali Cow Fed Complete Feed From Palm Oil Plantation in Central Borneo Indonesia**

Mudhita Ida Ketut<sup>1</sup>, Baliarti Endang<sup>2</sup>, Priyono Sasmito Budhi Subur<sup>2</sup>, Umami Nafiatul<sup>2</sup>, Noviandi Cuk Tri<sup>2</sup>, Kustono<sup>2</sup>, Suparta Budisatria I Gede<sup>2</sup>, Wattimena Jeffrie<sup>3</sup>

<sup>1</sup>Antakusuma University Faculty of Agriculture, <sup>2</sup>Gadjah Mada University Faculty of Animal Science,

<sup>3</sup>Pattimura University Faculty of Agriculture

**0-16-4 Milk Production of Sows Superovulated with PMSG and hCG Through Superovulation Before Mating**

Mien Theodora Rossesthellinda Lapien<sup>1</sup>, Pollung Siagian<sup>2</sup>, Wasmen Manalu<sup>2</sup>, Rudy Priyanto<sup>2</sup>, Petrus Montong<sup>1</sup>

<sup>1</sup> Sam Ratulangi University, <sup>2</sup> Bogor Institute of Agriculture

**0-16-5 Effect of Sericin Supplementation on Motility and Plasma Membrane Integrity of Frozen-Thawed Dairy Cattle Bull Semen**

Yotsapon Yangngam<sup>1</sup>, Vibuntita Chankitisakul<sup>1,2</sup>, Monchai Punprom<sup>1</sup>, Saowaluk Suton<sup>1</sup>, Thevin Vongpralab<sup>1,2</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, KhonKaen University, Thailand, <sup>2</sup> Thermo-tolerance Dairy Cattle Research Group, KhonKaen University, Thailand

**0-16-6 Anti Bovine Pregnancy Associated Glycoprotein (anti-bPAG) 60kDa as Biomarker Candidate For Early Detection of Ruminant Pregnancy**

Aulanniam Rifai<sup>1</sup>, Min Rahmatilla<sup>1</sup>, Sonnya Oktaviani Helina<sup>1</sup>, Dyah Kinasih Wuragil<sup>1</sup>, Agung Pramana Marhendra<sup>3</sup>

<sup>1</sup> Brawijaya University, Faculty of Veterinary Medicine, <sup>2</sup> Brawijaya University, Faculty of Sciences

**0-16-7 Effects of straws size on the quality of cryopreserved Thai native chicken semen**

Pachara Thananurak<sup>1</sup>, Napapach Chuaychu-noo<sup>1</sup>, Pornjit Sornseeda<sup>2</sup>, Saennamphung Somtaw<sup>3</sup>, Thevin Vongpralab<sup>3</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand, <sup>2</sup> Faculty of Agricultural and Technology, Nakhon Phanom University, Thailand, <sup>3</sup> Research and Development Network Center for Animal Breeding (Native chicken), Faculty of Agriculture, Khon Kaen University, Thailand

**0-16-8 Production and Reproductive Performance of Bali Cattle at Different Maintenance System**

Woro Busono, Dwi Dedeh Kurniasari

Brawijaya University

**0-16-9 Expression of prolactin and prolactin regulatory element binding protein in the anterior pituitary gland of chicken embryo and laying hens.**

Norio Kansaku<sup>1</sup>, Yasuko Tobari<sup>1</sup>, Gen Hiyama<sup>1</sup>, Naokazu Minoguchi<sup>2</sup>, Masazumi Numata<sup>2</sup>, Masatoshi Kino<sup>2</sup>, David Zadworny<sup>3</sup>

<sup>1</sup> Azabu University, <sup>2</sup> Aichi Agricultural Research Center, <sup>3</sup> McGill University

**0-16-10 Spermatozoal transcriptome analysis in boars with varying fertility reveals differential expression of genes related to metabolism, fertilisation and zygote development**

Narayana H Mohan, P.P Gokuldas, Lipika Buragohain, Madan Kumar Tamuli, Dilip Kumar Sarma

ICAR-National Research Centre on Pig, India

**Oral Session 17: Feeds & Feeding (Ruminants) (1)**

Tuesday, 23 August 17:00-19:00 Room N302

*Chairs:* Toshiyoshi Ichinohe Shimane University

Yusuf Akhyar Sutaryono Faculty of Animal Science University of Mataram

**0-17-1 Effect of Concentrate Feed Containing Fermented Pumpkin and Cassava On Growth Performance of Beef Cattle**

Khanchai Danmek<sup>1</sup>, Tosawat Anorach<sup>1</sup>, Somchart Thana<sup>2</sup>, Chayut Dongpaleedham<sup>3</sup>, Norakamol Laorodphan<sup>4</sup>, Choke Sorachakura<sup>2</sup>

<sup>1</sup> Program of Biotechnology, School of Agriculture and Natural Resources, University of Phayao, Thailand, <sup>2</sup> Program of Animal Science, School of Agriculture and Natural Resources, University of Phayao, Thailand, <sup>3</sup> Phayao Livestock Research Station, Department of livestock development, Thailand, <sup>4</sup> Faculty of Food and Agricultural Technology, Pibulsongkram Rajabhat University, Thailand

- 0-17-2 The Survey of nutritive value of By-products from Oil palm that use for raise Beef Cattle**  
 Sitthisak Jantararat, Thaintip Kraiprom, Narumon Sanajit  
 Prince of Songkla University
- 0-17-3 Microorganisms Composition of Tropical TMR's Silage Inoculated with Local Lactic Acid Bacteria**  
 Ahmad Wahyudi<sup>1</sup>, Listiari Hendraningsih<sup>1</sup>, Dicky Pamungkas<sup>2</sup>, Roy Hendroko Setyobudi<sup>3</sup>  
<sup>1</sup> Faculty of Agriculture and Animal Husbandry, Muhammadiyah Malang University, Indonesia,  
<sup>2</sup> Institute of Beef Cattle Research, Indonesia,  
<sup>3</sup> Sinarmas Aggroresources and Technology Tbk., Indonesia
- 0-17-4 FORAGE GROWING AND HAY MAKING OF CLITORIA TERNATEA FOR DRY SEASON FEED SUPPLEMENT IN EAST NUSA TENGGARA, INDONESIA**  
 Jacob Nulik, Debora Kana Hau  
 East Nusa Tenggara Assessment Institute for Agriculture Technology
- 0-17-5 Effect of temperature and underground storage of stem sections on emergence and establishment of nursery plants of dwarf Napier grass**  
 Yasuyuki Ishii<sup>1</sup>, Yusuke Iki<sup>2</sup>, Satoru Fukagawa<sup>3</sup>, Sachiko Idota<sup>1</sup>  
<sup>1</sup> Faculty of Agriculture, University of Miyazaki, <sup>2</sup> Graduate School of Agriculture, University of Miyazaki,  
<sup>3</sup> Nagasaki Agricultural and Forestry Technical Development Center
- 0-17-6 Fermentation characteristics of tropical grass using in vitro gas production technique**  
 Chaowarit Mapato, Metha Wanapat  
 Tropical Feed Resources Research and Development Center (TROFREC), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand
- 0-17-7 Increasing Fattening Performance of Bali cattle by Improving Post Weaning Growth Through Supplementation with Sesbania grandiflora**  
 Dahlanuddin Dahlanuddin<sup>1</sup>, Baiq Tutik Yuliana<sup>1</sup>, Oscar Yanuarianto<sup>1</sup>, Tanda Sahat Panjaitan<sup>2</sup>, Michael Halliday<sup>3</sup>, Harry Max Shelton<sup>3</sup>  
<sup>1</sup> Faculty of Animal Science University of Mataram, Indonesia,  
<sup>2</sup> Assessment Institute for Agricultural Technology, Indonesia,  
<sup>3</sup> School of Agriculture and Food Sciences, The University of Queensland, Australia
- 0-17-8 Study of Digestibility Value of Oil Palm By Product Ration and Its Effect on The Performance of Bali Cattle**  
 Fariani Armina, Muslim Gatot, Wahyuni Dyah, Priyanto Langgeng, Abrar Arfan  
 Department of Animal Science, Agriculture Faculty of Sriwijaya University, Indonesia
- 0-17-9 Optimizing Rice Straw Utilization for Bali Cattle Fattening as Adaptation Strategy to Climate Change for Smallholder Farmers in Lombok Indonesia**  
 Yusuf Akhyar Sutaryono<sup>1</sup>, Muhammad Ali<sup>1</sup>, Made Sriasih<sup>1</sup>, Muhammad Taufik Fauzi<sup>2</sup>  
<sup>1</sup> Faculty of Animal Science University of Mataram, <sup>2</sup> Faculty of Agriculture University of Mataram
- 0-17-10 Different level of vitamin in Calf Milk Replacer effect on calf blood parameters and calf development**  
 Harumi Ono<sup>1</sup>, Akira Saito<sup>2</sup>, Tatsuhiro Matsuno<sup>3</sup>, Takeshi Hayashi<sup>1</sup>, Shuji Ueda<sup>1</sup>, Takeshi Baba<sup>1</sup>  
<sup>1</sup> Fukuoka Agriculture and Forestry Research Center,  
<sup>2</sup> Zen-Raku-Ren The National Federation Dairy Co-operative Association,  
<sup>3</sup> Judicial Agricultural Union Kusunoki Dairy Farming production Association

## Oral Session 18: Animal Nutrition (Non-Ruminants) (4)

Tuesday, 23 August 17:00-19:00 Room N303

*Chair:* Henny Akit Universiti Putra Malaysia

**0-18-1 The Effects of Using Corn with Various Phytic Acid in Diets on Performance, Phosphorus and Calcium Serum in Nursery Pigs**

Pattaraporn Poommarin

Faculty of Animal Sciences and Agricultural Technology, Silpakorn University

**0-18-2 Dietary fish oil regulates glucose and lipid metabolism genes via porcine peroxisome proliferator-activated receptor  $\gamma$**

Yu-Hsiang Yu

Department of Biotechnology and Animal Science, National Ilan University

**0-18-3 Effect of feeding of noni fruit powder (*Morinda citrifolia*) based herbal supplement on production and meat quality in hybrid duck**

David Kurniawan, Widodo Eko, Djunaidi Irfan H

Brawijaya University

**0-18-4 Effects of Supplemental  $\beta$ -Mannanase to Provide Substrates for Binding to Aflatoxin in Feed on Growth and Health of Pigs**

Sung Woo Kim, Kayla Leanne Brooks, Alexandra C. Weaver

North Carolina State University

**0-18-5 Efficacy of Supplemental Bacteriophages on Growth and Gut Health of Pigs**

Kayla Leanne Brooks, Sung Woo Kim

North Carolina State University

**0-18-6 Identification of a possible probiotic *Bacillus coagulans* substrain that modulate the fecundity of the laying hen**

Toshiyuki Ito<sup>1,2</sup>, Hirokuni Miyamoto<sup>1,3,4</sup>, Wataru Suda<sup>3,5</sup>, Shinji Fukuda<sup>3,6</sup>, Ryo Watanabe<sup>1</sup>, Shota Yoshikawa<sup>1</sup>, Hisashi Miyamoto<sup>4</sup>, Hiroshi Ohno<sup>6</sup>, Masahira Hattori<sup>5,7</sup>, Hiroaki Kodama<sup>1</sup>

<sup>1</sup> Chiba University, <sup>2</sup> Keiyo plant engineering Ltd., <sup>3</sup> Keio University, <sup>4</sup> Sermas Ltd., <sup>5</sup> Tokyo University, <sup>6</sup> RIKEN IMS, <sup>7</sup> Waseda University

**0-18-7 THE EFFECTS OF GROUND RAW ALEURITES MOLUCCANA L. (Willd) KERNEL ON PERFORMANCE OF LAYING HENS**

Rohaida Abdul Rasid<sup>1</sup>, Abd Razak Alimon<sup>2</sup>

<sup>1</sup> Faculty of Sustainable Agriculture, University Malaysia Sabah, Malaysia, <sup>2</sup> Faculty of Animal Husbandry, Universitas Gadjahmada, Indonesia

**0-18-8 HAEMATOLOGICAL AND PERFORMANCE PARAMETERS OF BROILER SUPPLEMENTED BY *Tinospora crispa* L. Miers EXTRACT**

Syam Rahadi<sup>1</sup>, Astriana Napirah<sup>1</sup>, La Malesi La Malesi<sup>1</sup>, La Ode Arsyad Sani<sup>1</sup>, Dian Agustina<sup>1</sup>, Natsir Sandiah<sup>1</sup>, La Ode Baa<sup>1</sup>, Rahman Rahman<sup>1</sup>, Widhi Kurniawan<sup>1</sup>, Ayu Utami Bakhtiar<sup>2</sup>, Wa Ode Astriyani Sari<sup>2</sup>

<sup>1</sup> Faculty of Animal Science, Universitas Halu Oleo, <sup>2</sup> Graduate of Faculty of Animal Science, Universitas Halu Oleo

**0-18-9 Effects of Dietary Supplementation of Organic Cottonseed Meal Level on Meat Quality Characteristics of Slow-Growing Broilers Reared in Organic System**

Kamil Kucukyilmaz<sup>1</sup>, Mehmet Bozkurt<sup>2</sup>, Mustafa Çınar<sup>2</sup>, Erol Bintaş<sup>2</sup>, Mertcan Demircioğlu<sup>3</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Eskişehir Osmangazi University, Eskişehir-Turkey, <sup>2</sup> General Directorate of Research, Erbeyli Research Institute, Aydın-Turkey, <sup>3</sup> İzmir Food Control Laboratory Directorate, İzmir-Turkey

**0-18-10 SULFADIAZINE RESIDUE IN THE LIVER, BREAST MEAT, AND PERFORMANCE OF BROILER SUPPLEMENTED BY TURMERIC (*Curcuma domestica* Valet) MEAL**

Rahman Rahman, La Ode Nafiu, Syam Rahadi, Deki Zulkarnain, Astriana Napirah

Faculty of Animal Science, Universitas Halu Oleo, Kendari

## Day3: Thursday, 25 August [Kyushu Sangyo University]

### Oral Session 19: Milk, Eggs and By-products

Thursday, 25 August 8:30-10:30 Room S207

*Chairs:* Peter Wynn Charles Sturt University  
 Yelnetty Afriza Faculty of Animal Husbandry University of Sam Ratulangi  
 Kensuke Arakawa Okayama University

- 0-19-1 Evaluation of Lactic Acid Bacteria from Ettawah Crossbred Goat Milk as Probiotic**  
Nurliyani Nurliyani, Indratiningsih, Widodo  
 Dept. of Animal Product Technology, Faculty of Animal Science, Universitas Gadjah Mada
- 0-19-2 Characteristic and Emulsion Stability of Low Fat Mayonnaise Using Rice Bran Oil and Kefir**  
Herly Evanuarini<sup>1</sup>, Nurliyani<sup>2</sup>, Indratiningsih<sup>2</sup>, Pudji Hastuti<sup>3</sup>  
<sup>1</sup> Animal Food Technology, Faculty of Animal Husbandry, Brawijaya University, Indonesia,  
<sup>2</sup> Animal Product Technology, Faculty of Animal Science, Gadjah Mada University, Indonesia,  
<sup>3</sup> Agricultural Technology, Gadjah Mada University, Indonesia
- 0-19-3 Amoxicillin, ampicillin and penicillin residues in informal milk supply chains of Pakistan**  
Peter Wynn<sup>1</sup>, Naveed Aslam<sup>1</sup>, Muhammad Tipu<sup>2</sup>, Mateen Abbas<sup>2</sup>, Muhammad Ishaq<sup>2</sup>, Sajid Latif<sup>1</sup>,  
David McGill<sup>3</sup>, Hassan Warriach<sup>2</sup>, Muhammad Husnain<sup>2</sup>  
<sup>1</sup> Graham Centre for Agricultural Innovation, Charles Sturt University, Australia,  
<sup>2</sup> Quality Operation Laboratory, University of Veterinary and Animal Sciences, Pakistan,  
<sup>3</sup> Faculty of Veterinary and Agricultural Sciences, University of Melbourne, Australia
- 0-19-4 Evaluation of Chemical Characteristic and Viability Microbial Of Kefir with Kolang–Kaling Fruit Addition as a Prebiotic**  
Afriza Yelnetty, Rahmawati Hadju, Arie Mirah, Nova Lontaan, Christina Junus  
 Sam Ratulangi University
- 0-19-5 Effect of various acids additions on the quality and digestibility of Ricotta cheese**  
Chung-Shiuan Wu, Mei-Jen Lin  
 National Pingtung University of Science and Technology
- 0-19-6 Effect of pretreatment of casein micelle on isolation of milk fat globule membrane from buttermilk by using microfiltration method**  
Tien-En Wei<sup>1</sup>, YU-YI Chen<sup>1</sup>, Yu-Hsueh Tzeng<sup>1</sup>, Tsai-Shin Wang<sup>1</sup>, Yu-Chun Lin<sup>2</sup>, Yen-Po Chen<sup>1</sup>  
 Department of Animal Science, National Chung Hsing University
- 0-19-7 KEFIR QUALITIES OF GOAT MILK WHICH ADDED Lactobacillus plantarum AND BANANA PEEL FLOURS**  
INDRATININGSIH INDRATININGSIH  
 Faculty of Animal Science Universitas Gadjah Mada
- 0-19-8 Milk fermentation with peptide-requiring Lactobacillus gasseri using advance pepsinolysis**  
Kensuke Arakawa<sup>1</sup>, Kanako Matsunaga<sup>1</sup>, Ai Moritoki<sup>1</sup>, Shuhei Takihiro<sup>1</sup>, Soma Ryuto<sup>1</sup>, Yasushi Kawai<sup>2</sup>,  
Tetsuya Masuda<sup>2</sup>, Taku Miyamoto<sup>1,3</sup>  
<sup>1</sup> Graduate School of Environmental and Life Science, Okayama University,  
<sup>2</sup> Graduate School of Bioresource Sciences, Nihon University, <sup>3</sup> Faculty of Food Culture, Kurashiki Sakuyo University
- 0-19-9 Isolation of nisin-producing Lactococcus lactis subsp. lactis strains from dadiah, Minangkabau fermented buffalo milk in West Sumatra, Indonesia**  
Ade Sukma<sup>1,2</sup>, Kensuke Arakawa<sup>1</sup>, Jafrinur<sup>2</sup>, Hidetoshi Morita<sup>1</sup>  
<sup>1</sup> Graduate School of Environmental and Life Science, Okayama University,  
<sup>2</sup> Faculty of Animal Husbandry, Andalas University
- 0-19-10 Characteristics of Lactic acid bacteria isolated from Chigee collected in Inner Mongolia**  
Yoshikazu Adachi, Maki Nakata  
 National Ibaraki University

## Oral Session 20: Feeds & Feeding (Non-Ruminants) (1)

Thursday, 25 August 8:30-10:30 Room N201

*Chairs:* Shubash Chandra Das Bangladesh Agricultural University  
Marie Najoan Faculty of animal husbandry University of Sam Ratulangi

### **0-20-1 Effect of Eggshell Levels in Layer Diet on Productive Performance, Egg Quality and Plasma Calcium Concentration**

Pornpan Saenphoom, Suphawadee Chimtong, Krittiya Lertchunhakiat, Manatsanan Nopparatmaitree  
Faculty of Animal Sciences and Agricultural Technology, Silpakorn University

### **0-20-2 Beneficial effect of AZOMITE® as a source of natural minerals on growth performance of broilers**

Shubash Chandra Das  
Bangladesh Agricultural University

### **0-20-3 INCLUSION EFFECT OF MANGOSTEEN PEEL MEAL AS FEED ADDITIVE ON PERFORMANCES, CARCASS AND INTERNAL ORGANS OF MOJOSARI DUCK**

Dini Hardini<sup>1,2</sup>, Irfan Djunaidi<sup>1</sup>, Edhy Soedjarwo<sup>1</sup>  
<sup>1</sup> Faculty of Animal Husbandry, Brawijaya University, Indonesia,  
<sup>2</sup> The Assessment Institute for Agricultural Technology, Indonesia

### **0-20-4 Use of Blue Swimming Crab Waste as Alternative Animal Feedstuff**

Sunate Surbkar<sup>1</sup>, Rawin Surbkar<sup>2</sup>, Chanida Bupata<sup>1</sup>, Sujinda Khunakan<sup>1</sup>, Supasan Sa-ngiamjit<sup>1</sup>  
<sup>1</sup> Faculty of Engineering and Agro-industry, Maejo University, Thailand,  
<sup>2</sup> Faculty of Science and Technology, Rajamangala University of Technology Tawan-ok, Thailand

### **0-20-5 EFFECT OF MULTI-CARBOHYDRASE ENZYME SUPPLEMENTATION AND ROUTE OF ADMINISTRATION ON BROILER GROWTH PERFORMANCE AND ENERGY VALUE OF CORN-SOYBEAN MEAL DIETS**

Rudyard Marlowe O. Cruz, Rommel C. Sulabo  
Animal Nutrition Division, Animal and Dairy Sciences Cluster, University of the Philippines Los Baños, Philippines

### **0-20-6 UTILIZATION OF "GOROHO" BANANA STEM (*Musa acuminata*, sp) MEAL AS AN ALTERNATIVE FEED ON BROILER PERFORMANCE**

Marie Najoan, Betty Bagau, Florencia Sompie, Fenny Wolayan, Meity Imbar  
Faculty of Animal Husbandry University of Sam Ratulangi

### **0-20-7 THE EFFECTS OF INITIAL FEEDING AND DRINKING ON SMALL INTESTINE AND GROWTH PERFORMANCE OF NATIVE CHICKEN**

Luluk Annayyir Aulia Kusumawardani, Meidina Inasa  
Universitas Gadjah Mada

### **0-20-8 Effects of Different Feed Processing Methods on Growth Performance in Broiler chickens**

Jinsoo Kim, Abdolreza Hosseindoust, Suhyup Lee, Yohan Choi, Minju Kim, Alip Kumar, Seung min Oh, HyunBin Ham, Ill Kyong Kwon, Byung Jo Chae  
Kangwon National University

### **0-20-9 THE EFFECTS OF UTILIZATION OF DIFFERENT PROCESSING TECHNIQUES OF SKIPJACK BONE MEAL IN THE RATION ON EGG PRODUCTION OF QUAIL**

Betty Bagau, Marie Najoan, Meity Imbar, Hengki Liwe, Florencia Sompie  
Faculty of Animal Husbandry University of Sam Ratulangi

## Oral Session 21: Animal Breeding & Genetics

Thursday, 25 August 8:30-10:30 Room N202

*Chairs:* Vo Anh Khoa Do Can Tho University  
Sri Rachma Aprilita Bugiwati HASANUDDIN UNIVERSITY

### 0-21-1 Effects of porcine C8a-b polymorphisms on hemolytic complement activity

Vo Anh Khoa Do<sup>1</sup>, Edudard Murani<sup>2</sup>, Siriluck Ponsuksili<sup>2</sup>, Ronald Brunner<sup>2</sup>, Thi Dieu Thuy Nguyen<sup>3</sup>, Klaus Wimmers<sup>2</sup>

<sup>1</sup> Can Tho University, <sup>2</sup>Institute for Genome Biology at the Leibniz Institute for Farm Animal Biology, <sup>3</sup>Vietnam Academy of Science and Technology

### 0-21-2 Genome Wide Association Study of Oleic Fatty Acid in Duroc Swine

Vanessa Viterbo<sup>1,2</sup>, Bryan Irvine Lopez<sup>1</sup>, Taehun Kim<sup>1</sup>, Kang Seok Seo<sup>1</sup>, Hyunsung Kang<sup>1</sup>, Choulwon Song<sup>1</sup>

<sup>1</sup> Suncheon National University, <sup>2</sup>Central Luzon State University

### 0-21-3 A genetic association study for the lung lesion scores of mycoplasma pneumonia in pigs

Toshihiro Okamura<sup>1,2</sup>, Hiroshi Kadowaki<sup>3</sup>, Chihiro Shibata<sup>3</sup>, Eisaku Suzuki<sup>3</sup>, Ayumi Mikawa<sup>4</sup>, Toshimi Matsumoto<sup>5</sup>, Hirohide Uenishi<sup>6</sup>, Osamu Sasaki<sup>1</sup>, Keiichi Suzuki<sup>2</sup>, Masahiro Satoh<sup>2</sup>

<sup>1</sup> Institute of Livestock and Grassland Science, NARO, <sup>2</sup> Graduate School of Agricultural Science, Tohoku University, <sup>3</sup> Miyagi Livestock Experimental Station, <sup>4</sup> JATAFF-Institute, Japan Association for Techno-Innovation of Agriculture, Forestry and Fisheries, <sup>5</sup> Institute of Crop Science, NARO, <sup>6</sup> Institute of Agrobiological Sciences, NARO

### 0-21-4 GENETIC DIVERSITY AND GENETIC STRUCTURE OF FORMOSAN PANGOLIN (MANIS PENTADACTYLA PENTADACTYLA) IN TAIWAN BASED ON MHC AND MICROSATELLITE MARKERS

Jin-Ting Liu<sup>1</sup>, Fang-Yu Lai<sup>1</sup>, En-Chung Lin<sup>1</sup>, Yu-Hsuan Wu<sup>1</sup>, Hsien-Shao Tsao<sup>2</sup>, Shih-Chien Chin<sup>2</sup>, Pei-Hwa Wang<sup>1</sup>

<sup>1</sup> Department of Animal Science and Technology, National Taiwan University, <sup>2</sup> Taipei Zoo

### 0-21-5 Estimation of Growth Curve Parameter in Japanese Quail

Arraya Jeanmas

Faculty of Science and Technology, Prince of Songkla University, Pattani campus, Thailand

### 0-21-6 CROWING CHARACTER OF GAGA' CHICKEN AS LONG CROWER OF NATIVE CHICKEN BREED OF INDONESIA

SRI RACHMA APRILITA BUGIWATI, MUHAMMAD IHSAN ANDI DAGONG, FACHRI ASHARI

HASANUDDIN UNIVERSITY - INDONESIA

### 0-21-7 THE GENETIC DIVERSITY OF Mx|Hpy81 GENES IN NATIVE CHICKENS USING PCR-RFLP TECHNIQUE

Muhammad Amrullah Pagala, Saili Takdir

Halu Oleo University

### 0-21-8 Fate determination of skeletal muscle-derived mesenchymal stem cells into myogenic and adipogenic lineage

Wenjuan Sun, Ting He, Chunfu Qin, Kai Qiu, Xin Zhang, Yanhong Luo, Defa Li, Jlngdong Yin

State Key Lab of Animal Nutrition, College of Animal Science and Biotechnology, China Agricultural University

### 0-21-9 Assessment of genetic diversity in Agu pig population by estimates of coancestry coefficient based on genome-wide approach

Arakawa Aisaku<sup>1</sup>, Shihei Touma<sup>2</sup>, Masaaki Taniguchi<sup>1</sup>, Tomoko Eguchi-Ogawa<sup>1</sup>, Hirohide Uenishi<sup>3</sup>, Satoshi Mikawa<sup>1</sup>

<sup>1</sup> Institute of Livestock and Grassland Science, NARO, <sup>2</sup> Okinawa Prefectural Livestock and Grassland Research Center, <sup>3</sup> Institute of Agrobiological Sciences, NARO

## 0-21-10 Genetic diversity and relationship for Vietnamese native pigs using genome wide SNP markers

Shinya Ishihara<sup>1</sup>, Aisaku Arakawa<sup>2</sup>, Masaaki Taniguchi<sup>2</sup>, Minh Luu Quang<sup>3</sup>, Lan Pham Doan<sup>3</sup>, Ba Nguyen Van<sup>3</sup>, Satoshi Mikawa<sup>2</sup>, Thu Nhu Van<sup>3</sup>, Kazuhiro Kikuchi<sup>1</sup>

<sup>1</sup>Institute of Agrobiological Sciences, NARO, Japan,

<sup>2</sup>Institute of Livestock and Grassland Science, NARO, Japan, <sup>3</sup>National Institute of Animal Science, Vietnam

## Oral Session 22: Poultry Science & Industry (1)

Thursday, 25 August 8:30-10:30 Room N203

*Chairs:* Mongkol Thepparat Rajabhat Songkhla University  
 Dono Nanung Danar Universitas Gadjah Mada  
 Kawahara-Miki Ryouka Tokyo University of Agriculture

## 0-22-1 DIETARY SUBSTITUTION OF SOYBEAN MEAL WITH SOY-MILK WASTE: EFFECTS ON GROWTH PERFORMANCE AND PHYSICAL MEAT QUALITY IN BROILER CHICKENS

Nanung Danar Dono, Supadmo Supadmo, Edwin Indarto, Soeparno Soeparno

Universitas Gadjah Mada, Faculty of Animal Science

## 0-22-2 Genetic features of red and green junglefowls and relationship with Indonesian native chickens Sumatera and Kedu Hitam

Ryouka Kawahara-Miki<sup>1</sup>, Maria Ulfah<sup>2</sup>, Achmad Farajallah<sup>3</sup>, Muladno Muladno<sup>2</sup>, Ben Dorshorst<sup>4</sup>, Alison Martin<sup>5</sup>, Tomohiro Kono<sup>6</sup>

<sup>1</sup>NODAI Genome Research Center, Tokyo University of Agriculture,

<sup>2</sup>Department of Animal Production and Technology, Faculty of Animal Science, Bogor Agricultural University (IPB),

<sup>3</sup>Department of Biology, Faculty of Mathematics and Natural Science, Bogor Agricultural University (IPB),

<sup>4</sup>Department of Animal and Poultry Sciences, Virginia Tech,

<sup>5</sup>The Livestock Conservancy,

<sup>6</sup>Department of Bioscience, Tokyo University of Agriculture

## 0-22-3 The Influence of Feed And Water Added Into Broiler Excreta on The Growth Of House Fly Larvae (Musca Domestica L)

Wihandoyo Wihandoyo, Ahmad Ferdian, Rahmad Saleh Hasibuan

Faculty of Animal Science GMU

## 0-22-4 The Effect of Lighting Regimens on Broiler Growth:1. On the Productive Performance

Sri Sudaryati, Muhammad Mauludin, Sri Harimurti, Bambang Ariyadi, Wihandoyo Wihandoyo, Heru Sasongko

Universitas Gadjah Mada

## 0-22-5 The Effect of Lighting Regimens on Broiler Growth:2. On Weekly T3 and T4 Concentration

Muhammad Mauludin, Sri Harimurti, Sri Sudaryati, Bambang Ariyadi, Wihandoyo Wihandoyo, Heru Sasongko

Universitas Gadjah Mada

## 0-22-6 EFFECT OF PHYTASE, CELLULASE AND RICE HULL SUPPLEMENTATION IN COMMERCIAL BROILER DIETS ON PERFORMANCE, INTESTINAL PH, AND CAECAL VFA

Sri Hartini, Purwaningsih Purwaningsih

Papua University Department of Animal Husbandry

## 0-22-7 IMPACT OF PRE-COLD ROOM STORAGE ON HATCHARY PERFORMANCES

Jagath Munasinghe<sup>1</sup>, Shan Karnanayaka<sup>1</sup>, Tilini Disanayaka<sup>1</sup>, Gayani Herath<sup>1</sup>, Priyantha Kumara<sup>2</sup>

<sup>1</sup>Sabaragamuwa University of Sri Lanka, Department of Livestock Production,

<sup>2</sup>New Anthoney's Farms (Pvt) Ltd.

**0-22-8 THE EFFECT OF SUPPLEMENTATION OF LIGNOCHLORITIC BACTERIA ISOLATES TO BROILER CHICKENS' PRODUCTIVITY, MEAT QUALITY, AND HEALTH**

Lili Zalizar

Faculty of Agriculture and Animal Husbandry, University of Muhammadiyah Malang

**0-22-9 BROILER FARMING IN TAIWAN: ON-FARM SURVEY IN HUALIEN COUNTY**

Chia-Jung Hsieh

Hualien Animal Propagation Station, Livestock Research Institute, Council of Agriculture, Executive Yuan, Taiwan

**0-22-10 The application of the mixture consisting of sesame meal and chicken blood by fermentation to broiler feed**

Yu-Hsuan Ting<sup>1</sup>, Yi-Cheng Lee<sup>1</sup>, Chian-Kai Chang<sup>2</sup>, Hen-Wei Wei<sup>1</sup>

<sup>1</sup>Department of animal science and technology, National Taiwan University, <sup>2</sup>Li Han Enterprise Corporation Limited

**Oral Session 23: Animal Physiology & Anatomy**

Thursday, 25 August 8:30-10:30 Room N204

*Chairs:* Motoi Kikusato Tohoku University

Aiko ISHIDA NARO

Kazuki Nakashima NARO

**0-23-1 Oral administration of the medium containing live D-aspartate producing bacteria enriched with D-aspartate declines rectal temperature in chicks**

Phong H Do<sup>1</sup>, Phuong V Tran<sup>1</sup>, Mohammad A Bahry<sup>1</sup>, Hui Yang<sup>1</sup>, Guofeng Han<sup>1</sup>, Asami Tsuchiya<sup>3</sup>, Yukio Asami<sup>3</sup>, Mitsuhiro Furuse<sup>1</sup>, Vishwajit S Chowdhury<sup>2</sup>

<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Graduate School of Bioresource and Bioenvironmental Science, Kyushu University, Japan,

<sup>2</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan,

<sup>3</sup>R&D Division, Meiji Co., Ltd., Japan

**0-23-2 Influence of brain amino acids in the regulation of food intake in neonatal chick**

Phuong V Tran<sup>1</sup>, Vishwajit S Chowdhury<sup>2</sup>, Mao Nagasawa<sup>1</sup>, Phong H Do<sup>1</sup>, Mohammad A Bahry<sup>1</sup>, Hui Yang<sup>1</sup>, Mitsuhiro Furuse<sup>1</sup>

<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Graduate School of Bioresource and Bioenvironmental Science, Kyushu University, Japan,

<sup>2</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan

**0-23-3 The unfolded protein response pathway IRE1-XBP1 is required for myoblast differentiation**

Yukako Tokutake<sup>1</sup>, Keita Yamada<sup>2</sup>, Satoko Hayashi<sup>2</sup>, Shinichi Yonekura<sup>1,2,3</sup>

<sup>1</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University,

<sup>2</sup>Graduate school of Agriculture, Shinshu University, <sup>3</sup>Institute for Biomedical Sciences, Shinshu University

**0-23-4 Regulation of the cathelicidins expression in the vagina of laying hens in response to stimulation with microbial-associated molecular patterns**

Ahmad Abdel-Mageed<sup>1</sup>, Naoki Isobe<sup>2,3</sup>, Yukinori Yoshimura<sup>2,3</sup>

<sup>1</sup>Faculty of Science Minia University Egypt, <sup>2</sup>Graduate School of Biosphere Science Hiroshima University Japan,

<sup>3</sup>Research Center for Animal Science Hiroshima University Japan

**0-23-5 A Comparison of Growth Performance, Carcass Quality of Male and Female Meat Type Ducks**

Suteera Kunjoo, Chaiyapoom Bunchasuk, Theerawit Poeikhampha, Choawit Rakangthong

Kasetsart University

**0-23-6 Analysis of growth curves of male and female Pekin ducks**

Choawit Rakangthong, Theerawit Poeikhampha, Suteera Kunjoo, Wiriya Loongyai, Kanokporn Pongpong, Phongthorn Kongmun, Chaiyapoom Bunchasuk

Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand

**0-23-7 Expression profile of mood-related genes in the prefrontal cortex of Rev-erb  $\alpha$  deficient mice**

Tsuyoshi Otsuka, Akira Kohsaka, Hue Le Thi, Tomomi Nakao, Masanobu Maeda  
Wakayama Medical University School of Medicine

**0-23-8 Action of insulin-like factor 3 (INSL3) as a germ cell survival factor in boars**

Tetsuya Kohsaka<sup>1,2</sup>, Itaru Minagawa<sup>1,2</sup>, Dai Sagata<sup>1</sup>, Ali Mohammed Pitia<sup>1,2</sup>, Kei Terada<sup>3</sup>, Masatoshi Shibata<sup>3</sup>, Yoshihisa Hasegawa<sup>4</sup>, Hiroshi Sasada<sup>4</sup>

<sup>1</sup>Laboratory of Animal Reproduction and Physiology, Faculty of Agriculture, Shizuoka University, Japan,

<sup>2</sup>Division of Animal Resource Production, The United Graduate School of Agricultural Science, Gifu University, Japan,

<sup>3</sup>Shizuoka Swine and Poultry Experimental Station, Japan,

<sup>4</sup>Laboratory of Animal Reproduction, School of Veterinary Medicine, Kitasato University, Japan

**0-23-9 Muscle fiber type visualization using four anti-myosin heavy chain antibodies**

Shoko Sawano<sup>1</sup>, Yusuke Komiya<sup>2</sup>, Riho Ichitsubo<sup>2</sup>, Mako Nakamura<sup>2</sup>, Ryuichi Tatsumi<sup>2</sup>, Yoshihide Ikeuchi<sup>2</sup>, Wataru Mizunoya<sup>2</sup>

<sup>1</sup>Fukuoka Women's Junior College, <sup>2</sup>Kyushu University

**0-23-10 Impact of oral L-citrulline administration on thermoregulation and heat-tolerance in chicks**

Vishwajit S Chowdhury<sup>1</sup>, Phuong V Tran<sup>2</sup>, Mohammad A Bahry<sup>2</sup>, Phong H Do<sup>2</sup>, Hui Yang<sup>2</sup>, Guofeng Han<sup>2</sup>, Mitsuhiro Furuse<sup>2</sup>

<sup>1</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan,

<sup>2</sup>Laboratory of Regulation in Metabolism and Behavior, Graduate School of Bioresource and Bioenvironmental Science, Kyushu University, Japan

**Oral Session 24: Feeds & Feeding (Ruminants) (2)**

Thursday, 25 August 8:30-10:30 Room N301

*Chairs:* Metha Wanapat

Khon Kaen University

Yutaka Uyeno

Shinshu University

Patthararangsarith Pattraphorn

King Mongkut's Institute of Technology Ladkrabang

Muhamad Nasir Rofiq

Agency for Assessment and Application of Technology (BPPT) Indonesia

**0-24-1 PRODUCTIVITY AND NUTRIENTS QUALITY OF TWO VARIETIES *Brachiaria sp* ON DIFFERENT LEVEL OF FERTILIZER IN YOGYAKARTA INDONESIA**

Nafiatul Umami, Bambang Suhartanto, Meita Puspa Dewi

Faculty of Animal Science Universitas Gadjah Mada

**0-24-2 EFFECTS OF FEEDING DAIRY COW WITH INOCULATED CORN SILAGE ON MILK QUALITY**

Li-Chen Kao<sup>1</sup>, Jin-Seng Lin<sup>1</sup>, Hung-Hsi Hu<sup>2</sup>, San-Land Young<sup>1</sup>, Shi-Yong Li<sup>1</sup>

<sup>1</sup>SynbioTech Inc., Taiwan, <sup>2</sup>Department of Food Science, National Penghu University, Taiwan

**0-24-3 Performance of tropical dairy cows fed on cassava top silage in rice straw based diet**

Metha Wanapat<sup>1</sup>, Kampanat Phesatcha<sup>1</sup>, Bounnaxay Viennasay<sup>1</sup>, Sungchhang Kang<sup>2</sup>

<sup>1</sup>Tropical Feed Resources Research and Development Center (TROFREC), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup>Agricultural Unit, Department of Education, National Institute of Education, Cambodia

**0-24-4 Fatty Acid Composition in *M. longissimus dorsi* muscle of Thai Swamp Buffalo Feeding by Soybean Oil Supplement within Concentration Rations**

Pattraphorn Patthararangsarith<sup>1</sup>, Suvit Boonprong<sup>2</sup>

<sup>1</sup>King Mongkut's Institute of Technology Ladkrabang, <sup>2</sup>Ministry of Agriculture and Cooperative

**0-24-5 Potential of Mixed Feed Palm Kernel Meal and Oil Palm Decanter Cake was Fermented by *Rhizopus oligosporus* for Bali Cattle**

ROFIQ MUHAMAD NASIR<sup>1</sup>, Wina Elizabeth<sup>2</sup>, Angga I Wayan<sup>1</sup>, Gopar Ruslan Abdul<sup>1</sup>

<sup>1</sup>Centre for the Agricultural Production Technology, BPPT, Indonesia,

<sup>2</sup>Indonesia Research of Animal Production, Agricultural Ministry

- 0-24-6 Evaluation of Seasonal Changes in Nutritional Properties of Kudzu Silage**  
 Hoang Lam Dang, Obitsu Taketo, Toshihisa Sugino, Lv Renlong  
 Graduate School of Biosphere Science, Hiroshima University
- 0-24-7 Supplementation of Sesbania grandiflora to pregnant and lactating cows increased birth weight, milk production and preweaning growth of Bali cattle**  
 Imran Imran<sup>1</sup>, S P S Budhi<sup>2</sup>, Nono Ngadiono<sup>2</sup>, D Dahlanuddin<sup>1</sup>  
<sup>1</sup> Faculty of Animal Science University of Mataram, Indonesia,  
<sup>2</sup> Faculty of Animal Science University of Gadjah Mada, Indonesia
- 0-24-8 Ensiling fruits byproduct for feed use aiming at long term preservation and methane mitigation in the rumen**  
 Yutaka Uyeno<sup>1</sup>, Makoto Mitsumori<sup>2</sup>, Pradeep Malik<sup>3</sup>, Atul Kolte<sup>3</sup>, Raghavendra Bhatta<sup>3</sup>  
<sup>1</sup> Shinshu University, <sup>2</sup> NARO Institute of Livestock and Grassland Science,  
<sup>3</sup> National Institute of Animal Nutrition and Physiology (India)
- 0-24-9 Supplementation of suckling Bali calves with maize grain or sesbania increases growth rates prior to weaning**  
 T S Panjaitan<sup>1</sup>, S Gunadi<sup>2</sup>, D Dahlanuddin<sup>2</sup>, D P Poppi<sup>3</sup>, S P Quigley<sup>3</sup>  
<sup>1</sup> Assessment Institute for Agricultural Technology, Jalan Raya Peninjauan Narmada, NTB, Indonesia,  
<sup>2</sup> Faculty of Animal Science, University of Mataram, Indonesia,  
<sup>3</sup> School of Agriculture and Food Sciences, The University of Queensland, Australia
- 0-24-10 Feeding Traits and Production Systems of Lulu Cattle in Manang and Mustang District of Nepal**  
 Manoj Kumar SHAH<sup>1</sup>, Keshab Prasad Dhungana<sup>1</sup>, Hiroki Anzai<sup>3</sup>, Yoshiaki Hayashi<sup>2</sup>, Hajime Kumagai<sup>3</sup>  
<sup>1</sup> Nepal Agricultural Research Council, Regional Agricultural Research Station, Kaski Nepal,  
<sup>2</sup> Faculty of Agriculture, Meijo University, Japan, <sup>3</sup> Graduate School of Agriculture, Kyoto University, Japan

## Oral Session 25: Animal Nutrition (Ruminants) (2)

Thursday, 25 August 8:30-10:30 Room N302

*Chairs:* Chalong Wachirapakorn Khon Kaen University  
 Virote Pattarajinda Khon Kaen University  
 Tanjung Despal Bogor Agricultural University

- 0-25-1 Effect of Saccharomyces cerevisiae Fermented Cassava Bioethanol Waste on Feed Intake, Digestibility, Rumen Fermentation and Microorganism Diversity in Dairy Calf**  
 Anusorn Cherdthong<sup>1</sup>, Chanadol Supapong<sup>1</sup>, Anuthida Saenkamsorn<sup>1</sup>, Metha Wanapat<sup>1</sup>,  
 Chalong Wachirapakorn<sup>1</sup>, Nirawan Anantasook<sup>2</sup>, Pongsatorn Gunun<sup>3</sup>  
<sup>1</sup> Khon Kaen University, <sup>2</sup> Udon Thani Rajabhat University,  
<sup>3</sup> Rajamangala University of Technology-Isan, Sakon Nakhon Campus
- 0-25-2 The effects of feeding methods during pre-weaning period on the fattening performance of male calves**  
 Ercan Mevliyaogullari, Serap Goncu, Murat Gorgulu  
 Animal Science, Agricultural Faculty, Cukurova University
- 0-25-3 The utilization of yeast fermented cassava ethanol waste (YFCEW) from bio-ethanol plant in dairy cattle ration**  
 Chalong Wachirapakorn, Chantira Wongnen, Naphongphot Suphrap, Warangkana Daenseekaew,  
 Boonserm Pornjantuek  
 Department of Animal Science, Faculty of Agriculture, Khon Kaen University

**0-25-4 Effects of exogenous fibrolytic enzyme (EFE) supplementation on rumen fermentation and fibrolytic bacteria population in ruminants fed rice straw-based diet**

Chantira Wongnen, Chalong Wachirapakorn, Naphongphot Suphrap, Warangkana Daenseekaew, Boonserm Pornjantuek

Department of Animal Science, Faculty of Agriculture, Khon Kaen University

**0-25-5 Effects of Dried Cassava Pulp from Bio-Ethanol Industry Supplementation on Rumen Fermentation, Rumen Cellulolytic and Xylanolytic Bacteria in Dairy Cows**

Naphongphot Suphrap, Chalong Wachirapakorn, Chantira Wongnen, Warangkana Daenseekaew, Boonserm Pornjantuek

Department of Animal Science, Faculty of Agriculture, Khon Kaen University

**0-25-6 Effect of Cassava Ethanol Byproducts Fermented with Yeast on Rumen Fermentation and Feed digestion**

Virote Pattarajinda<sup>1</sup>, Supakit Sunato<sup>1</sup>, Pornchai Lowilai<sup>1</sup>, Ngarmnit Nontaso<sup>2</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University,

<sup>2</sup> Department of Microbiology, Faculty of Science, Khon Kaen University

**0-25-7 Adopting local best practice in reformulating dairy cow silage-based ration to improve cow's performances**

Despal Despal, Aditya Darmawan, Istychoirah Mahdiyah, Tutik Sriana, Luki Abdullah, Idat Galih Permana

Dept. Animal Nutrition & Feed Technology, Faculty of Animal Science, Bogor Agricultural University

**0-25-8 Potential of Probiotics and Oligosaccharides in Inhibiting The Causative Agents of Diarrhea in Dairy Calves**

Listiari Hendraningsih

University of Muhammadiyah Malang

**0-25-9 Effect of Yeast Fermented and Physical forms of Corn Husk on Digestibility and Fermentation by Using In vitro Gas Techniques**

Suban Foiklang<sup>1</sup>, Metha Wanapat<sup>2</sup>, Yanin Opatpatanakit<sup>1</sup>, Anon Paserakung<sup>1</sup>

<sup>1</sup> Faculty of Animal Science and Technology, Maejo University, Thailand,

<sup>2</sup> Tropical Feed Resources Research and Development Center (TROFREC), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand

**0-25-10 Structural Features of Condensed Tannins Affect In Vitro Rumen C18:3n-3 Biohydrogenation in Dairy Cows**

Nguyen Thi Huyen<sup>1,4</sup>, Christos Frygas<sup>2</sup>, Irene Mueller-Harvey<sup>2</sup>, Saskia Van Laar-van Schuppen<sup>1</sup>, Martin. W. A. Verstegen<sup>1</sup>, Wouter. H Hendriks<sup>1,3</sup>, Wilbert. F Pellikaan<sup>1</sup>

<sup>1</sup> Animal Nutrition Group, Wageningen University, The Netherlands,

<sup>2</sup> Chemistry & Biochemistry Laboratory, Reading University, United Kingdom,

<sup>3</sup> Department of Farm Animal Health, Utrecht University, The Netherlands,

<sup>4</sup> Faculty of Animal Science, Vietnam National University of Agriculture, Vietnam

## Oral Session 26: Animal Nutrition (Non-Ruminants) (5)

Thursday, 25 August 8:30-10:30 Room N303

*Chairs:* Kinh Van La Institute of Animal Sciences for Southern Vietnam  
Sawitree Wongtangintharn Faculty of Agriculture Khon Kaen University

### 0-26-1 Dietary lecithin improved feed efficiency in female and immunocastrated male finisher pigs

Henny Akit<sup>1,2</sup>, Hyatt Frobose<sup>3</sup>, Fahri Fahri<sup>1</sup>, Darryl D'Souza<sup>4</sup>, Brian Leury<sup>1</sup>, Frank Dunshea<sup>1</sup>

<sup>1</sup> Faculty of Veterinary and Agricultural Sciences, University of Melbourne, Australia,

<sup>2</sup> Department of Animal Science, Universiti Putra Malaysia, Malaysia,

<sup>3</sup> Animal Sciences and Industry, Kansas State University, USA,

<sup>4</sup> Australian Pork Limited, Australia

### 0-26-2 Effect of brown rice particle size on energy and crude protein digestibility in growing-finishing pigs

Akemi Yamamoto, Kaede Ono, Masaki Takasu, Erika Machino

Gifu University

### 0-26-3 A novel probiotic thermophile reduce the fat accumulation of the pigs, dogs, and mice via the alteration of gut microbiota.

Hirokuni Miyamoto<sup>1</sup>, Wataru Suda<sup>2,4</sup>, Shinji Fukuda<sup>2,5</sup>, Hisashi Masuoka<sup>6</sup>, Kenichi Kawada<sup>6</sup>, Ryo Watanabe<sup>1</sup>, Shota Yoshikawa<sup>1</sup>, Yasuyuki Ishikawa<sup>7</sup>, Minami Shibata<sup>7</sup>, Keisuke Kogusa<sup>7</sup>, Shinji Wada<sup>7</sup>, Masahiko Hirose<sup>8</sup>, Yuya Suzuki<sup>8</sup>, Motoaki Udagawa<sup>9</sup>, Toshiyuki Ito<sup>1,9</sup>, Kenichi Mori<sup>1,3</sup>, Hisashi Miyamoto<sup>3</sup>, Hiroshi Ohno<sup>5</sup>, Masahira Hattori<sup>4,10</sup>, Hiroaki Kodama<sup>1</sup>

<sup>1</sup> Chiba University, <sup>2</sup> Keio University, <sup>3</sup> Sermas Ltd., <sup>4</sup> Tokyo University, <sup>5</sup> RIKEN IMS, <sup>6</sup> Smack Ltd., <sup>7</sup> Chubu shiryō Ltd.,

<sup>8</sup> Showa sangyo Ltd., <sup>9</sup> Keiyo plant engineering Ltd., <sup>10</sup> Waseda University

### 0-26-4 Effects of Grape Seed Proanthocyanidins on Intestinal Mucosal Immunity and Microbial community on Weaning Piglets

Meng Han

State Key Laboratory of Animal Nutrition, China Agricultural University

### 0-26-5 Different fatty acid compositions in regional adipose tissues in growing-finishing pigs

Sitan Chen, Bing Dong

China Agricultural University

### 0-26-6 EVALUATION OF FULLY OXIDIZED BETA-CAROTENE (OXBC) AS AN ALTERNATIVE TO ANTIBIOTICS FOR GROWTH PROMOTION AND DISEASE PREVENTION IN SWINE

Kinh Van La<sup>1</sup>, James G. Nickerson<sup>2</sup>, William W. Riley<sup>3</sup>, Phu Van Nguyen<sup>1</sup>

<sup>1</sup> Institute of Animal Sciences for Southern Vietnam, <sup>2</sup> Avivagen Inc., Canada, <sup>3</sup> Jinan University, China

### 0-26-7 Energy Harvesting Capacity differences of Gut microbiota in Landrace and Rongchang Sows throughout Gestation and Lactation Periods

Hongbin Liu, Chengli Hou, Shuai Wang, Qianhong Ye, Xiaoya Zhang, Xiangfang Zeng, Shiyang Qiao

Ministry of Agriculture Feed Industry Centre, China Agricultural University

### 0-26-8 Nutrient Utilization Characteristics of Pigs with Various Growth Performance and the Phenotype Transformation to Recipient Mice by Fecal Transplantation

Tiantian Li, Beibei He, Na Li, Meng Shi, Taolin Yuan, Qiao Yan, Yuhua Zhu, Junjun Wang

State Key Laboratory of Animal Nutrition, China Agricultural University

**0-26-9 Effect of Human Isolated LAB Species as Probiotic Supplement for Piglet on Gut Microbiota and Intestinal Morphology**

Han Seo Ko, Jang Hyeon Soo, Hee Na Kim, Yu Hyun Kang, Joo Hong Min, Sang Jip Ohh  
Kangwon National University

**0-26-10 Phytate-hydrolyzing Bacillus sp. Isolated from Pig Gastrointestinal Tract**

Reinhard Pinontoan, Steven Ryan Susanto Tan, Lucy Jap, Henchristy Febrinanda Te, Ariella Samantha, Agustina Ika Susanti, Tjie Jan Tan  
Universitas Pelita Harapan, Biology Department

**Oral Session 27: Dairy Science & Industry**

Thursday, 25 August 11:00-13:00 Room S207

*Chairs:* Sornthep Tumwasorn Kasetsart University  
Angel-Amed Duron-Benitez National Pingtung University of Science and Technology

**0-27-1 Dose-comparison study of Lactococcus lactis producing heme oxygenase-1 for treatment of dextran sulfate sodium-induced acute colitis in mice**

Suguru Shigemori<sup>1,2</sup>, Tasuku Ogita<sup>3</sup>, Takeshi Shimosato<sup>1,3</sup>  
<sup>1</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University,  
<sup>2</sup>Research Fellow of the Japan Society for the Promotion of Science (JSPS),  
<sup>3</sup>Institute for Biomedical Sciences, Shinshu University

**0-27-2 An immunostimulatory oligodeoxynucleotide from lactic acid bacteria promotes anaphylaxis to ovalbumin in mice**

Yoshinari Yamamoto<sup>1,2</sup>, Takuma Okajima<sup>3</sup>, Tasuku Ogita<sup>4</sup>, Takeshi Shimosato<sup>1,3,4</sup>  
<sup>1</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University,  
<sup>2</sup>Research Fellow of the Japan Society for the Promotion of Science (JSPS),  
<sup>3</sup>Graduate School of Agriculture, Shinshu University, <sup>4</sup>Institute for Biomedical Sciences, Shinshu University

**0-27-3 Measuring the Shape and Magnitude of Lactation Curves with Geometric Morphometric**

Angel-Amed Duron-Benitez<sup>1</sup>, Wen-Chi Huan<sup>2</sup>  
<sup>1</sup>National Pingtung University of Science and Technology, Department of Tropical Agriculture and International Cooperation,  
<sup>2</sup>National Pingtung University of Science and Technology, Department of Agribusiness Management

**0-27-4 Sustainability Tools for Small Dairy Farmers in Thailand**

Sornthep Tumwasorn, Monrudee Chomsuay, Kanokorn Nonsiri  
Kasetsart University, Department of Animal Science

**0-27-5 Immobilization of Kefir Microorganisms on Fruit Pieces for Fermented Milk Production**

Ker-Sin Ng<sup>1</sup>, Sheng-Yao Wang<sup>1,2</sup>, Ming-Ju Chen<sup>1</sup>  
<sup>1</sup>Department of Animal Science and Technology, National Taiwan University,  
<sup>2</sup>Experimental Farm, National Taiwan University

**0-27-6 Analysis of Lactic Acid Bacteria in Airag and Tarag, Traditional Fermented Milk Products in Mongolia**

Chien-Jang Huang<sup>1</sup>, Ming-Ju Chen<sup>1</sup>, Koichi Watanabe<sup>1</sup>, Shirchin Demberel<sup>2</sup>  
<sup>1</sup>Department of Animal science and Technology, National Taiwan University,  
<sup>2</sup>Mongolian Academy of Science, Mongolia

**0-27-7 Development of a Novel Dairy Product Using Komagataibacter nataicola and yeasts**

Ping-Chu Liao<sup>1</sup>, Sheng-Yao Wang<sup>2</sup>  
Department of Animal Science and Technology, National Taiwan University

- 0-27-8 Performance and profit of feeding expired milk powder for pre weaning kids of Etawah Crossed Bred in a farmer group**  
Bastian Titus Ari Prayogo, Ahmad Mubarak Hasan Asrori, Yuni Suranindyah  
 Universitas Gadjah Mada, Faculty of Animal Science
- 0-27-9 Farming scale impact on ration and dairy cow's performances under traditional farm management in major producing province of Indonesia**  
Idat Galih Permana, Rika Zahera, Toto Toharmat, Despal Despal  
 Department of Animal Nutrition and Feed Technology, Faculty of Animal Science, Bogor Agricultural University
- 0-27-10 The Antimicrobial Activity of Bovine Colostrum Holstein Cows (FH) Towards Gram Positive and Negative Bacteria**  
Khusnul Khotimah  
 Muhammadiyah University in Malang

## Oral Session 28: Feeds & Feeding (Non-Ruminants) (2) / Pig Science and Industry

Thursday, 25 August 11:00-13:00 Room N201

*Chairs:* Rommel C. Sulabo University of the Philippines Los Baños  
 Ruey-Chee Weng National Pingtung University of Science and Technology

- 0-28-1 Functional properties of bean husks on hindgut fermentation and microbiota in rats**  
Myint Htun, Hiroyuki Kishi, Yu Iwahashi, Satoshi Koike, Yasuo Kobayashi  
 Graduate School of Agriculture, Hokkaido University, Japan
- 0-28-2 Dietary Fat Preference And Dependence In Weaning Piglet And Their Performance**  
Ruey-Chee Weng  
 National Pingtung University of Science and Technology
- 0-28-4 Effects of Feeding Methods in Summer Season on Reproductive Performance of Lactating Sows**  
Yohan Choi<sup>1</sup>, Abdolreza Hosseindoust<sup>1</sup>, Suhyup Lee<sup>1</sup>, MinJu Kim<sup>1</sup>, YoungHwa Kim<sup>2</sup>, Seung Min Oh<sup>1</sup>,  
 HyungBin Ham<sup>1</sup>, Alip Kumar<sup>1</sup>, Byung Jo Chae<sup>1</sup>  
<sup>1</sup>Kangwon National University,  
<sup>2</sup>Department of Animal Resources Development, Swine Science Division, National Institute of Animal Science, R.D.A,  
 Korea
- 0-28-5 Heterologous Expression and Characterization of Two Alpha-galactosidases Originated from *Aspergillus oryzae***  
Yongzhi YANG, Xu YANG, Xiaojing GUO, Shuaijuan HAN, Bing DONG, Yunhe CAO  
 College of Animal Science and Technology, China Agricultural University (CAU), China
- 0-28-6 Efficacy of mycosorbents to ameliorate the adverse effects of naturally mycotoxin contaminated corn in Cherry Valley ducks**  
Pawadee Pakdee<sup>1</sup>, Kantaphat Rattanasinthuphong<sup>1</sup>, Bundit Tengjaroenkul<sup>2</sup>  
<sup>1</sup>Department of Animal science, Faculty of Agriculture, Khon Kaen University, Thailand,  
<sup>2</sup>Faculty of Veterinary Medicine, Khon Kaen University, Thailand
- 0-28-7 FEEDING VALUE OF DRIED FERMENTATION BIOMASS IN BROILERS**  
Rommel C. Sulabo, Noel B. Lumbo  
 Animal Nutrition Division, Animal and Dairy Sciences Cluster, University of the Philippines Los Baños, Philippines

**0-28-8 EFFECT OF SURGICAL AND IMMUNOLOGICAL CASTRATION ON COLLAGEN SOLUBILITY AND SHEAR FORCE VALUE IN PORK**

Panneepa Sivapirunthep, Chanporn Chaosap

King Mongkut's Institute of Technology, Faculty of Industrial Education

**0-28-9 A New Development System for Automated Measurement and Recording pig weight**

Cheng-Jung Yang<sup>1</sup>, Ming-Huang Chen<sup>2</sup>, Sheng-Chi Lin<sup>3</sup>, Yu-Ting Wu<sup>4</sup>, Yi-Chun Liao<sup>5</sup>, Shao-Yu Peng<sup>6</sup>

<sup>1</sup> Department of Mechanical Engineering, National Pingtung University of Science and Technology, Taiwan,

<sup>2</sup> Medical Device Innovation Center, National Cheng Kung University, Taiwan,

<sup>3</sup> Center for Teaching Excellence, National Pingtung University of Science and Technology, Taiwan,

<sup>4</sup> Department of Forestry, National Pingtung University of science and technology, Taiwan,

<sup>5</sup> Department of Veterinary Medicine, National Pingtung University of science and technology, Taiwan,

<sup>6</sup> Department of Animal Science, National Pingtung University of science and technology, Taiwan

**0-28-10 Purification of soybean Kunitz trypsin inhibitor by Two-Dimensional Liquid Chromatography with Ultraviolet detection**

Tianjiao Zhou, Pingli He

State Key Laboratory of Animal Nutrition, College of Animal Science and Technology, China Agricultural University

**Oral Session 29: Animal Genetics & Diversity / Animal Reproduction**

Thursday, 25 August 11:00-13:00 Room N202

*Chairs:* Kazuhiro Kikuchi

Institute of Agrobiological Sciences, NARO

Kunya Tuntivisoottikul

Fac. of Industrial Education, KMITL

**0-29-1 POLYMORPHISMS OF CALPASTATIN GENE (CAST) AND IT'S ASSOCIATION WITH GROWTH TRAITS IN INDONESIAN THIN TAIL SHEEP (TTS)**

Muhammad Ihsan Andi Dagong<sup>1</sup>, Cece Sumantri<sup>2</sup>, Ronny Rahman Noor<sup>2</sup>, Rachmat Herman<sup>2</sup>,

Mohamad Yamin<sup>2</sup>

<sup>1</sup> Hasanuddin University, <sup>2</sup> Bogor Agricultural University

**0-29-2 Genetic Diversity of Ongole Crossbred Cattle in Kebumen based on MC4R Gene**

Fathoni Akhmad<sup>1</sup>, Sumadi<sup>1</sup>, Tety Hartatik<sup>1</sup>, Mukhamad Khusnudin<sup>2</sup>, Dyah Maharani<sup>1</sup>,

Nono Ngadiyono<sup>1</sup>, Diah Tri Widayati<sup>1</sup>, Cuk Tri Noviandi<sup>1</sup>

<sup>1</sup> Faculty of Animal Science, Gadjah Mada University, <sup>2</sup> Association of Ongole crossbreed cattle breeder in Kebumen

**0-29-3 Genetic Diversity and Association between Reproductive Traits and Four Microsatellites in Thai Locally Adapted Cattle**

Kalaya Boonyanuwat<sup>1</sup>, Phirot Sirisom<sup>2</sup>, Amnoy Phuttharatanang<sup>3</sup>

<sup>1</sup> Biodiversity Research Sector, Bureau of Animal Husbandry and Genetic Improvement, Department of Livestock Development, Thailand,

<sup>2</sup> Tak Livestock Research and Breeding Center, Bureau of Animal Husbandry and Genetic Improvement, Department of Livestock Development, Thailand,

<sup>3</sup> Nongkwang Livestock Research and Breeding Center, Bureau of Animal Husbandry and Genetic Improvement, Department of Livestock Development

**0-29-4 ESTIMATION AND PREDICTION OF BREEDING VALUES FOR RIBEYE AREA IN BEEF CATTLE FROM LIVESTOCK COOPERATIVE FARMS**

Kunya Tuntivisoottikul<sup>1</sup>, Kanya Jirajaroenrat<sup>2</sup>

<sup>1</sup> Department of Agricultural Education, Faculty of Industrial Education, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>2</sup> Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand

**0-29-5 EFFECT OF HEAT STRESS ON PHYSIOLOGICAL INDICES AND HEAT SHOCK PROTEIN 70 EXPRESSION IN INDIGENOUS BREEDS OF GOAT IN NIGERIA**

Mabel O Akinyemi, Paul Oladele, Osamede H Osaiyuwu

Department of Animal Science, University of Ibadan, Nigeria

- 0-29-6 Whole Transcriptome Analysis of Thoroughbred and Jeju Native Horse by Exercise using RNA-sequencing**  
 Byung Wook Cho, Teak-Soon Shin, Seong-Keun Cho, Byeong-Woo Kim, Jakyuom Seo, Jae-Young Choi, Jeong-Woong Park  
 Pusan National University
- 0-29-7 APPLICATION OF MICROSATELLITE MARKERS FOR BALI CATTLE GENETIC DIVERSITY EVALUATION IN BALI AND NUSA PENIDA ISLANDS CONSERVATION CENTER**  
 Jakaria Jakaria, Alwiyah Alwiyah, Delisterika Mustika, Baihaqi Muhammad, Noor Ronny Rachman  
 Department of Animal Production and Technology, Faculty of Animal Science, Bogor Agricultural University
- 0-29-8 The variation of body linear of Indonesia Etawah goat at Lumajang districts, East Java and its correlation to milk production**  
 Aris Winaya, Indah Prihartini, Abdulloh  
 Faculty of Agriculture and Animal Husbandry, University of Muhammadiyah Malang
- 0-29-9 ENDOMETRITIC IDENTIFICATION ON THROUGH BREED CROSSBREED HORSE WITH VAGINAL ACIDITY METHOD**  
 Pradita Iustitia Sitaresmi, Kustono, Diah Tri Widayati  
 Universitas Gadjah Mada
- 0-29-10 EFFECT OF PRESYNCH-OVSYNCH/SUPEROVULATION USING A SPLIT-SINGLE INTRAMUSCULARLY OF FOLLICLE-STIMULATING HORMONE IN RUSA DEER**  
 Vibuntita Chankitisakul<sup>1,2</sup>, Ampika Thongphakdee<sup>3</sup>, Chavin Chaisongkram<sup>4</sup>, Kanda Ponsrila<sup>4</sup>, Aunchisa Phoju<sup>4</sup>, Yoswaris Semaming<sup>5</sup>, Wuttigrai Boonkum<sup>1,2</sup>, Mongkol Techakumphu<sup>6</sup>  
<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon kaen University, Thailand,  
<sup>2</sup> Thermo-tolerance Dairy Cattle Research Group, Khon Kaen University, Thailand,  
<sup>3</sup> Wildlife Reproductive Innovation Center, Bureau of Conservation and Research, Zoological Park Organization, Thailand,  
<sup>4</sup> Department of Research, Conservation and Animal Health, Khon Kaen Zoo, Thailand,  
<sup>5</sup> Veterinary Technology Program, Faculty of Technology, Udon Thani Rajabhat University, Thailand,  
<sup>6</sup> Department of Obstetrics Gynaecology and Reproduction, Faculty of Veterinary Science, Chulalongkorn University, Thailand

## Oral Session 30: Meat & By-products (1)

Thursday, 25 August 11:00-13:00 Room N203

*Chair:* Chih-Ming Chen National Pingtung University of Science and Technology

- 0-30-1 The Microbial Analyses of Fermented Sausage from Tetelan Beef using Probiotic Culture Starter**  
 Aulia Irhamni Fajri<sup>1</sup>, Irma Isnafia Arief<sup>2</sup>, Henny Nuraini<sup>2</sup>  
<sup>1</sup> National Pingtung University of Science and Technology, Taiwan, <sup>2</sup> Bogor Agricultural University, Indonesia
- 0-30-2 MICROBIOLOGY QUALITY OF BEEF DENDENG TREATED BY CURING WITH OR WITHOUT SODIUM NITRITE SOLUTION AT DIFFERENT STORAGE AND AFTER FRYING**  
 Suryati Tuti, Isnafia Arief Irma, Wulandari Zakiah, Murtini Devi, Febriantini Dwi, Nurul Astri Yuanita  
 Bogor Agricultural University
- 0-30-3 Improvement of intestinal health by probiotic fermented beef product**  
 IRMA ARIEF ISNAFIA, ADI WINARTO, MARGARETHA MULATSIH KANDI, AULIA IRHAMNI FAJRI  
 Bogor Agricultural University, Indonesia

**0-30-4 Difference of Gelatin Quality Goat Leather and Fur**

Amertaningtyas Dedes, Jaya Firman

Faculty of Animal Husbandry Brawijaya University

**0-30-5 Preliminary study of ethanol extract of *Phyllanthus acidus* L. (Skeels) leaves as natural antioxidant in raw and cooked ground pork**

Thi Kim Tuyen Nguyen, Pilasombut Komkhae, Laosinwattana Chamroon

King Mongkut's Institute Technology Ladkrabang

**0-30-6 The study of long time feed of low level radioactive contaminated hay to animal health and animal products**

Junyou LI<sup>1</sup>, Chunxiang PIAO<sup>2</sup>, Hirohiko IITSUKA<sup>1</sup>, Shigeru HASEGAWA<sup>1</sup>, Masanori IKEDA<sup>1</sup>, Tomotsugu TAKAHASHI<sup>1</sup>, Yoshinosuke FUKUMOTO<sup>4</sup>, Natsuko KOBAYASHI<sup>3</sup>, Atsushi HIROSE<sup>3</sup>, Keitaro TANOI<sup>3</sup>, Keiichiro MAEDA<sup>4</sup>

<sup>1</sup> Animal Resource Science Center, Graduate School of Agricultural and Life Sciences, The University of Tokyo,

<sup>2</sup> Department of Agricultural Resources and Environment, Faculty of Agricultural, Yanbian University,

<sup>3</sup> Graduate School of Agricultural and Life Sciences, The University of Tokyo,

<sup>4</sup> Department of Veterinary Medical Sciences The University of Tokyo

**0-30-7 Effect of Ractopamine Supplementation in Diets on Longissimus Muscle Characteristics of Finishing Pigs**

Krongkaew Kaewthaworn<sup>1</sup>, Ronachai Sitthigripong<sup>1</sup>, Chanporn Chaosap<sup>2</sup>, Kamon Chaweewan<sup>3</sup>

<sup>1</sup> Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>2</sup> Faculty of Industrial Education, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>3</sup> Department of Livestock Development, Thailand

**0-30-8 Effect of dipping in Longan seed extract phenolic solution on the shelf life and quality of pork under refrigerated storage**

Julakorn Panatuk<sup>1</sup>, Wantamas Jantasin<sup>1</sup>, Kridda Chukiatsiri<sup>1</sup>, Tanom Tathong<sup>3</sup>, Suthipong Uriyapongson<sup>3</sup>

<sup>1</sup> Faculty of Animal Science and Technology, Maejo University, Thailand,

<sup>2</sup> Program in Food Technology, Faculty of Agriculture and Technology, Nakhon Phanom University, Thailand,

<sup>3</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand

**0-30-9 Effects of various types and high additional levels of sugars on color and sensory attributes of Chinese- style pork jerky**

Chih-Ming Chen, Hsien-Tang Lin, Pei-Shan Wu, Ching-Yi Pan, Rui-Lin Chang

National Pingtung University of Science and Technology

**0-30-10 Myosin Heavy Chain Expression of Purebred and Crossbred Pig**

Wuttikorn Buajoom, Chanporn Chaosap, Panneepa Sivapirunthep

King Mongkut's Institute of Technology Ladkrabang Faculty of Industrial Education

**Oral Session 31: Hygiene / Animal Physiology & Anatomy**

Thursday, 25 August 11:00-13:00 Room N204

*Chairs:* Narayana H Mohan ICAR-National Research Centre on Pig  
Fitriyanto Agus Nanung Gadjah Mada University

**0-31-1 Quality of Liquid Organic Fertilizer from Rabbit's Urine with The Addition of Nitrifying Bacteria, Urea, and *Leucaena leucocephala***

Theresia Galuh Wandita, Setyo Rahmat Darmawan, Suharjono Triatmojo, Nanung Agus Fitriyanto

Faculty of Animal Science and Industry, Universitas Gadjah Mada

**0-31-2 Improving Methane Gas Production from Wastepaper by Adding Surfactant during Pretreatment with Rumen Fluid**

Shuhei Takizawa<sup>1</sup>, Yasunori Baba<sup>2</sup>, Chika Tada<sup>1</sup>, Yasuhiro Fukuda<sup>1</sup>, Yutaka Nakai<sup>1</sup>

<sup>1</sup>Laboratory of Sustainable Animal Environmental Science, Graduate School of Agricultural Science, Tohoku University, Japan,

<sup>2</sup>Research Institute for Bioresources and Biotechnology, Ishikawa Prefectural University, Japan

**0-31-3 ISOLATION OF INDIGENOUS DENITRIFYING BACTERIA FROM THE ODOROUS REGION OF AN LAYER FARM AND ITS POTENTIAL AS NITRATE REDUCING AGENT**

Agus Fitriyanto Nanung<sup>1</sup>, Amalia Ditasari<sup>1</sup>, Erwanto Yuny<sup>1</sup>, Pertiwiningrum Ambar<sup>1</sup>, Triatmojo Suharjono<sup>1</sup>, Bachruddin Zaenal<sup>1</sup>, Wihandoyo<sup>1</sup>, Tomoyuki Nakagawa<sup>2</sup>, Takashi Hayakawa<sup>2</sup>

<sup>1</sup>Faculty of Animal Science Gadjah Mada University Indonesia,

<sup>2</sup>Faculty of Applied Biological Sciences Gifu University Japan

**0-31-4 Volume reduction of cattle rumen fluid using a coagulation-flocculation process and its capability for lignocellulose degradation and methane production**

Kenichi Abe, Shuhei Takizawa, Yasuhiro Fukuda, Chika Tada, Yutaka Nakai

Laboratory of Sustainable Environmental Biology, Graduate School of Agricultural Science, Tohoku University, Japan

**0-31-6 Central administration of neuropeptide Y acts as an anti-stress factor in heat exposed chicks**

Mohammad A Bahry<sup>1</sup>, Vishwajit S Chowdhury<sup>2</sup>, Hui Yang<sup>1</sup>, Phuong V Tran<sup>1</sup>, Phong H Do<sup>1</sup>, Guofeng Han<sup>1</sup>, Mitsuhiro Furuse<sup>1</sup>

<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Graduate School of Bioresource and Bioenvironmental Science, Kyushu University, Japan,

<sup>2</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan

**0-31-7 A Study on Fat Deposition from 1-6 Months of Age in Northeast Thailand Indigenous Pigs**

Nitchanan Chukerd<sup>1</sup>, Pongchan Na-Lampang<sup>2</sup>, Putthaporn Pumrojana<sup>1</sup>, Nantiya Saetiew<sup>1</sup>, Watchara Ninphet<sup>1</sup>

<sup>1</sup>Division of Animal Science, Faculty of Science and Technology, Muban Chombueng Rajabhat University,

<sup>2</sup>School of Animal Production Technology, Institute of Agricultural Technology, Suranaree University of Technology

**0-31-8 Effect of oral administration of colostrum on immune function in the goat digestive tract**

Shoko Matsukawa, Toshihisa Sugino, Yukinori Yoshimura, Naoki Isobe

Hiroshima University

**0-31-9 Effect of steroid hormone on innate immune response induced by Staphylococcus aureus in mammary gland of goat**

Naoki Isobe, Kenta Kuwahara, Yukinori Yoshimura

Hiroshima University

**0-31-10 Effect of temporary cessation of milking on antimicrobial components in goat milk**

Jo Ueda, Yukinori Yoshimura, Naoki Isobe

Hiroshima University

## Oral Session 32: Feeds & Feeding (Ruminants) (3)

Thursday, 25 August 11:00-13:00 Room N301

**Chairs:** Manoj Kumar Gendley College of Veterinary Science and A.H., Chhattisgarh Kamdhenu University  
 Wan Zahari Mohamed Universiti Malaysia Kelantan (UMK)  
 Tri Astuti Muara Bungo University  
 Yuni Suranindyah Universitas Gadjah Mada

### **0-32-1 Influence of Chromium on Nutrient Utilization and Blood Biochemical Parameters in goat**

Manoj Kumar Gendley, S. P. Tiwari, U.K. Mishra  
 Chhattisgarh Kamdhenu University, India

### **0-32-2 Effect of fermented juice from fruit peels to use as an additive for improved quality of roughage**

Yupha Seesawhea<sup>1</sup>, Pornpan Saenphoom<sup>1</sup>, Smerjai Bureenok<sup>2</sup>, Anan Chaokaur<sup>1</sup>, Suphavadee Chimtong<sup>1</sup>, Attapol Tiantong<sup>1</sup>

<sup>1</sup> Faculty of Animal Sciences and Agricultural Technology, Silpakorn University,  
<sup>2</sup> Faculty of Sciences and Liberal Arts, Rajamangala University of Technology Isan

### **0-32-3 In Situ Degradation Characteristics of Indigofera zollingeriana at Different Cutting Intervals during Wet and Dry Season**

Edgar Orden<sup>1</sup>, Romero Loretta<sup>2</sup>, Del Rosario Neal<sup>1</sup>, Galamgam Jovani<sup>1</sup>, Gonzales Rhanny<sup>1</sup>  
<sup>1</sup> Central Luzon State University, <sup>2</sup> Benguet State University

### **0-32-4 NUTRIENT CONTENT OF COMPLEAT FEED BASE ON FERMENTED OF PALM OIL FROND FOR RUMINANT**

Astuti Tri<sup>1</sup>, Yelni Gusni<sup>1,6</sup>, Rofiq M. Nasir<sup>2</sup>, Santoso Urip Santoso<sup>3</sup>, Amir Yusrizal<sup>4</sup>

<sup>1</sup> Muara Bungo University, <sup>2</sup> Agency for The Assessment and Application of Technology (BPPT),  
<sup>3</sup> Bengkulu University, <sup>4</sup> STAI Yasni

### **0-32-7 The effect of supplementation ginger (Z. Officinale) powder on feed consumption, milk production and components of goat**

Yuni Suranindyah, Nurliyani Nurliyani, Budi Prasetyo Widyobroto  
 Universitas Gadjah Mada

### **0-32-8 USING LOCALLY TREE FOR FEEDING GOAT IN BINANGUN REGION, BLITAR DISTRICT EAST JAVA, INDONESIA**

Asmah Hidayati  
 Faculty of Agricultural Animal Science, University of Muhammadiyah Malang

### **0-32-9 EVALUATION OF COMPLETE FEEDS FOR RAISING DUAL- PURPOSE SHAMI GOATS UNDER MALAYSIA ENVIRONMENT**

Wan Zahari Mohamed<sup>1</sup>, Rozaini Abdul Rahman<sup>2</sup>, Mohd Mokhtar Arshad<sup>1</sup>, Mohd Sharif Salleh<sup>3</sup>, Abd Rahman Aziz<sup>1</sup>

<sup>1</sup> Universiti Malaysia Kelantan (UMK), <sup>2</sup> Maamor Dairy Sdn. Bhd., <sup>3</sup> Asreeda Corporation Sdn. Bhd.

### **0-32-10 Effect of soybean (Glicine max, Merrill) epidermis level in diet on protein content and in vitro gas production test parameters**

HARTUTIK HARTUTIK, Marjuki Marjuki  
 Faculty of Animal Husbandry, Brawijaya University

## Oral Session 33: Animal Nutrition (Ruminants) (3)

Thursday, 25 August 11:00-13:00 Room N302

*Chairs:* Pin Chanjula Prince of Songkla University  
Jacob Nulik East Nusa Tenggara Assessment Institute for Agriculture Technology

### 0-33-1 **In vitro digestibility of fermented rice straw supplemented with cassava tuber and leaves using ruminal fluid of Bali cattle**

Cuk Tri Noviandi, Zazin Mukmila, Ristianito Utomo, Subur Priyono Sasmito Budhi, Ali Agus, Andriyani Astuti  
Faculty of Animal Science, Universitas Gadjah Mada, Indonesia

### 0-33-2 **Rumen contents from slaughter house as alternative feed for replacing forage in ruminant diets**

Ristianito Utomo<sup>1</sup>, Lies Mira Yusiati<sup>1</sup>, Cuk Tri Noviandi<sup>1</sup>, Aryogi<sup>2</sup>, Isnandar<sup>3</sup>  
<sup>1</sup> Faculty of Animal Science, Universitas Gadjah Mada, Indonesia, <sup>2</sup> Indonesian Beef Cattle Research Station, Indonesia, <sup>3</sup> National Animal Husbandry Training Center, Indonesia

### 0-33-3 **Influences of Parts of Frond Ensilage and Pelleting Methods on Chemical Physical and Degradability of Pellet Ensiled Oil Palm Frond**

Ongarge Insung  
Rajamangala University of Technology Srivijaya

### 0-33-4 **Voluntary feed intake, rumen fermentation and microbial protein synthesis of beef cattle fed fermented cassava starch residue**

Ruangyote Pilajun<sup>1</sup>  
<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Ubon Ratchathani University, Thailand, <sup>2</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand

### 0-33-5 **The influence of sowing date and trellising on the flowering of some promising herbaceous legumes for eastern Indonesia**

Jacob Nulik<sup>1,2</sup>, Evert Hosang<sup>2</sup>, Debora Kana Hau<sup>2</sup>, Yanto Liunokas<sup>2</sup>, Yendri Aby<sup>2</sup>, Yakobus Uran<sup>2</sup>, Kendrick Cox<sup>2</sup>  
<sup>1</sup> Department of Agriculture and Fisheries (Queensland), <sup>2</sup> Departemen Pertanian Balai Pengkajian Teknologi Pertanian-NTT (BPTP-NTT)

### 0-33-6 **BIOCONVERSION OF COCOA POD HUSK THROUGH FERMENTATION WITH MOL RUMENT CONTENT AS RUMINANT FEED**

Nurhaita Nurhaita, Definiati Neli, Suliasih Suliasih  
Muhammadiyah University of Bengkulu

### 0-33-7 **Nutrients Quality of Fermented Complete Feed Based on By-Product of Sago (Metroxylon sp.) and Cassava (Manihot esculenta Cranz)**

Masitah Siti, Utomo Ristianito, Noviandi Cuk Tri  
Faculty of Animal Science Gadjah Mada University

### 0-33-8 **Improving Rice Straw Quality by Treated with Monosodium Glutamate by-Product (MSGB) for Ruminant Diets**

Phongthorn Kongmun, Sittisak Kongsin, Nuttareakha Polsiri, Somkiert Prasanpanich, Kanokporn Pongpong, Choawit Rakangthong, Chaiyapoom Bunchasak, Wiriyaa Loongyai, Theerawit Poeikhampa  
Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand

**0-33-9 Studies on cashew nut shell liquid withdrawal traits and its effect on methanogenesis and methanogen population in bovine rumen**

Abrar Arfan<sup>1</sup>, Makoto Kondo<sup>2</sup>, Tomomi Ban-Tokuda<sup>2</sup>, Hiroki Matsui<sup>2</sup>

<sup>1</sup>Department of Animal Science, Agriculture Faculty of Sriwijaya University, Indonesia,

<sup>2</sup>Graduate School of Bioresources, Mie University, Japan

**0-33-10 NUTRIENT DIGESTIBILITY AND BIOAVAILABILITY OF MINERALS IN BEEF CATTLE FED WITH DIFFERENT LEVELS OF CONCENTRATE AND OIL PALM STEM-LEAF**

Warly Lili<sup>1</sup>, Suyitman<sup>1</sup>, Evitayani<sup>1</sup>, Fariani Armina<sup>2</sup>

<sup>1</sup>Department of Animal Nutrition and Feed Technology, Fac. of Animal Science Andalas University, Indonesia,

<sup>2</sup>Department of Animal Nutrition, Fac. of Agriculture Sriwijaya University, Indonesia

**Oral Session 34: Animal Nutrition (Non-Ruminants) / Small Ruminants**

Thursday, 25 August 11:00-13:00 Room N303

*Chairs:* Hirokuni Miyamoto Chiba University

Takeyuki Ozawa Nippon Veterinary and Life Science University

**0-34-1 Establishment of Indicators for Intestinal Health Evaluation in Red Pandas**

Fang-Yu Kuo<sup>1</sup>, Yi-Ming Wang<sup>2</sup>, I-Lin Tsai<sup>2</sup>, Chia-Neng Chung<sup>2</sup>, Wan-Ying Chen<sup>2</sup>, Han-Tsung Wang<sup>3</sup>, Mei-Fong Lin<sup>1</sup>

<sup>1</sup>National Taiwan University, <sup>2</sup>Taipei Zoo, <sup>3</sup>Chinese Culture University

**0-34-2 Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs**

Peili Li, Fei Wu, Yifan Chen, Panpan Guo, Zhongchao Li, Ling Liu, Changhua Lai

State Key Laboratory of Animal Nutrition, Ministry of Agriculture Feed Industry Centre, China Agricultural University, P.R. China

**0-34-3 Effects of particle size, adaptation period and evaluation methods on estimates of available energy content and nutrient digestibility of wheat**

Yuanfang Fan, Panpan Guo, Yuyuan Yang, Tian Xia, Ling Liu, Yongxi Ma

State Key Laboratory of Animal Nutrition, China Agricultural University

**0-34-5 Efficacy of Probiotics (BACTOSAC-P) in Nursery-Fattening Pigs Diets**

Sawitree Wongtangintharn<sup>1</sup>, Winai Jaikan<sup>1</sup>, Jowaman Khajarern<sup>1</sup>, Nattaya Banglarp<sup>2</sup>, Pairat Thitisak<sup>2</sup>

<sup>1</sup>Khon Kaen University, <sup>2</sup>K.M.P. Biotech Co, Ltd., Thailand

**0-34-6 Investment in Research and Development Programs on Goat in Central Luzon, Philippines**

Maria Excelsis Orden, Fe Porciuncula, Edgar Orden

Central Luzon State University

**0-34-7 Backyard Raisers' Attitudes Toward Artificial insemination in Goat in the Philippines**

Jackielou Gallarde<sup>1</sup>, Maria Excelsis Orden<sup>1</sup>, Aubrey Balbin<sup>2</sup>, Ana Marie Alo<sup>3</sup>, Jamilla Fatima Saturno<sup>1</sup>, Frederick Godoy<sup>1</sup>

<sup>1</sup>Central Luzon State University, <sup>2</sup>Isabela State University,

<sup>3</sup>Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development

**0-34-8 BACKYARD GOAT FARM PERFORMANCE IN THE PHILIPPINES (2008-2010 AND 2013-2015)**

PATRICIA BARCELO, ANNA MARIE ALO, EDWIN VILLAR, EMILIO CRUZ, ANITA ASUNCION, JUVIIDEL JAYE CASTILLO, NEAL DEL ROSARIO, ROLANDO HIPE, JULNAR PEPITO, NATHANIEL NAANEP, REYNALDO EJERCITO, MARIA EXELCIS ORDEN

DON MARIANO MARCOS MEMORIAL STATE UNIVERSITY

**0-34-9 Milk Composition of Upgraded Philippine Native Goats**

Neal Del Rosario, Edgar Orden, Emilio Cruz

Small Ruminant Center, Central Luzon State University

**0-34-10 Antioxidant properties and honey protein of indigenous honey bees of Indonesia**

Firman Jaya, Lilik Eka Radiati

Dept. Animal Food Technology, Faculty of Animal Husbandry, Brawijaya University, Indonesia

**Oral Session 35: Animal Welfare & Health Management**

Thursday, 25 August 14:00-16:00 Room S207

*Chairs:* Virginia Venturina Central Luzon State University

Peter Windsor The University of Sydney

**0-35-1 Activation of RAW264.7 macrophages by the antimicrobial peptide sublancin: involvement of MAPK and NF- $\kappa$ B signaling pathways**

Shuai Wang, Qianhong Ye, Qing Yang, Xiangfang Zeng, Shiyao Qiao

State Key Laboratory of Animal Nutrition, Ministry of Agriculture Feed Industry Centre, China Agricultural University

**0-35-2 Monitoring system of body temperature in calves by using infrared thermography**Tohru Suzuki<sup>1</sup>, Yuichi Yoshinaga<sup>2</sup>, Masafumi Miyata<sup>2</sup>, Syoichi Kimura<sup>2</sup>, Ken Katsuda<sup>1</sup><sup>1</sup>National Institute of Animal Health, NARO, <sup>2</sup>Nippon Avionics Co., Ltd.**0-35-3 Internal parasite control in large ruminants by use of anthelmintic medicated urea molasses blocks**Peter Windsor<sup>1</sup>, Teresa Nemanic<sup>1</sup>, Nicole Selwood<sup>1</sup>, Nichola Calvani<sup>1</sup>, Syseng Nampanya<sup>2</sup>, Sothoeun Suon<sup>3</sup>, Russell Bush<sup>1</sup>

Faculty of Veterinary Science, University of Sydney

**0-35-4 Physiological parameters of young cattle transported from Hawai'i to US west coast during summer.**

C.N. Lee, T. Sy, A. Stokes, T Richards

Dept. of HNFAS, University of Hawaii-Manoa, USA

**0-35-5 FIELD TRIAL ON THE EFFICACY AND TOXICITY OF SELECTED FASCIOCIDES IN BUFFALOES (Bubalus bubalis).**NORAINE MEDINA<sup>1</sup>, Jose Vien Blas<sup>1</sup>, Virginia Venturina<sup>1</sup>, Claro Mingala<sup>2</sup><sup>1</sup>Central Luzon State University, College of Veterinary Science and Medicine, <sup>2</sup>Philippine Carabao Center**0-35-6 Preculture freezing and incubation on bacteriological isolation from subclinical mastitis milk samples in dairy cows**Tipwadee Prapaiwong<sup>1,2</sup>, Chaiwat Jarassaeng<sup>2</sup>, Chalong Wachirapakorn<sup>1</sup>, Arunee Ritthiphphanan<sup>2</sup><sup>1</sup>Departure of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,<sup>2</sup>Department of Surgery and Theriogenology, Faculty of Veterinary Medicine, Khon Kaen University, Thailand**0-35-7 Do ruminants experience nausea? : The effects of administration of "cisplatin", an emetic agents, on goats**

Masato Aoyama, Minami Shioya, Satoshi Yoshida, Yume Tsukamoto, Shoei Sugita

Utsunomiya University Faculty of Agriculture

**0-35-8 FIELD VALIDATION OF FAMACHA SYSTEM IN THE ESTIMATION OF DEGREE OF ANAEMIA IN GOATS WITH HAEMONCHOSIS**

Virginia Venturina, Romnick Mariano, Elfren Celestino, Virgilio Viernes

Central Luzon State University

**0-35-9 Stable Management and Colic Prevalence with Different Condition in Indonesian Horse Farming**

Yulianto Muhammad Danang Eko, Baliarti Endang, Adi Amien Fahrianto

Department of Animal Production Faculty of Animal Science Universitas Gadjah Mada

**0-35-10 The Learning Achievement on the OIE Standards in Animal Welfare at Slaughter and Transportation Training Program of Farmers**

Cherdpong Kheerajit

Kasetsart University

**Oral Session 36: Poultry Science & Industry (2)**

Thursday, 25 August 14:00-16:00 Room N201

*Chairs:* Fuminori Kawabata Kyushu University  
Sarwar Jahan Syed University of Rajshahi  
Bapon Dey Kyushu University

**0-36-1 The Effect of Lighting Regimens on Broiler Growth:3. Status of Corticosteroid Hormone and Feeding Behaviour**

Sri-Harimurti Sri-Harimurti, Diah Reni-Asih, Wihandoyo Wihandoyo, Heru Sasongko, Sri Sudaryati, Bambang Ariyadi, Muhammad Mauludin

Universitas Gadjah Mada

**0-36-2 Effects of Genotypes, Rearing System and Sex on Meat Yield Characteristics of Chicken at 48 Weeks of Age**

Md. Shariful Islam<sup>1,2</sup>, Sarwar Jahan Syed<sup>1</sup>, Md. Saiful Islam<sup>3</sup>, Md. Akhtarul Islam<sup>1</sup>

<sup>1</sup>Department of Animal Husbandry and Veterinary Science, University of Rajshahi, Bangladesh,

<sup>2</sup>Research Institute for Applied Mechanics, Kyushu University, Japan,

<sup>3</sup>Department of Zoology, University of Rajshahi, Bangladesh

**0-36-3 Analysis of growth curves in Betong chicken**

Mongkol Thepparat<sup>1</sup>, Sunee Trimanee<sup>2</sup>, Pitchayanipa Klomtong<sup>3</sup>, Santi Mhadmhan<sup>1</sup>

<sup>1</sup> Songkhla Rajabhat University, <sup>2</sup>Department of Livestock Development, <sup>3</sup>Prince of Songkla University

**0-36-4 Phenotypic and functional differences among  $\gamma$   $\delta$  T cell subsets in chicken**

Min Jeong Gu<sup>1</sup>, In Kyu Lee<sup>1</sup>, Kwang Hyun Ko<sup>1</sup>, Girak Kim<sup>1</sup>, Tae Sub Park<sup>2</sup>, Byung-Chul Park<sup>2</sup>, Cheol-Heui Yun<sup>1,2</sup>

<sup>1</sup>Department of Agricultural Biotechnology and Research Institute for Agriculture and Life Sciences, Seoul National University, Korea,

<sup>2</sup>Institute of Green Bio Science Technology, Seoul National University, Korea

**0-36-5 The Productivity Performance of Male and Female Kumbang Janti Duck Reared Intensively**

Tertia Delia Nova, Rijal Zein

Andalas University Animal Science

**0-36-6 Expression patterns of taste sensors in oral and gastrointestinal tissues of chickens**

Fuminori Kawabata, Yuko Kawabata, Yuta Yoshida, Momoko Higashida, Hikaru Ohmori, Shotaro Nishimura, Shoji Tabata

Laboratory of Functional Anatomy, Faculty of Agriculture, Kyushu University

**0-36-7 6-Methoxyflavone as the antagonist for functional bitter taste receptors in chickens**

Bapon Dey, Fuminori Kawabata, Yuko Kawabata, Shotaro Nishimura, Shoji Tabata

Laboratory of Functional Anatomy, Faculty of Agriculture, Kyushu University, Japan

**0-36-8 Effects of dried spineless cactus feeding on growth, egg production and plasma constituent in Nagoya Cochin chicken**

Yoshiaki Hayashi, Yagi Wakana, Ichimura Satoshi

Faculty of Agriculture, Meijo University

**0-36-9 Improving Egg Quality of Laying Hens by Addition of Morinda citrifolia Leaves and Fruits**

Tengku Eduard Azwar Sinar<sup>1</sup>, Tuty Maria Wardiny<sup>1</sup>, Anuraga Jayanegara<sup>2</sup>

<sup>1</sup>Departement of Agribusiness, Open University of Indonesia,

<sup>2</sup>Departement of Nutrition and Feed Technology, Bogor Agricultural University, Indonesia

**0-36-10 The Use of Morinda citrifolia Leaves and Fruits for Lowering Cholesterol Contents of Laying Eggs**

Tuty Maria Wardiny<sup>1</sup>, Wiranda Gentini Piliang<sup>2</sup>, Latifah K. Darusman<sup>3</sup>, Anuraga Jayanegara<sup>2</sup>

<sup>1</sup>Departement of Agribusiness, Open University of Indonesia,

<sup>2</sup>Departement of Nutrition and Feed Technology, Bogor Agricultural University, Indonesia,

<sup>3</sup>Departement of Chemistry, Bogor Agricultural University, Indonesia

**Oral Session 37: Animal Reproduction (3)**

Thursday, 25 August 14:00-16:00 Room N202

*Chairs:* Naoko Kimura Laboratory of Animal Reproduction, Graduate School of Agricultural Science

Thepparat Thunchira Prince of Songkla University

**0-37-1 IDENTIFICATION OF REPRODUCTIVE PERFORMANCE OF ETTAWA CROSSED BREED GOATS ON DIFFERENT BODY CONDITION SCORE USING VAGINAL SMEAR**

Diah tri Widayati, Dewi Wahyu Puspitasari, Sigit Bintara, Kustono, Ismaya, Adiarto, Yustin Yuni Suranindyah

Faculty of Animal Science, Gadjah Mada University, Indonesia

**0-37-2 Dietary Yeast (*Saccharomyces cerevisiae*) Probiotic for Growth Performance, Body Weight and Semen Quality Enhancements in Goats**

Jatuporn Kajaysri, Umaporn Rungroekrit, Chaiwat Chumchoung

Clinic for Obstetrics Gynecology Andrology and Artificial Insemination of Domestic Animals, Faculty of Veterinary Medicine, Mahanakorn University of Technology, Thailand

**0-37-3 EFFECT OF LONG DISTANCE TRANSPORT ON THE VIABILITY OF FRESH AND FROZEN-THAWED GOAT EMBRYOS STORED IN A PORTABLE INCUBATOR**

Flocerfida Aquino, Ester Flores, Eufrocina Atabay

Philippine Carabao Center

**0-37-4 THE QUALITY AND Ca<sup>+2</sup> INTENSITY CHARACTERS OF LOCAL INDONESIAN GOAT SPERM AFTER FREEZING BY NONCONVENTIONAL METHODS OF CRYOPRESERVATION**

Gatot Ciptadi<sup>1,2,3</sup>, Agus Budiarto<sup>1</sup>, Sri Rahayu<sup>2</sup>, Sri Wahjuningsih<sup>1</sup>, Muhammad Nasich<sup>1</sup>,

Muhamad Nur Ihsan<sup>1</sup>, Fatchiyah Fatchiyah<sup>2</sup>, G. Ciptadi Mudawamah<sup>3</sup>

<sup>1</sup>Faculty of Animal Husbandry, Brawijaya University, <sup>2</sup>Faulty of Basic Sciences, Dept Of Biology, Brawijaya University,

<sup>3</sup>Faculty of Animal Husbandry, Islamic University of Malang

**0-37-5 EFFECT OF DIFFERENT CRYOPROTECTANTS ON THE VIABILITY OF CRYOPRESERVED BOER GOAT SPERM CELLS IN THE PHILIPPINES**

Aubrey Joy Balbin

Isabela State University, Philippines

**0-37-6 Major proteins in caprine seminal plasma**

Thunchira Thepparat<sup>1</sup>, Jitthasak Maungkhiow<sup>2</sup>, Chanyut Kaphol<sup>2</sup>, Jakkapop Chansaad<sup>2</sup>,

Narong Leingcharoen<sup>2</sup>, Sittirak Roytrakul<sup>3</sup>

<sup>1</sup>Prince of Songkla University, Thailand, <sup>2</sup>Department of Livestock Development, Thailand,

<sup>3</sup>National Center for Genetic Engineering and Biotechnology, Thailand

**0-37-7 INFLUENCES OF CUMULUS CELLS DURING IN VITRO FERTILIZATION OF GOAT OOCYTE**

Wahjuningsih Sri, Nur Ihsan Muhammad, Sasmito Djati Muhammad, Isnaini Nurul

University of Brawijaya

**0-37-8 C3b component contributes to maintenance of pregnancy by inducing immune tolerance in mouse**

Sayuri Fukushima<sup>1</sup>, Keigo Nakamura<sup>2</sup>, Kazuhiko Imakawa<sup>2</sup>, Yoshihito Suda<sup>1</sup>

<sup>1</sup>Miyagi University School of Food, Agricultural and Environmental Sciences,

<sup>2</sup>The University of Tokyo Graduate School of Agricultural and Life Sciences

**0-37-9 Akr1a deficiency in mice decreases ascorbate synthesis but improves developmental potential of oocytes matured in vitro**

Naoko Kimura<sup>1,6</sup>, Yuki Hoshino<sup>1</sup>, Ren Watanabe<sup>1,6</sup>, Yoka Okabe<sup>1</sup>, Motoko Takahashi<sup>2</sup>, Satoshi Miyata<sup>3</sup>, Aya Umeno<sup>4</sup>, Yasukazu Yoshida<sup>4</sup>, Junichi Fujii<sup>5</sup>

<sup>1</sup>Laboratory of Animal Reproduction, Graduate School of Agricultural Science, Yamagata University,

<sup>2</sup>Department of Biochemistry, Sapporo Medical University School of Medicine,

<sup>3</sup>Department of Internal Medicine, Osaka Hospital, Japan Community Healthcare Organization,

<sup>4</sup>Health Research Institute, National Institute of Advanced Industrial Science and Technology (AIST),

<sup>5</sup>Department of Biochemistry and Molecular Biology, Graduate School of Medical Science, Yamagata University,

<sup>6</sup>Laboratory of Animal Reproduction, United Graduate School of Agricultural Sciences, Iwate University

**0-37-10 The corpus luteum is a source and target of insulin-like factor 3 (INSL3) in pregnant goats**

Ali M Pitia<sup>1,2</sup>, Itaru Minagawa<sup>1,2</sup>, Hiroshi Sasada<sup>3</sup>, Kazuyoshi Hashizume<sup>4</sup>, Tetsuya Kohsaka<sup>1,2</sup>

<sup>1</sup>Laboratory of Animal Reproduction and Physiology, Faculty of Agriculture, Shizuoka University, Japan,

<sup>2</sup>Division of Animal Resource Production, The United Graduate School of Agricultural Science, Gifu University, Japan,

<sup>3</sup>Laboratory of Animal Reproduction, School of Veterinary Science, Kitasato University, Japan,

<sup>4</sup>Laboratory of Veterinary Physiology, Faculty of Agriculture, Iwate University, Japan

**Oral Session 38: Meat & By-products (2) / Beef Cattle & Industry**

Thursday, 25 August 14:00-16:00 Room N203

*Chairs:* Russell David Bush The University of Sydney

Junyong Li The University of Tokyo

**0-38-1 Innovation Technology of Functional Chicken Sausage Formulated Using Microencapsulated Mixture of Selaroides spp) and Clarias sp Fish Oil**

Minarny Gobel

Tadulako University Central Sulawesi Indonesia

**0-38-2 The Physical and Chemical Properties of Gelatin Extracted From Chicken Leg Skin**

Meity Sompie, Wiesje Ponto, Jerry Kalele, Friets Ratulangi

Faculty of Animal Science Sam Ratulangi University

**0-38-3 EFFECT OF 2% SODIUM LACTATE ON MEAT QUALITY AND MICROBIOLOGICAL PROPERTIES OF BROILER BREAST MEAT**

Gnanarathna S H<sup>1</sup>, Herath H M G P<sup>1</sup>, Damith Udayanga<sup>2</sup>

<sup>1</sup>Sabaragamuwa University of Sri Lanka, Belihuloya, Sri Lanka, <sup>2</sup>Nelna Farm Pvt Ltd, Sri Lanka

**0-38-4 The Physicochemical Properties of Refined Duck Fat in Taiwan**

Hsin-Jung Lee<sup>1</sup>, You-Ting Chiu<sup>2</sup>, Meng-Ru Lee<sup>1</sup>

<sup>1</sup>Animal Products Processing Division, Livestocks research Institute, Taiwan,

<sup>2</sup>Shin-Sei Frozen Foods Co., LTD, Taiwan

- 0-38-5 THE EFFECT OF TAPIOKA FLOUR ADDITION ON THE QUALITY OF SAUSAGE MIXTURE OF CHICKEN AND TUNA FISH**  
 Agnes Triasih Agustini<sup>1</sup>, Meity Sompie<sup>2</sup>, Nurmelita Taher<sup>1</sup>, Erwin H B Sondakh<sup>2</sup>, Christina Yunus<sup>2</sup>  
<sup>1</sup> Faculty of Fisheries and Marine Sciences, Sam Ratulangi University,  
<sup>2</sup> Faculty of Animal Husbandry, Sam Ratulangi University
- 0-38-6 The Effect of Super Red Dragon Fruit (*Hylocereus costaricensis*) Peels on Physico Chemical, Antioxidant y and Microstructure of Chicken Sausage\***  
 Lilik Eka Radiati<sup>1</sup>, Firman Jaya<sup>1</sup>, Dita Eka Oktavianingtyas<sup>2</sup>, Fayca<sup>2</sup>  
 Brawijaya University
- 0-38-7 Fukuoka Livestock Hygiene Service Center supports hygiene of Hakata Wagyu**  
 Riki Hiromatsu<sup>1</sup>, Kyohei Hamada<sup>1</sup>, Hiroki Ito<sup>1</sup>, Tatsuro Hifumi<sup>1</sup>, Torata Ogawa<sup>1</sup>, Hiroaki Ryuo<sup>2</sup>, Yoshihiro Isozaki<sup>1</sup>, Kazuki Ishibashi<sup>1</sup>, Kazuhiko Imamura<sup>2</sup>  
<sup>1</sup> Fukuoka Livestock Hygiene Service Center, <sup>2</sup> Livestock Industry Division of Fukuoka Prefecture
- 0-38-8 THE EFFECT OF SEASON ON THE BOTANICAL COMPOSITION AND QUALITY OF FEEDSTUFF USED IN BALI CATTLE FATTENING AT SMALLHOLDER FARMS**  
 Paulus Klau Tahuk<sup>1</sup>, Subur Priyono Sasmito Budhi<sup>2</sup>, Panjono Panjono<sup>2</sup>, Endang Baliarti<sup>2</sup>  
<sup>1</sup> Timor University, <sup>2</sup> Gadjah Mada University
- 0-38-9 Participation of local Sumbawane and Balinese migrant women in cattle production system in Sumbawa eastern Indonesia**  
 S R Thei<sup>1</sup>, Y A Akhyar<sup>2</sup>, H Hermansyah<sup>2</sup>, L Xie<sup>3</sup>, M Cosijn<sup>3</sup>  
<sup>1</sup> Faculty of Agriculture University of Mataram, Indonesia,  
<sup>2</sup> Faculty of Animal Science University of Mataram, Indonesia, <sup>3</sup> CSIRO Australia, Australia
- 0-38-10 Changes in bali cattle production systems in sumbawa, eastern indonesia and the implications on feed supply systems**  
 H Hermansyah<sup>1</sup>, Y A Sutaryono<sup>1</sup>, D H Sofyan<sup>1</sup>, S H Dilaga<sup>1</sup>, L Xie<sup>2</sup>, M Cosijn<sup>2</sup>  
<sup>1</sup> Faculty of Animal Science University of Mataram, Indonesia, <sup>2</sup> CSIRO Australia, Australia

### Oral Session 39: Feeds & Feeding (Ruminants) (4)

Thursday, 25 August 14:00-16:00 Room N301

*Chairs:* Mardiaty Zain Andalus University  
 Edgar Orden Central Luzon State University  
 Hajime Kumagai Graduate School of Agriculture, Kyoto University  
 Genki Ishigaki University of Miyazaki  
 Astuti Andriyani Universitas Gadjah Mada

- 0-39-1 Supplementation of mineral (Phosphor and Sulfur ) and *Saccharomyces cerevisiae* in diet based of Cocoa by product of Sheep**  
 Mardiaty Zain, Irsan Ryanto, Erpomen Erpomen  
 Andalus University
- 0-39-2 Effect of alfalfa hay feeding on nitrogen utilization of Simmental beef cattle kept in Gansu province, China**  
 Toshiyoshi Ichinohe<sup>1</sup>, Atsushi Tsunekawa<sup>2</sup>, Tianhai Yan<sup>3</sup>, Xianjiang Chen<sup>4</sup>, Fujiang Hou<sup>4</sup>, Nobuyuki Kobayashi<sup>2</sup>  
<sup>1</sup> Faculty of Life and Environmental Science, Shimane University, Japan,  
<sup>2</sup> Arid Land Research Center, Tottori University, Japan,  
<sup>3</sup> Agri-Food and Biosciences Institute, UK,  
<sup>4</sup> College of Pastoral Agriculture Science and Technology, Lanzhou University, China

- 0-39-3 Yield and forage quality in the canopy of napiergrass genotypes**  
 Hamid Kadwal<sup>1</sup>, Yasuyuki Ishii<sup>2</sup>, Yusuke Iki<sup>3</sup>, Sachiko Idota<sup>2</sup>  
<sup>1</sup>Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki,  
<sup>2</sup>Faculty of Agriculture, University of Miyazaki, <sup>3</sup>Graduate School of Agriculture, University of Miyazaki
- 0-39-4 Evaluation of adaptability of Brachiaria cultivars in the temperate and humid area of Japan**  
 Genki Ishigaki, Pattama Nitthaisong, Yogi Sidik Prasogo, Kiichi Fukuyama, Ryo Akashi  
 Faculty of Agriculture, University of Miyazaki
- 0-39-5 EFFECT OF Aerva lanata AND Cassia auriculata EXTRACTS AND SYNTHETIC ANTIOXIDANT: BUTYLATED HYDROXYTOLUENE ON THE RANCIDITY OF VEGETABLE OIL**  
 Kularathne K C Deshani<sup>1</sup>, H M Gayani Priyadarshani Herath<sup>1</sup>, Sumudu Dissanayake<sup>2</sup>  
<sup>1</sup>Department of Livestock Production Faculty of Agricultural Sciences, Sabaragamuwa University of Sri Lanka, Sri Lanka,  
<sup>2</sup>Gold Coin Feed Mills (Lanka), Sri Lanka
- 0-39-6 Effect of different long-term storage with rice bran-CaCO<sub>3</sub> of aerobic thermolignocellolytic inoculums on fiber compound content of fermented rice straw**  
 Andriyani Astuti, Lies Mira Yusiati, Zaenal Bachruddin, Asih Kurniawati  
 Faculty of Animal Science Universitas Gadjah Mada Indonesia
- 0-39-7 THE EFFECTS OF COCONUT MEAT WASTE AS FEED ALTERNATIVE IN SHEEP RATION ON CHOLESTEROL CONTENT AND MEAT QUALITY**  
 Muhlisin Muhlisin, Cuk Tri Noviandi, Ristianito Utomo, Lies Mira Yusiati  
 Faculty of Animal Science, Universitas Gadjah Mada
- 0-39-8 Effects of supplementary mother liquor from mono sodium glutamate on in vitro rumen fermentation of roughage and concentrate as substrates**  
 Hajime Kumagai<sup>1</sup>, Yoshiaki Sato<sup>1</sup>, Motoharu Takeda<sup>2</sup>, Takashi Nakanishi<sup>1</sup>, Lin Wang<sup>1</sup>, Kazato Oishi<sup>1</sup>, Hiroyuki Hirooka<sup>1</sup>  
<sup>1</sup>Graduate School of Agriculture, Kyoto University, <sup>2</sup>Ajinomoto Co., Inc.
- 0-39-9 SILAGE QUALITY OF BMR SORGHUM AND SWEET SORGHUM GROWTH ON SEDIMENTATION ULTISOL SOIL**  
 Widhi Kurniawan<sup>1,3</sup>, Syam Rahadi<sup>1</sup>, Rahman Rahman<sup>1</sup>, Luki Abdullah<sup>2</sup>, Panca Dewi<sup>2</sup>, Suprianto Suprianto<sup>3</sup>  
<sup>1</sup>Faculty of Animal Science, Universitas Halu Oleo, <sup>2</sup>Faculty of Animal Science, Bogor Agricultural University,  
<sup>3</sup>SEAMEO Biotrop
- 0-39-10 CHALLENGES FOR IMPROVING BEEF SUPPLY WHERE LARGE RUMINANT REPRODUCTIVE MANAGEMENT IS ABSENT**  
 Russell David Bush<sup>1</sup>, Nina Matsumoto<sup>1</sup>, Sonevilay Nampanya<sup>1</sup>, Syseng Khounsouy<sup>2</sup>, James Robert Young<sup>1</sup>, Katherine Ashley<sup>1</sup>, Peter Andrew Windsor<sup>1</sup>  
<sup>1</sup>University of Sydney, Faculty of Veterinary Science, <sup>2</sup>Department of Livestock and Fisheries, Lao PDR

## Oral Session 40: Animal Nutrition (Ruminants) (4)

Thursday, 25 August 14:00-16:00 Room N302

*Chairs:* Lies Mira Yusiati Universitas Gadjah Mada  
 Bachruddin Zaenal Universitas Gadjah Mada  
 Jayanegara Anuraga Bogor Agricultural University

- 0-40-1 ESTIMATION OF MICROBIAL PROTEIN SYNTHESIS BASED ON EXCRETION OF PURINE DERIVATES USING SPOT SAMPLING METHODE IN FAT-TAIL AND THIN-TAIL SHEEP**  
 Tutik Lusya Aulyani, Lies Mira Yusiati, Budi Prasetyo Widyobroto, Zaenal Bachrudin, Chusnul Hanim  
 Faculty of Animal Science, Universitas Gadjah Mada

- O-40-2 Effect of Fungal Treated Oil Palm Fronds in the Diet of Goats**  
Pin Chanjula<sup>1</sup>, Vasun Petcharat<sup>2</sup>, Puwadon Hamchara<sup>1</sup>, Anusong Cherdthong<sup>3</sup>  
 Prince of Songkla University
- O-40-3 Nutritional Status of Kacang Goats Fed Ruminally Undegradable Protein to Improve their Productivity**  
A Kustantinah<sup>1</sup>, Edwin Indarto<sup>1</sup>, Rusman<sup>1</sup>, I Gede Suparta Budisatria<sup>1</sup>, Retno Adiwiniarti<sup>2</sup>  
<sup>1</sup> Universitas Gadjah Mada, Indonesia, <sup>2</sup> Faculty of Animal Agriculture, Universitas Diponegoro, Indonesia
- O-40-4 Effects of replacing concentrate with wet soya milk residue on intake, digestibility and growth performance of goats**  
Pattaraporn Tatsapong  
 Naresuan University, Faculty of Agriculture, Natural Resources and Environment
- O-40-5 The Sodium nitrate addition in total mixture fermentation of tofu waste as ration on methane production of the rumen fluid**  
Zaenal Bachruddin, Sifa Latiefah  
 Gadjah Mada University
- O-40-6 Digestibility and Nitrogen Balance of Male Bligon and Kejobong Goat Fed Peanuts Straw**  
Lies Mira Yusiati, Chusnul Hanim, Dianestu Putra  
 Faculty of Animal Science, Universitas Gadjah Mada
- O-40-7 The comparison of nutrient digestibility of Bligon and Kejobong goats fed king grass and peanuts straw**  
Chusnul Hanim, Lies Mira Yusiati, I Gede Suparta Budisatria, Fandi Widya Rachman  
 Faculty of Animal Science, Universitas Gadjah Mada
- O-40-8 STUDY FOR DOMINANCE AND NUTRITION OF WEEDS AS FEED IN VARIOUS CROP LAND IN YOGYAKARTA**  
Bambang Suwignyo, Nafiatul Umami, Nilo Suseno, Wahyudin Wahyudin, Bambang Suhartanto  
 Faculty of Animal Science, Gadjah Mada University
- O-40-9 Effect of whole Krabok seed, krabok oil or krabok residue on in vitro methane production.**  
Paiwan Panyakaew<sup>1,2</sup>, Thomas Schonewille<sup>3</sup>, Chalermpon Yougklang<sup>4</sup>, Wouter Hendriks<sup>1,3</sup>  
<sup>1</sup> Department of Animal Sciences, Wageningen University, The Netherlands,  
<sup>2</sup> Department of Animal Science, Faculty of Natural Resources, Rajamangala University of Technology Isan, Sakon-Nakhon Campus, Thailand,  
<sup>3</sup> Animal Nutrition division, Department of Farm Animal Health, Faculty of Veterinary Medicine, Utrecht University, The Netherlands,  
<sup>4</sup> Department of Agricultural Technology and Environment, Faculty of Science and Liberal Arts, Rajamangala University of Technology-Isan, Thailand
- O-40-10 Determination of energy and protein requirements of sheep in Indonesia using a meta-analytical approach**  
Anuraga Jayanegara, Muhammad Ridla, Erika B. Laconi, Nahrowi Nahrowi  
 Department of Nutrition and Feed Technology, Faculty of Animal Science, Bogor Agricultural University, Indonesia

## Oral Session 41: Environment & Behaviour

Thursday, 25 August 14:00-16:00 Room N303

*Chairs:* E Baliarti Faculty of Animal Science  
Kunio Sugahara Utsunomiya University

### **0-41-2 Effects of high ambient temperature on physiological responses and brain oxidative condition in growing chickens**

Kunio Sugahara<sup>1</sup>, So Satoh<sup>1</sup>, Alam Mohammad Rashedul<sup>2</sup>, Naohiro Nihei<sup>1</sup>, Yoshizawa Fumiaki<sup>1</sup>

<sup>1</sup>Utsunomiya University, <sup>2</sup>Chittagong Veterinary and Animal Sciences University

### **0-41-4 Monitoring aggressive behavior of male Japanese Large Game (Oh-Shamo) chicks using resident-intruder test**

Said Majdood Raihan<sup>1</sup>, Atsushi Takenouchi<sup>1</sup>, Masaoki Tsudzuki<sup>1,2</sup>, Shin-Ichi Kawakami<sup>1,2</sup>

<sup>1</sup>Graduate School of Biosphere Science, Hiroshima University,  
<sup>2</sup>Japanese Avian Bioresource Project Research Center, Hiroshima University

### **0-41-5 Beef Cattle Farmers Attitude towards Environmental and Socioeconomic Development in Yogyakarta Province**

Siti Andarwati, Tri Anggraeni Kusumastuti, Gagah Radhitya Widiaseana

Faculty of Animal Science, Gadjah Mada University

### **0-41-6 BEHAVIOUR OF BALI CATTLE DURING GRAZING IN PALM OIL PLANTATION RIAU, INDONESIA**

E Baliarti, B Suhartanto, M Hamdani, A Agus, I.G.S. Budisatria, Panjono, B Suwignyo, B Guntoro, Trisakti, S Bintara, Yuriadi, B A Atmoko, Y Galih, F Aryanti

Universitas Gadjah Mada, Faculty of Animal Science, Indonesia

### **0-41-7 Effect of Fishery Related Activities on the Food and Nutrition Situation of Indigenous Community : A Study of Adolescent girl**

Shireen Nigar<sup>1</sup>, Takeshi Shimosato<sup>1,2</sup>, Abu Torab Md. Abdur Rahim<sup>3</sup>

<sup>1</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University,  
<sup>2</sup>Institute for Biomedical Sciences, Shinshu University, <sup>3</sup>Institute of Nutrition and Food Science, Dhaka University

### **0-41-8 Design Build Purification Tubes With Alkaline Mineral Adsorbent As Improving The Quality Of Biogas As A source of Renewable Energy**

Herwintono Radji

Muhammadiyah University in Malang

### **0-41-9 The Use of Sodium Hydroxide As Adsorbent to improve biogas quality At different position of purification tube**

Endang Sri Hartatie

Muhammadiyah University in Malang

### **0-41-10 Performance of Hissar cattle (Bos indicus) in the Dry Tropics of Sumbawa, Eastern Indonesia**

S H Dilaga, D Dahlanuddin

Faculty of Animal Science University of Mataram, Indonesia

## Poster Session Program

**Day1: Tuesday, 23 August [Kyushu Sangyo University]**

### Poster Session 01

Tuesday, 23 August 9:00-11:00 Room Circle Hall

- PO-01-1 Growth pattern of young progeny test steers and relationship between the carcass measurements in Japanese Black (Wagyu)**  
 Yousuke Kodama<sup>1</sup>, Fortune Jomane<sup>2</sup>, Kensuke Okuhata<sup>1</sup>, Takumi Totsu<sup>1</sup>, Takafumi Ishida<sup>1</sup>, Tadaaki Tokunaga<sup>1</sup>  
<sup>1</sup> Faculty of Agriculture, University of Miyazaki,  
<sup>2</sup> Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki
- PO-01-2 The multiple regression analysis to estimate the unit price of Hanwoo (Bos taurus coreanae) meat**  
 Seung-hoon Eum, Hu-Rak Park, Jakyeom Seo, Seong-Keun Cho, Byeong-Woo Kim  
 Dept. of Animal Science, Pusan National University, Korea
- PO-01-3 ISOLATION AND ANALYSIS OF MICROSATELLITE MARKERS WITH HIGHLY POLYMORPHISM FOR TSAIYA DUCK POPULATIONS IN TAIWAN**  
 Fang-Yu Lai<sup>1</sup>, Yi-Ying Chang<sup>2</sup>, Pei-Hwa Wang<sup>1</sup>, Hsiu-Chou Liu<sup>2</sup>, En-Chung Lin<sup>1</sup>, Shih-Torng Ding<sup>1</sup>  
<sup>1</sup> Department of Animal Science and Technology, National Taiwan University,  
<sup>2</sup> I-Lan Branch, Livestock Research Institute, Council of Agriculture
- PO-01-4 MACHINE AND TECHNICIAN EFFECTS ON ULTRASOUNIC MEASURES OF BACKFAT, LOIN DEPTH, AND LONGISSIMUS MUSCLE AREA IN PUREBRED PIGS**  
 Chih-Yu Lin<sup>1,2</sup>, Ya-Chun Kang<sup>1</sup>, Miao-Ju Chien<sup>1</sup>, Pei-Mei Chen<sup>3</sup>, Ling-Ling Lo<sup>1</sup>  
<sup>1</sup> Department of Animal Science, Chinese Culture University, Taiwan,  
<sup>2</sup> Department of Biotechnology and Animal Science, National Ilan University, Taiwan,  
<sup>3</sup> Department of Animal Industry, Council of Agriculture, Executive Yuan, Taiwan
- PO-01-5 Comparison of the growth curve models of Hanwoo steer (Bos taurus coreanae)**  
 Hu-Rak Park<sup>1</sup>, Seung-Hoon Eum<sup>1</sup>, Seung-Hee Roh<sup>2</sup>, Jakyeom Seo<sup>1</sup>, Seong-Keun Cho<sup>1</sup>, Byeong-Woo Kim<sup>1</sup>  
<sup>1</sup> Dept. of Animal Science, Pusan National University, Korea,  
<sup>2</sup> Hanwoo Improvement Center, NACF, Korea
- PO-01-6 Efficiency of Genomic Selection to Improve Meat Quality in Pigs Using ZPLAN+**  
 Bryan Irvine Lopez, Vanessa Viterbo, Milton Tinashe Makumbe, Tae Hun Kim, Choul Won Song, Kang Seok Seo  
 Suncheon National University
- PO-01-7 Genetic evaluation of growth and carcass traits for those on-farm tested Duroc boars in 2014**  
 RUEI-SYUAN WU<sup>1</sup>, SHU-HAN DING<sup>1</sup>, LING-LING LO<sup>2</sup>, SHYH-FORNG GUO<sup>3</sup>, PEI-YU LIN<sup>3</sup>, GUI-ZHU LIU<sup>4</sup>, PEI-MEI CHEN<sup>5</sup>, NEIM-TSU YEN<sup>6</sup>, CHONG-SHU WANG<sup>5</sup>, ZHONG-XING CHEN<sup>5</sup>, EN-CHUNG LIN<sup>1</sup>  
<sup>1</sup> Department of Animal Science and Technology, National Taiwan University,  
<sup>2</sup> Department of Animal Science, Chinese Culture University,  
<sup>3</sup> Animal Technology Laboratories, Agricultural Technology Research Institute,  
<sup>4</sup> Formosan Farmers Association for Swine Improvement,  
<sup>5</sup> Council of Agriculture, Executive Yuan,  
<sup>6</sup> Livestock Research Institute, Council of Agriculture, Executive Yuan

**PO-01-8 Identification of a Visual Appraisal Tool for Evaluating Pork Belly Quality in Yorkshire Pigs**

Milton Tianshe Makumbe<sup>1,2</sup>, Hoon-Seop Kim<sup>1</sup>, Kang-Seok Seo<sup>1</sup>, Tae-Hun Kim<sup>1</sup>, Hyun-Sung Kang<sup>1</sup>,  
Chul-Won Song<sup>1</sup>, Vanessa Viterbo<sup>1</sup>, Bryan Lopez<sup>1</sup>

<sup>1</sup> Department of Animal Science and Technology, Suncheon National University, Korea,

<sup>2</sup> Department of Research and Specialist Services, Zimbabwe

**PO-01-9 The effect of knockdown of IFNAR by RNAi on expression of IFN-  $\tau$  induced genes in bovine endometrial epithelial cells**

Takahiro Shirozu<sup>1</sup>, Toshiyuki Suzuki<sup>1</sup>, Hiroki Iwano<sup>1</sup>, Takatoshi Ogiso<sup>1</sup>, Hanako Bai<sup>1</sup>, Manabu Kawahara<sup>1</sup>,  
Koji Kimura<sup>2</sup>, Masashi Takahashi<sup>1</sup>

<sup>1</sup> Research Faculty of Agriculture, Hokkaido University,

<sup>2</sup> Graduate School of Environmental and Life Science, Okayama University

**PO-01-10 Association of SNPs on the GH and PRL genes with egg production traits in Brown Tsaiya ducks**

Kai-Hsiang Lin<sup>1</sup>, Yi-Ying Chang<sup>2</sup>, Hsiu-Chou Liu<sup>2</sup>, Jen-Chieh Yang<sup>1</sup>, Zhen-Ying Wu<sup>1</sup>, Yi-Chen Chen<sup>1</sup>

<sup>1</sup> Department of Animal Science and Biotechnology, Tunghai University, Taiwan,

<sup>2</sup> I-Lan Branch, Livestock Research Institute, Council of Agriculture, Taiwan

**PO-01-11 Evaluation of Caprine POU1f1 Gene and Their Associations With Growth Traits of Nubian Goats**

Po-An Tu<sup>1,2</sup>, Chiung-Ying Yin<sup>2</sup>, Pei-Hwa Wang<sup>2</sup>

<sup>1</sup> Hengchun Branch, Livestock Research Institute, C.O.A., Taiwan,

<sup>2</sup> Department of Animal Science and Technology, National Taiwan University

**PO-01-12 Estimation of genetic parameters for stillbirth of Japanese Black cattle in Kagoshima**

Hidemi Oyama<sup>1</sup>, Kazutaka Nishi<sup>2</sup>, Kiyoto Imamura<sup>3</sup>, Shinichi Sakamoto<sup>3</sup>, Kotaro Kawabe<sup>4</sup>, Shin Okamoto<sup>1</sup>,  
Takeshi Honda<sup>5</sup>, Kenji Oyama<sup>5</sup>, Takeshi Shimogiri<sup>1</sup>

<sup>1</sup> Kagoshima University, Faculty of Agriculture,

<sup>2</sup> Wagyu Registry Association,

<sup>3</sup> Wagyu Registry Association, Kagoshima Branch,

<sup>4</sup> Kagoshima University, Natural Science Centre for Research and Education,

<sup>5</sup> Kobe University, Graduate School of Agricultural Science

**PO-01-13 Effect of Days to Parturition and Locality of Hanwoo Pregnant Cows on Ultrasound Scan Measures by Parity**

Chang Min Jeon, Jeong Mi Hwnag, Jae Kyoung Cheong, Young Kon Park, Tae Sung Kim,  
Joong Kook Park, Jae Yoon Shim, Ho Nam Choi, Dong Soo Lee

Livestock Research Institute, National Agriculture Cooperative Federation

**PO-01-14 A comparison of metabolic parameters of plasma and muscle between healthy growing, healthy but stunted, and colibacillosis piglets**

Takahiro Kawase<sup>1,3</sup>, Ryo Inoue<sup>2</sup>, Yuki Kawada<sup>2</sup>, Shozo Tomonaga<sup>4</sup>, Kiyonori Kawasaki<sup>5</sup>, Mitsuhiro Furuse<sup>3</sup>,  
Takamitsu Tsukahara<sup>1,2</sup>

<sup>1</sup> Kyoto Institute of Nutrition & Pathology, Ujitawara, Kyoto, Japan,

<sup>2</sup> Laboratory of Animal Science, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Japan,

<sup>3</sup> Laboratory of Regulation in Metabolism and Behavior, Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University, Japan,

<sup>4</sup> Laboratory of Nutritional Science for Animals, Division of Applied Biosciences, Graduate School of Agriculture, Kyoto University, Japan,

<sup>5</sup> Laboratory of Animal Nutrition, Bioresource Production Science, Faculty of Agriculture, Kagawa University, Japan

**PO-01-15 Differential Expression of Genes for Extracellular Matrix Molecules and Their Regulators in Longissimus Muscle between Korean Cattle Bulls and Steers**

Seung Ju Park, Sang Weon Na, Myunggi Baik

Seoul National University

**PO-01-16 JAK/STAT signaling pathway related genes differentially expressed in Necrotic Enteritis induced Fayoumi Chicken Lines**

Anh Duc Truong<sup>1</sup>, Yeojin Hong<sup>1</sup>, Cong Thanh Hoang<sup>1</sup>, Yeong Ho Hong<sup>1</sup>, Hyun S Lillehoj<sup>2</sup>

<sup>1</sup> Chung-Ang University, <sup>2</sup> United States Department of Agriculture Beltsville, USA

**PO-01-17 Differential Expression of Genes for Glucose and Glycogen Metabolism in the Liver between Bulls and Steers of Korean Cattle**

Dilla Mareistia Fassah, Seung Ju Park, Sang Weon Na, Myunggi Baik

Seoul National University

**PO-01-18 Evaluation of the genetic structure of a synthetic pig strain maintained for 17 years**

Gaku Tahara<sup>1</sup>, Kenichi Nagai<sup>1</sup>, Isao Hyodo<sup>2</sup>, Sadao Kojima<sup>2</sup>, Hisashi Ushugi<sup>2</sup>, Koh Nomura<sup>1</sup>,

Yukimizu Takahashi<sup>1</sup>, Eiji Kobayashi<sup>1,3</sup>, Tsutomu Furukawa<sup>1</sup>

<sup>1</sup> Graduate School of Agriculture, Tokyo University of Agriculture,

<sup>2</sup> Ome Center for Animal Husbandry, Tokyo Development Foundation for Agriculture, Forestry, and Fisheries,

<sup>3</sup> National Institute of Livestock and Grassland Science, NARO

**PO-01-19 Identification of the SNPs in DCT gene and Their Associations with Plumage Colors in Asian Ducks**

Hasina Sultana<sup>1</sup>, Dong-Won Seo<sup>1</sup>, Nu-Ri Choi<sup>1</sup>, Kang-Nyeong Heo<sup>2</sup>, Seung Hwan Lee<sup>1</sup>, Jun-Heon Lee<sup>1</sup>

<sup>1</sup> Division of Animal and Dairy Science, Chungnam National University, Korea,

<sup>2</sup> Poultry Science Division, National Institute of Animal Science, RDA, Korea

**PO-01-20 Molecular genetic study of feral cattle on Kuchinoshima Island using fecal samples**

Lwin Moe<sup>1</sup>, Misao KANEMAKI<sup>2</sup>, Yoshi KAWAMOTO<sup>3</sup>, Kotaro KAWABE<sup>4</sup>, Shin OKAMOTO<sup>1,5</sup>,

Takeshi SHIMOGIRI<sup>1,5</sup>

<sup>1</sup> The United Graduate School of Agricultural Sciences, Kagoshima University,

<sup>2</sup> Institute of Animal Science,

<sup>3</sup> Primate Research Institute, Kyoto University,

<sup>4</sup> Natural Science Centre for Research and Education, Kagoshima University,

<sup>5</sup> Faculty of Agriculture, Kagoshima University

**PO-01-21 Gene expression of GCLC and GCLM to Response to Exercise Stress in Horse.**

Yu-ri Kim, Soo-Jong Hong, Jae-Young Choi, Jeong-Woong Park, Ye-Ji Song, Teak-Soon Shin,

Seong-Keun Cho, Byeong-Woo Kim, Jakyoom Seo, Byung Wook Cho

Pusan National Univeristiy

**PO-01-22 Origin of a porcine SNP of prolactin receptor gene**

Tomomi Aratani<sup>1</sup>, Keiko Takeuchi<sup>1</sup>, Syuichi Hamada<sup>1</sup>, Yaetsu Kurosawa<sup>2</sup>, Satoru Niwata<sup>3</sup>,

Takeshi Simogiri<sup>4</sup>, Hiroshi Yasue<sup>5</sup>, Masahide Nishibori<sup>1</sup>

<sup>1</sup> Hiroshima University Graduate School of Biosphere Science, Japan, <sup>2</sup> Tokyo University of Agriculture, Japan,

<sup>3</sup> KURABO, Japan, <sup>4</sup> Kagoshima University, Japan, <sup>5</sup> Tsukuba Gene Technology Laboratories Inc, Japan

**PO-01-23 Identification of transcribed quail Mhc class II  $\beta$  loci of haplotype\*01 via amplicon sequencing of cDNA by next generation sequencer**

Sakurako Asaji<sup>1</sup>, Shingo Suzuki<sup>2</sup>, Kazuyoshi Hosomichi<sup>3</sup>, Hiromi Hara<sup>1</sup>, Takashi Hirano<sup>1</sup>, Takashi Shiina<sup>2</sup>,

Kei Hanzawa<sup>1</sup>

<sup>1</sup> Tokyo University of Agriculture, <sup>2</sup> Tokai University School of Medicine, <sup>3</sup> Kanazawa University

**PO-01-24 Study on domestication process of Asian junglefowls**

Yuto Kurosawa<sup>1</sup>, Sayed A.-M Osman<sup>1,2</sup>, Yoshio Yamamoto<sup>1</sup>, Masahide Nishibori<sup>1</sup>

<sup>1</sup> Graduate School of Biosphere Science, Hiroshima University, <sup>2</sup> Faculty of Agriculture, Minia University, Egypt

**PO-01-25 Morphological and molecular phylogenetic analysis of Ryukyu wild boar**

Keiko Takeuchi<sup>1</sup>, Shuichi Hamada<sup>1</sup>, Tomomi Aratani<sup>1</sup>, Maho Ito<sup>1</sup>, Yaetsu Kurosawa<sup>2</sup>, Masaru Takada<sup>3</sup>, Satoru Niwata<sup>4</sup>, Takeshi Shimogiri<sup>5</sup>, Shin Watanabe<sup>6</sup>, Hiroshi Yasue<sup>7,8</sup>, Masahide Nishibori<sup>1</sup>

<sup>1</sup> Graduate School of Biosphere Science, Hiroshima University, Japan, <sup>2</sup> Tokyo University of Agriculture, Japan, <sup>3</sup> Okinawa Zoo and Museum, Japan, <sup>4</sup> KURABO, Japan, <sup>5</sup> Kagoshima University, Japan, <sup>6</sup> Iriomote Station, Tropical Biosphere Research Center University of the Ryukyus, Japan, <sup>7</sup> National Institute of Agrobiological Sciences, Japan, <sup>8</sup> Tsukuba Gene Technology Laboratories Inc, Japan

**PO-01-26 Relationship between IAPP exon polymorphisms and carcass-related traits**

Takashi Ono<sup>1</sup>, Hiroki Ushijima<sup>1</sup>, Atsushi Takenouchi<sup>1</sup>, Masaoki Tsudzuki<sup>1,2</sup>

<sup>1</sup> Graduate School of Biosphere Science, Hiroshima University, <sup>2</sup> Japanese Avian Bioresource Project Research Center, Hiroshima University

**PO-01-27 Study on molecular discrimination for animal species using DNA polymorphism**

Fumika Ito<sup>1</sup>, Ryouki Onishi<sup>1</sup>, Yuki Yamashita<sup>2</sup>, Yasue Hiroshi<sup>3,4</sup>, Masahide nishibori<sup>1</sup>

<sup>1</sup> Hiroshima University Graduate School of Biosphere Science, <sup>2</sup> KURABO INDUSTRIES LTD., <sup>3</sup> National institute of Agrobiological Sciences, <sup>4</sup> Tsukuba Gene Technology Laboratories Inc.

**PO-01-28 Development of a novel laparoscopic artificial insemination equipment for goats**

Ting-Chieh Kang<sup>1,2</sup>

<sup>1</sup> Animal Physical Division of Council of Agriculture-Livestock Research Institute, <sup>2</sup> Department of Animal Science, National Pingtung University of Science and Technology

**PO-01-29 Effect of downregulating ZSCAN4 transcript on early development and gene expression of bovine embryos**

Kazuki Takahashi<sup>1</sup>, Nobuyuki Sakurai<sup>2</sup>, Natsuko Emura<sup>1</sup>, Tsutomu Hashizume<sup>1,2</sup>, Ken Sawai<sup>1,2</sup>

<sup>1</sup> Faculty of Agriculture, Iwate University, <sup>2</sup> United Graduate School of Agricultural Sciences, Iwate University

**PO-01-30 The necessity of OCT-4 expression for the segregation of trophectoderm lineages in porcine preimplantation embryos.**

Natsuko Emura<sup>1</sup>, Nobuyuki Sakurai<sup>2</sup>, Kazuki Takahashi<sup>1</sup>, Tsutomu Hashizume<sup>1,2</sup>, Ken Sawai<sup>1,2</sup>

<sup>1</sup> Faculty of Agriculture, Iwate University, <sup>2</sup> United Graduate School of Agricultural Sciences, Iwate University

**PO-01-31 Comparative analysis of histone methylation patterns in chicken embryonic germ cells**

Nozomi Kurumisawa, Daichi Miyahara, Yukiko Aoyagi, Tamao Ono, Hiroshi Kagami

Faculty of Agriculture, Shinshu University

**PO-01-32 The potential of hepatocyte-like cells differentiation from bovine derived placenta stem cells**

Mei-Mei Yu, Yu-Sheng Hsieh, Shao-Yu Peng

National Pingtung University of Science and Technology

**PO-01-33 Comparison of different glucose concentration in islet -like cells differentiation from bovine derived placental stem cells**

Chien-Wen Chou, Yu-Hsuan Kuo, Shao-Yu Peng

National Pingtung University of Science and Technology

**PO-01-34 Evaluation of three hormonal protocols for lactating anestrous Holstein cows**

Guang-Min Yu<sup>1,2</sup>, Shen-Ming Zeng<sup>2</sup>, Teruo Maeda<sup>1</sup>

<sup>1</sup> Hiroshima University, <sup>2</sup> China Agricultural University

**PO-01-35 Restriction of lactation at neonatal stage increases number of primordial follicles in mice.**

Ren Watanabe<sup>1</sup>, Naoko Kimura<sup>1,2</sup>

<sup>1</sup> Laboratory of Animal Reproduction, United Graduate School of Agricultural Sciences, Iwate University, <sup>2</sup> Laboratory of Animal Reproduction, Graduate School of Agricultural Science, Yamagata University

**PO-01-36 Intraperitoneal injection of the primordial germ cells to natal mice**

Hiroya Nakamura, Kazuei Matsubara

Graduate School of Agriculture, Iwate University

**PO-01-37 Trial of nuclear transfer from bovine freeze-dried fibroblast cells**

Shinnosuke Tamura<sup>1</sup>, Satoshi Akagi<sup>2</sup>, Shin Hongo<sup>1</sup>, Akihiko Ichikawa<sup>3</sup>, Toshinori Oikawa<sup>4</sup>, Loi Pasqualino<sup>5</sup>, Kazutsugu Matsukawa<sup>1</sup>

<sup>1</sup> Faculty of Agriculture and Marine Science, Kochi University, <sup>2</sup> Institute of Livestock and Grassland Science, NARO, <sup>3</sup> Department of Mechatronics Engineering, Meijo University, <sup>4</sup> Miyagi Prefectural Livestock Experiment Station, <sup>5</sup> University of Teramo

**PO-01-38 Differential protein expression in gander spermatozoa with different motility using isobaric tags for relative and absolute quantification**

An-Ci Jian<sup>1</sup>, Min-Jung Lin<sup>2</sup>, Shen-Chang Chang<sup>2</sup>, Chuen-Yu Cheng<sup>1</sup>, Zi-Xuan Zhuang<sup>1</sup>, Chao-Jung Chen<sup>3,4</sup>, San-Yuan Huang<sup>1,5,6,7</sup>

<sup>1</sup> Department of Animal Science, National Chung Hsing University, <sup>2</sup> Changhua Animal Propagation Station, Livestock Research Institute, Council of Agriculture, <sup>3</sup> Proteomics Core Laboratory, Department of Medical Research, China Medical University Hospital, <sup>4</sup> Graduate Institute of Integrated Medicine, China Medical University, <sup>5</sup> Agricultural Biotechnology Center, National Chung Hsing University, <sup>6</sup> Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University, <sup>7</sup> Center of Nanoscience and Nanotechnology, National Chung Hsing University

**PO-01-39 Characteristics of bovine fibroblast cells after freeze drying**

Shin Hongo<sup>1</sup>, Shinnosuke Tamura<sup>1</sup>, Satoshi Akagi<sup>2</sup>, Akihiko Ichikawa<sup>3</sup>, Toshinori Oikawa<sup>4</sup>, Keisuke Edashige<sup>1</sup>, Kazutsugu Matsukawa<sup>1</sup>

<sup>1</sup> Faculty of Agriculture and Marine Science, Kochi University, <sup>2</sup> Institute of Livestock and Grassland Science, NARO, <sup>3</sup> Department of Mechatronics Engineering, Meijo University, <sup>4</sup> Miyagi Prefectural Livestock Experiment Station

**PO-01-40 EFFECTIVENESS OF TWO BREEDING METHODS WITH ESTRUS SYNCHRONIZATION IN ETTAWA GRADE GOATS USING CONTROLLED INTERNAL DRUG RELEASE**

Mohammad Firdaus Hudaya, Shifa Dilia Nindyawati, Widya Asmarawati

Universitas Gadjah Mada, Faculty of Animal Science

**PO-01-41 The effects of different vitrification method on cryopreservation of bovine embryos**

Y. H. Chen<sup>1,2</sup>, Y. M. Horng<sup>2</sup>, L. R. Chen<sup>1</sup>, C. P. Wu<sup>2</sup>

<sup>1</sup> Taiwan Livestock Research Institute, Council of Agriculture, <sup>2</sup> National Chiayi University

**PO-01-42 Aging and additive oxidative stress influences female ovarian functions in mice**

Momoko Kodaira<sup>1</sup>, Hiromi Ikeda<sup>1</sup>, Yamaguchi Takeshi<sup>1</sup>, Yamauchi Nobuhiko<sup>2</sup>, Chowdhury Vishwajit S.<sup>3</sup>, Shinobu Yasuo<sup>1</sup>, Mitsuhiko Furuse<sup>1</sup>

<sup>1</sup> Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University, Japan, <sup>2</sup> Laboratory of Animal Reproductive Physiology, Faculty of Agriculture, Kyushu University, Japan, <sup>3</sup> Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan

**PO-01-43 The relationship between delivery season and postpartum reproductive performance in Japanese beef seasonal breeding cattle**

Kyoko Kawakami<sup>1</sup>, Saki Tanabe<sup>2</sup>, Chikako Tani<sup>3</sup>, Hiromu Katamoto<sup>3</sup>, Shuichi Ito<sup>2</sup>, Yosuke Sasaki<sup>3</sup>, Tadaaki Tokunaga<sup>3</sup>, Mineto Tani<sup>2</sup>

<sup>1</sup> Graduate School of Agriculture, University of Miyazaki, <sup>2</sup> Faculty of Agriculture, Tokai university, <sup>3</sup> Faculty of Agriculture, University of Miyazaki

**PO-01-44 Changes in responsiveness of Interferon-stimulated genes at early pregnancy in Borna disease virus infected cows**

Tadashi Takino<sup>1,2</sup>, Taku Okamura<sup>1</sup>, Tatsuya Ando<sup>3</sup>, Katsuro Hagiwara<sup>1</sup>

<sup>1</sup> Rakuno Gakuen University School of Veterinary Medicine, <sup>2</sup> Scientific Feed Laboratory co.,Ltd., <sup>3</sup> Veterinary Clinical Center, Ishikari district NOSAI Hokkaido

**PO-01-45 Temporal alternations in DNA methylation patterns of spermatozoa in early young mice**

Norio Kobayashi<sup>1</sup>, Hiroaki Okae<sup>2</sup>, Hitoshi Hiura<sup>2</sup>, Hatsune Chiba<sup>2</sup>, Yoshiki Shirakata<sup>1</sup>, Kenshiro Hara<sup>1</sup>, Takahiro Arima<sup>2</sup>, Kentaro Tanemura<sup>1</sup>

<sup>1</sup> Tohoku University Graduate School of Agricultural Science, <sup>2</sup> Tohoku University Graduate School of Medicine

**PO-01-46 M-phase stage-dependent kinase inhibitors affect expression and localization of inositol 1,4,5-trisphosphate receptor 1 (IP3R1) expression in pig oocytes**

Maki Kamoshita<sup>1</sup>, Anucha Sathanawongs<sup>3</sup>, Katsuyoshi Fujiwara<sup>1</sup>, Tsubasa Kato<sup>1</sup>, Masahiko Hirose<sup>1</sup>, Junya Ito<sup>1,2</sup>, Naomi Kashiwazaki<sup>1,2</sup>

<sup>1</sup> Graduate School of Veterinary Sciences, Azabu University, <sup>2</sup> School of Veterinary Medicine, Azabu University, <sup>3</sup> Faculty of Veterinary Medicine, Chiang Mai University

**PO-01-47 Changes in the morphological status of cumulus cells surrounding canine oocytes and their effects upon in vitro maturation.**

Akane Sato<sup>1,2</sup>, Borjigin Sarentonglaga<sup>1</sup>, Kazuko Ogata<sup>1,3</sup>, Mio Yamaguchi<sup>1,2</sup>, Asuka Hara<sup>1,2</sup>, Khurchabiling Atchalalt<sup>1,2</sup>, Mikio Wakabayashi<sup>4</sup>, Kenji Nishihara<sup>4</sup>, Rika Fukumori<sup>1</sup>, Yoshikazu Nagao<sup>1,2</sup>

<sup>1</sup> University Farm, Faculty of Agriculture, Utsunomiya University, Japan, <sup>2</sup> Department of Animal Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan, <sup>3</sup> Collaboration Center for Research and Development of Utsunomiya University, Japan, <sup>4</sup> East Japan Guide Dog Association, Japan

**PO-01-48 Analyses of the roles of EMI1, EMI2, UBE2C and UBE2S in porcine oocyte maturation**

Yoshie Fujioka, Wataru Fujii, Koji Sugiura, Kunihiko Naito

Graduate School of Agriculture and Life Sciences, The University of Tokyo

**PO-01-49 Functions of a nuclear-transport receptor, exportin-1 (XPO1), on porcine oocyte maturation**

Asuka Onuma, Wataru Fujii, Koji Sugiura, Kunihiko Naito

Graduate School of Agricultural and Life Science, The University of Tokyo

**PO-01-50 Effect of tris(2-carboxyethyl)phosphine hydrochloride on in vitro development of bovine in vitro fertilized embryos**

Junpei Mori, Takuya Ando, Takehiro Himaki

Faculty of Applied Biological Sciences, Gifu University

**PO-01-51 Differential gene expression analysis in bovine uterus at follicular, luteal and implantation stage**

Sayed Ali Askar Musavi<sup>1,2</sup>, Kouske Tashiro<sup>3</sup>, Hironori Masaka<sup>1</sup>, Md. Rashedul Islam<sup>1,4</sup>, Nobuhiko Yamauchi<sup>1</sup>

<sup>1</sup> Department of Animal and Marine Bioresource Sciences, Faculty of Agriculture, Kyushu University, Japan, <sup>2</sup> Department of Animal Science Agriculture Faculty Balkh University Afghanistan, <sup>3</sup> Department of Bioscience and Biotechnology, Faculty of Agriculture, Kyushu University, Japan, <sup>4</sup> Department of Genetics and Animal Breeding, Faculty of Veterinary and Animal Science, Hajee Mohammad Danesh Science and Technology University, Bangladesh

**PO-01-52 Fermented Pleurotus eryngii Stalk Residues and Soybean Hulls by Aureobasidium pullulans on Nutrients Digestibility and Meat quality of Broiler Chickens**

Min-Ting Lee<sup>1</sup>, Li-Ping Lai<sup>1</sup>, Wei-Chih Lin<sup>1</sup>, Jhih-Ying Ciou<sup>2</sup>, Bi Yu<sup>1</sup>, Tzu-Tai Lee<sup>1</sup>

<sup>1</sup> Department of Animal Science, National Chung Hsing University, <sup>2</sup> Department of Food Science, Tung Hai University

**PO-01-53 Oral administration of  $\beta$ -aminoisobutyric acid alters amino acid metabolism in chicks**

Kohei Matsuo, Naoki Okada, Shozo Tomonaga

Laboratory of Nutritional Science for Animals, Division of Applied Biosciences, Graduate School of Agriculture, Kyoto University

**PO-01-54 Effects of Dietary Energy and Crude Protein Levels on Growth Performance, Blood Profiles and Pork quality in Growing-finishing Pigs**

Fang Lin Hu, Tae Hee Han, Sung Ho Do, Byeong Ock Kim, Yoo Yong Kim

School of Agricultural Biotechnology, Seoul National University

**PO-01-55 Temporal changes of body conformation in Holstein-Friesian heifers**

Tomonari YAMAMOTO<sup>1</sup>, Yoshie AKIBA<sup>1</sup>, Hiroshi HIKI<sup>1</sup>, Shotaro SHIMIZU<sup>2</sup>, Atsushi ASANO<sup>1,3</sup>, Naoto ISHIKAWA<sup>1,3</sup>, Atsushi TAJIMA<sup>1,3</sup>

<sup>1</sup> Agricultural and Forestry Research Center, University of Tsukuba, Japan,

<sup>2</sup> College of Agro-bioresources, University of Tsukuba, Japan,

<sup>3</sup> Faculty of Life and Environmental Science, University of Tsukuba, Japan

**PO-01-56 EFFECT OF JAPANESE PEPPER SEEDS ON GROWTH AND HEAT STRESS IN CHICKS**

Khushdil Maroof<sup>1</sup>, Takao Oka<sup>1</sup>, Mika Fujihara<sup>2</sup>, Norikazu Hashimoto<sup>2</sup>, Takashi Bungo<sup>1</sup>

<sup>1</sup> Graduate School of Biosphere Science, Hiroshima University,

<sup>2</sup> Wakayama Prefectural Poultry Experimental Station

**PO-01-57 Measuring Functional Metabolites and Evaluating the Potential of Fermented Spent Mushroom Substrates as Feed Additive**

Tzu Hsiang Wei, Bi Yu, Tzu Tai Lee

Department of Animal Science, National Chung Hsing University, Taiwan

**PO-01-58 Evaluation the Characterization of Solid State Fermented Wheat Bran by *Bacillus amyloliquefaciens***

Chong-Ming Huang<sup>1</sup>, Po-Yun Teng<sup>1</sup>, Shen-Chang Chang<sup>2</sup>, Bi Yu<sup>1</sup>, Tzu-Tai Lee<sup>1</sup>

<sup>1</sup> Department of Animal Science, National Chung Hsing University, Taiwan,

<sup>2</sup> Changhua Animal Propagation Station, Livestock Research Institute, Council of Agriculture, Taiwan

**PO-01-59 The application of multifunction probiotic additive on feed zearalenone detoxication treatment**

Shiau-Wei Chen<sup>1</sup>, Jih-Tay Hsu<sup>1</sup>, Wei-Yuan Shih<sup>2</sup>, Han-Tsung Wang<sup>2</sup>

<sup>1</sup> Department of Animal Science and Technology, National Taiwan University,

<sup>2</sup> Department of Animal Science, Chinese Culture University

**PO-01-60 Determination of the energy content of corn different cultivars when fed to growing pigs**

Yakui Li, Zhongchao Li, Ling Liu, Xiangshu Piao, Fenglai Wang, Defa Li

State Key Laboratory of Animal Nutrition, Ministry of Agriculture Feed Industry Centre, China Agricultural University, China

**PO-01-61 The antiviral effects of *Lactobacillus reuteri* Pg4 transformant and Chinese herbal medicines**

Tsung-Hsuan Rau<sup>1</sup>, Je-Ruei Liu<sup>1,2</sup>

<sup>1</sup> National Taiwan University School of Animal Science,

<sup>2</sup> National Taiwan University School of Institute of Biotechnology

**PO-01-62 Effect of Welfare Housing Types (Floor vs. Aviary) on Egg Production Performance and Egg Lutein in Brown Laying Hens**

Hee Na Kim, William Surya Widjaya Siauw, Han Seo Ko, Hyeon Soo Jang, Yu Hyun Kang, Slamet Hartanto, Sang Jip Ohh

Kangwon National University

**PO-01-63 *Aspergillus flavus*-fermented wheat bran promotes the growth performance of broilers**

Shu-Cheng Chen<sup>1</sup>, Yi-Hua Huo<sup>1</sup>, Ruey-Shyang Chen<sup>2</sup>, Kuo-lung Chen<sup>1</sup>

<sup>1</sup> Department of Animal Science, National Chiayi University, Taiwan,

<sup>2</sup> Department of Biochemical Science and Technology of National Chiayi University

**PO-01-64 Investigating the effects of the mixed fermentation feedstuffs by the screened *Bacillus* sp. on growth performance of broilers**

Yu-Hsuan Lee, Nattapon Sirirat, Tu-Fa Lien, Kuo-Lung Chen

Department of Animal Science, National Chiayi University, Taiwan

**PO-01-65 Effect of Feed Ingredients and Feeding Method on Growth Performance, Nutrient Digestibility, Fecal Microbial Populations in Weanling Pigs**

WooHo lee, Abdolreza Hosseindoust, Suhyup Lee, Yohan Choi, Kwang yeol Kim, Semin Jeon, Minju kim, Alip Kumar, Seung min Oh, HyungBin Ham, Ill Kyong Kwon, Byung Jo Chae  
Kangwon National University

**PO-01-66 The changes of grazing time, suckling behavior and pasture forage intake by Thoroughbred foals**

Tomoki Tanabe<sup>1</sup>, Masaaki Hanada<sup>2</sup>, Tetsuro Hada<sup>3</sup>, Akira Matsui<sup>3</sup>, Fumio Sato<sup>3</sup>, Masataka Tominari<sup>3</sup>, Harutaka Murase<sup>3</sup>, Toshiyuki Takahashi<sup>4</sup>, Masahito Kawai<sup>5</sup>  
<sup>1</sup> Graduate School of Environmental Science, Hokkaido University,  
<sup>2</sup> Obihiro University of Agriculture and Veterinary Medicine,  
<sup>3</sup> Hidaka Training and Research Center, Japan Racing Association,  
<sup>4</sup> Equine Research Institute, Japan Racing Association,  
<sup>5</sup> Shizunai Livestock Farm, Hokkaido University

**PO-01-67 EFFECT OF RICE BRAN EXTRACTION OIL AND JAPANESE PEPPER SEEDS ON HEAT STRESS IN LAYER CHICKENS**

Kensuke Shimizu<sup>1</sup>, Yoshinori Komaki<sup>1</sup>, Mika Fujihara<sup>2</sup>, Norikazu Hashimoto<sup>2</sup>, Takashi Bungo<sup>1</sup>  
<sup>1</sup> Hiroshima University, <sup>2</sup> Wakayama Prefectural Poultry Experimental Station

**PO-01-68 Influence of the quality of dietary proteins on glycation of amino acids and proteins in the plasma of chickens.**

Ayaka Honma<sup>1</sup>, Kazumi Kita<sup>2</sup>  
<sup>1</sup> Iwate University Graduate School of Agriculture, <sup>2</sup> Iwate University Faculty of Agriculture

**PO-01-69 Development of potentially probiotic lactic acid bacteria on the production of fermented soybean meal**

Yu-Chun Lin<sup>1,2</sup>, Fang-Chueh Liu<sup>1</sup>, Chien-Hsun Huang<sup>3</sup>  
<sup>1</sup> Livestock Research Institute, Council of Agriculture, Executive Yuan, Taiwan,  
<sup>2</sup> Department of Animal Science and Technology, National Taiwan University, Taiwan,  
<sup>3</sup> Bioresource Collection and Research Center, Food Industry Research and Development Institute, Taiwan

**PO-01-70 Goblet cell population modulated by Schizosaccharomyce pombe particle**

Nao Idegami<sup>1</sup>, Kiyonori Kawasaki<sup>1</sup>, Yoshiya Izumi<sup>2</sup>, Naotaka Tanaka<sup>1</sup>, Peter Lutes<sup>1</sup>, Yoshiki Matsumoto<sup>1</sup>  
<sup>1</sup> Kagawa University, Faculty of Agriculture, <sup>2</sup> Biomaterial in Tokyo Co.,Ltd

**PO-01-71 Expression of Pigeon Leptin in vitro with Determination of Biological Activity**

Sadequllah Ahmadi, Shoko Namekawa, Takeshi Ohkubo  
Ibaraki University College of Agriculture

**PO-01-72 The electrical resistance value of the skin surface can be an indicator of the sweating rate in horses**

Ryuhei Tajiri<sup>1</sup>, Masato Aoyama<sup>1</sup>, Masatoshi Ihara<sup>2</sup>, Shoei Sugita<sup>1</sup>  
<sup>1</sup> Utsunomiya University Faculty of Agriculture, <sup>2</sup> Eqpic Riding Club

**PO-01-73 Aptitudes of Ashitaba (Angelica Keiskei Koidzumi) Supplementation on the physiological responses in lactating Holstein-Friesian cows**

Kobra HEMMATY<sup>1</sup>, Shoichiro SUZUKI<sup>1</sup>, Soichi ISHIDA<sup>2</sup>, Yoshitaka WACHI<sup>3</sup>, Tomonari YAMAMOTO<sup>4</sup>, Yoshie AKIBA<sup>4</sup>, Hiroshi HIKI<sup>4</sup>, Hitoshi MIYAZAKI<sup>5</sup>, Atsushi ASANO<sup>4,5</sup>, Naoto ISHIKAWA<sup>4,5</sup>, Atsushi TAJIMA<sup>4,5</sup>  
<sup>1</sup> Graduate School of Life and Environmental Sciences, University of Tsukuba, Japan (Equal contribution),  
<sup>2</sup> Snow Brand Seed Co.Ltd. Japan,  
<sup>3</sup> Nougakuken Center Co.,Ltd. Japan,  
<sup>4</sup> Agriculture and Forestry Research Center, University of Tsukuba, Japan,  
<sup>5</sup> Faculty of Life and Environmental Science, University of Tsukuba, Japan

**PO-01-74 Two relaxin family peptides, RLN and INSL3 in porcine follicular fluid are involved in sperm fertility via their receptor signaling**

Yoko Murata<sup>1</sup>, Itaru Minagawa<sup>1,2</sup>, Ali Mohammad Pitia<sup>1,2</sup>, Hiroyuki Sukigara<sup>1</sup>, Masatoshi Shibata<sup>3</sup>, Hiroshi Sasada<sup>4</sup>, Kazuyoshi Hashizume<sup>5</sup>, Tetsuya Kohsaka<sup>1,2</sup>

<sup>1</sup>Laboratory of Animal Reproduction and Physiology, Faculty of Agriculture, Shizuoka University, Japan,

<sup>2</sup>Division of Animal Resource Production, The United Graduate school of Agricultural Science, Gifu University, Japan,

<sup>3</sup>Shizuoka Swine and Poultry Experimental Station, Japan,

<sup>4</sup>Laboratory of Animal Reproduction, School of Veterinary Medicine, Kitasato University, Japan,

<sup>5</sup>Laboratory of Veterinary Physiology, Faculty of Agriculture, Iwate University, Japan

**PO-01-75 Rapid Identification of 4 Enterococcus Species using PCR Based on Genome Comparison.**

Jongbin Park<sup>1</sup>, Gwi-Deuk Jin<sup>2</sup>, Jae In Pak<sup>2,3</sup>, Eun Bae Kim<sup>2,3</sup>

<sup>1</sup>Department of Animal Life System, College of Animal Life Sciences, Kangwon National University,

<sup>2</sup>Department of Animal Life Sciences, College of Animal Life Sciences, Kangwon National University,

<sup>3</sup>Division of Applied Animal Science, College of Animal Life Sciences, Kangwon National University

**PO-01-76 Effect of dissolved air flotation on dairy wastewater treatment by laboratory and pilot plant experiments**

Min-Chien Cheng<sup>1,2</sup>, Mei-Ping Cheng<sup>1</sup>, Ting-Hsun Hsiao<sup>1,2</sup>, Tein-Ming Su<sup>1</sup>, Tzong-Faa Shiao<sup>2</sup>, Hsin-I Chiang<sup>2</sup>

<sup>1</sup>Livestock Research Institute, Taiwan, <sup>2</sup>Chung Hsing University, Taiwan

**PO-01-77 Application of lactic acid bacteria bacteriocins to the antibacterial of antibiotic-resistant bacteria**

Junichi Ishikawa<sup>1,2</sup>, Hideki Kinoshita<sup>3</sup>, Mai Jumonji<sup>1</sup>, Moe Hariu<sup>1</sup>, Ayuko Yoshida<sup>1</sup>, Ken Watanabe<sup>1</sup>, Kohei Watanabe<sup>1</sup>, Naomi Sasaki<sup>1</sup>, Hisahiro Nakai<sup>1</sup>, Toshikazu Komoda<sup>1</sup>, Yoshihito Suda<sup>1</sup>, Mitsuharu Ishida<sup>1</sup>

<sup>1</sup>Miyagi University School of Food, Agricultural and Environmental Sciences, Japan,

<sup>2</sup>Industrial Technology Institute, Japan, <sup>3</sup>Tokai University School of Agriculture, Japan

**PO-01-78 Effects of S-doped TiO2 photocatalytic and Mold resistant paints on the presence of ATP in a cattle house**

Orya Rafiullah<sup>1,2</sup>, Nobuo Saito<sup>2</sup>, Shoko Tabata<sup>1</sup>, Nassary Nooragha<sup>1</sup>, Yuki Nakagawa<sup>1</sup>, Genki Ishigaki<sup>1</sup>, Kiiichi Fukuyama<sup>1</sup>, Ikuo Kobayashi<sup>1</sup>

<sup>1</sup>Sumiyoshi Livestock Science Station, University of Miyazaki, <sup>2</sup>Nishii Co. Ltd.

**PO-01-79 Estimation of genetic parameters of swine population under selection**

HyunSeong Kim, SeongJu Jeon, Jisu Lee, Umanthi Ranaraja, ChangHee Do

Div. of Animal and Dairy Science, Chungnam National University, Korea

**PO-01-80 Post-transcriptional Gene Silencing (PTGS) of PRRS Virus in MARC-145 Cells by Small Interfering RNA (siRNA) Targeting ORF7 gene Region**

Patipan Jaipeng, Jamlong Mitchaothai, Kornkamon Paditporn, Pongsiwa Sotthibandhu, Danai Sangthong

Faculty of Veterinary Medicine, Mahanakorn University of Technology, Thailand

**PO-01-81 Availability of Lactobacillus salivarius strain isolated from piglet feces as probiotic uses**

Gwi-Deuk Jin<sup>1</sup>, Jongbin Park<sup>2</sup>, EunBae Kim<sup>1</sup>

<sup>1</sup>Department of Animal Life Sciences, Kangwon National University,

<sup>2</sup>Department of Animal Life System, College of Animal Life Sciences

## Poster Session 02

Tuesday, 23 August 13:00-15:00 Room Circle Hall

- PO-02-1 Assessing the methanogenesis of golden needle mushroom (*Flammulina velutipes*) cultivation residue silage with Bermuda hay on rumen fermentation in vitro**  
 Yi-Wen Chiu, K.Teepalak Rangubhet, Syuan Wang, Hsin-I Chiang  
 Department of Animal Science, National Chung Hsing University, Taiwan
- PO-02-2 Metagenomic profiles of the rumen microbiota during transition period in low- and high-yield dairy cows**  
 Ahmad Sofyan<sup>1</sup>, Yutaka Uyeno<sup>2</sup>, Takumi Shinkai<sup>3</sup>, Makoto Hirako<sup>3</sup>, Shiro Kushibiki<sup>3</sup>, Makoto Mitsumori<sup>1,3</sup>  
<sup>1</sup> Graduate School of Life and Environmental Sciences, University of Tsukuba,  
<sup>2</sup> Faculty of Agriculture, Shinshu University,  
<sup>3</sup> Institute of Livestock and Grassland Science, National Agriculture and Food Research Organization
- PO-02-3 Effect of feeding soybean meal protected with mangosteen peel liquid on lactating dairy cows**  
 Kampanat Phesatcha  
 Khon Kaen University
- PO-02-4 Effect of the fast on leptin secretion of saliva in sheep**  
 Hideaki Hayashi, Asaka Eguchi, Midori Noya  
 Rakuno Gakuen University School of Veterinary Medicine
- PO-02-5 Effects of adding lactic acid bacteria or formic acid on functional component in ensiled Italian ryegrass with different fertilizer levels**  
 Renlong Lv, Hoang Lam Dang, Taketo Obitsu, Toshihisa Sugino, Yuzo Kurokawa  
 Graduate School of Biosphere Science, Hiroshima University
- PO-02-6 Changes of Oxidative Statuses on Multiparous Dairy Cows in Transition Period**  
 Reshalaitihan Maimaiti<sup>1</sup>, Wynn Syaw<sup>2</sup>, Teramura Makoto<sup>1</sup>, Hasiyati Tuoxunjiang<sup>3</sup>, Sato Tadashi<sup>3</sup>, Hanada Masaaki<sup>3</sup>  
<sup>1</sup> United Graduate School of Agricultural Science, Iwate University,  
<sup>2</sup> LBVD International Planning Section, Ministry of Livestock, Fisheries and Rural Development,  
<sup>3</sup> Departments of Life Science and Agriculture, Obihiro University of Agriculture and Veterinary Medicine
- PO-02-7 Microbiota of dairy cow feces collected at various regions in the South of Vietnam**  
 Thi Minh Tu Tran<sup>1</sup>, Hoang Diep Tran<sup>2</sup>, Phi Truong Nguyen<sup>3</sup>, Naoki Nishino<sup>1</sup>  
 Graduate School of Environmental and Life Science, Okayama University, Japan
- PO-02-8 Forage quality of year-round cropping system combining triple-maize crops with winter barley in Kyushu, Japan**  
 Yingkui Yang<sup>1,3</sup>, Bo Kun Li<sup>2</sup>, Sachiko Idota<sup>3</sup>, Yasuyuki Ishii<sup>3</sup>  
<sup>1</sup> Interdisciplinary Graduate School of Agriculture and Engineering,  
<sup>2</sup> Graduate School of Agriculture, University of Miyazaki, Japan,  
<sup>3</sup> Faculty of Agriculture, University of Miyazaki, Japan
- PO-02-9 Effects of feeding yuzu peel in Japanese Brown Cattle-Kochi under heat stress**  
 Yukiko Iwamoto<sup>1</sup>, Akane Iwasa<sup>1</sup>, Yu Takenaka<sup>1</sup>, Mitsuharu Urabe<sup>1</sup>, Yasuo Takemura<sup>1</sup>, Shuji Sakamoto<sup>2</sup>, Takuma Higuchi<sup>2</sup>, Katsuji Morioka<sup>1</sup>, Kazumasa Kakibuchi<sup>3</sup>, Yutaka Ishida<sup>3</sup>, Kazutsugu Matsukawa<sup>1</sup>  
<sup>1</sup> Faculty of Agriculture and Marine Science, Kochi University,  
<sup>2</sup> Science Research Center, Kochi Medical School, Kochi University, <sup>3</sup> Shikoku Research Institute Inc.
- PO-02-10 Fattening of Upgraded Goats Fed with Total Mixed Ration**  
 Phoebe Lyndia Llantada, Gerry Pilien, Rosalina Lapitan, Arnel Del Barrio, Tsutomu Fujihara, Daniel Aquino  
 Philippine Carabao Center

**PO-02-11 Wistin is a PPAR  $\gamma$  agonist that stimulates adipocyte differentiation**

Fumiya Nakamura<sup>1</sup>, Matoki Sanada<sup>1</sup>, Ryuichi Hayashi<sup>1</sup>, Yoshimasa Imai<sup>1</sup>, Tomoyo Inoue<sup>1</sup>, Shinji Ohta<sup>2</sup>, Hiroyuki Kawachi<sup>1</sup>

<sup>1</sup>Nagahama Institute for Bioscience and Technology, <sup>2</sup>Hiroshima University

**PO-02-12 Fractionation and identification of 5-nonadecylresorcinol as an agonist of PPAR  $\gamma$  in soy sauce oil**

Yoshimasa Imai<sup>1</sup>, Yoshihiro Yamada<sup>1</sup>, Matoki Sanada<sup>1</sup>, Fumiya Nakamura<sup>1</sup>, Tomoki Hayashi<sup>1</sup>, Shinji Ohta<sup>2</sup>, Hiroyuki Kawachi<sup>1</sup>

<sup>1</sup>Nagahama Institute for Bioscience and Technology, <sup>2</sup>Hiroshima University

**PO-02-13 Amino acid supplementation to diet stimulates proglucagon mRNA expression in L cells of the chicken small intestine.**

Kei Nishimura<sup>1</sup>, Kohzy Hiramatsu<sup>2</sup>, Takafumi Watanabe<sup>2</sup>, Ryosuke Makino<sup>3</sup>, Naoko Sasaki<sup>3</sup>, Kazumi Kita<sup>3</sup>

<sup>1</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University,

<sup>2</sup>Faculty of Agriculture, Shinshu University, <sup>3</sup>Faculty of Agriculture, Iwate University

**PO-02-14 The unfolded protein response is required for cellular differentiation during mammary gland development**

Megumi Tsuchiya<sup>1</sup>, Yumiko Koizumi<sup>1</sup>, Yukako Tokutake<sup>2</sup>, Miwa Nakano<sup>3</sup>, Makoto Miyaji<sup>3</sup>, Hiroshi Ishizaki<sup>3</sup>, Satoshi Haga<sup>3</sup>, Shinichi Yonekura<sup>1,2,4</sup>

<sup>1</sup>Graduate school of Agriculture, Shinshu University,

<sup>2</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University,

<sup>3</sup>National Agriculture and Food Research Organization (NARO),

<sup>4</sup>Institute for Biomedical Sciences, Shinshu University

**PO-02-15 ACUTE TOXICITY AND CYTOTOXICITY OF NANO-MANURES**

Ming Jyun Wang, Shuen Ei Chen

Department of Animal Science, National Chung Hsing University

**PO-02-16 Intestinal absorption of nutrients varies with growth in broiler chickens.**

Mikako Shibata<sup>1</sup>, takaharu Kozakai<sup>2</sup>, Yoshiyuki Azuma<sup>1</sup>, Yohei Kurose<sup>1</sup>, Tatsuyuki Takahashi<sup>1</sup>

<sup>1</sup>Kitasato University School of Veterinary Medicine,

<sup>2</sup>Faculty of Education, Art and Science Yamagata University

**PO-02-17 Effects of heat-treated soybean meal supplementation on blood urea nitrogen and hematological values in dairy cows**

Bang-on Bamrungphong, Pakanit Kupittayanant

School of Animal Production Technology, Institute of Agricultural Technology, Suranaree University of Technology, Thailand

**PO-02-18 Morphogenesis of the curly tail feathers in mallard (*Anas platyrhynchos*)**

Wei-Chih Lin, Chih-Feng Chen, Pin-Chi Tang

Department of Animal Science, National Chung Hsing University

**PO-02-19 Characterization of somitogenesis during the first 3 days of embryonic development in Brown Tsaiya ducks (*Anas platyrhynchos*)**

Chompunut Lumsangkul<sup>1</sup>, Yang- Kuang Fan<sup>1</sup>, Jyh-Cherng Ju<sup>1,2,3,4</sup>, Hsin-I Chiang<sup>1</sup>

<sup>1</sup>Department of Animal Science, National Chung Hsing University,

<sup>2</sup>Graduate Institute of Basic Medical Science, China Medical University,

<sup>3</sup>Medical Research Department, China Medical University Hospital,

<sup>4</sup>Department of Bioinformatics and Medical Engineering, Asia University

**PO-02-20 Effect of early nutrition on growth, organ development and TNF-  $\alpha$  response to lipopolysaccharide challenge in mice**

Ataru Kimura<sup>1</sup>, Hiroyuki Suzuki<sup>2</sup>, Masatoshi Matsuzaki<sup>2</sup>

<sup>1</sup>United Graduate School of Agricultural Sciences, Iwate University,

<sup>2</sup>Faculty of Agriculture and Life Science, Hirosaki University

**PO-02-21 Protein degradation by autophagy during postmortem storage of mouse skeletal muscle**

Miho Yamashita<sup>1</sup>, Satoshi Kawahara<sup>2</sup>, Tetsuo Morita<sup>3</sup>, Shogo Kaminaka<sup>1</sup>, Yoichi Sakakibara<sup>2</sup>, Tomonori Nakanishi<sup>2</sup>

<sup>1</sup> Graduate School of Agriculture, University of Miyazaki,

<sup>2</sup> Department of Biochemistry and Applied Biosciences, Faculty of Agriculture, University of Miyazaki,

<sup>3</sup> Department of Animal and Grassland Sciences, Faculty of Agriculture, University of Miyazaki

**PO-02-22 Restrain stress during pregnancy alters plasma amino acid composition and affects the growth and behavior of offspring in mice**

Takuma Nishigawa<sup>1</sup>, Mayumi Takakura<sup>1</sup>, Satsuki Nagamachi<sup>1</sup>, Vishwajit S Chowdhury<sup>2</sup>, Shinobu Yasuo<sup>1</sup>, Mitsuhiro Furuse<sup>1</sup>

<sup>1</sup> Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,

<sup>2</sup> Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University

**PO-02-23 Interaction of STAT3 and STAT5 in the leptin signal transduction**

Shoko Namekawa<sup>1</sup>, Daisuke Murase<sup>2</sup>, Takeshi Ohkubo<sup>1,2</sup>

<sup>1</sup> Graduate School of Agriculture, Ibaraki University,

<sup>2</sup> United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology

**PO-02-24 Role for semaphorin 3A in regulation of myogenic stem cells proliferation**

Mulan Qahar, Wataru Mizunoya, Ryuichi Tatsumi, Mako Nakamura

Kyushu University Graduate School of Agriculture

**PO-02-25 Folliculo-stellate cells produce a basal lamina component in the chicken adenohypophysis**

Miyu Yamashita<sup>1</sup>, Shotaro Nishimura<sup>2</sup>, Takane Kaneko<sup>2</sup>, Fuminori Kawabata<sup>2</sup>, Shoji Tabata<sup>2</sup>

<sup>1</sup> Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University,

<sup>2</sup> Faculty of Agriculture, Kyushu University

**PO-02-26 Immunohistochemical analysis of the estrogen receptor and Ki-67 antigen in the ovine mammary gland during pregnancy**

Asuka Hara<sup>1,2</sup>, Tomoyuki Abe<sup>3</sup>, Borjigin Sarantonglaga<sup>2</sup>, Kazuko Ogata<sup>2,4</sup>, Mio Yamaguchi<sup>1,2</sup>, Akane Sato<sup>1,2</sup>, Rika Fukumori<sup>1,2</sup>, Yoshikazu Nagano<sup>1,2</sup>

<sup>1</sup> Department of Animal Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan,

<sup>2</sup> University Farm, Faculty of Agriculture, Utsunomiya University, Japan,

<sup>3</sup> Division of Regenerative Medicine, Center for Molecular Medicine, Jichi Medical University, Japan,

<sup>4</sup> Collaboration Center for Research and Development of Utsunomiya University, Japan

**PO-02-27 Exposure to glyphosate induces oxidative stress and lipid peroxidation in adult male rat**

Juan Tang, Yansen Li, Chunmei Li

Nanjing Agricultural University

**PO-02-28 Leucine Administration Increases MicroRNA-133a Expression via mTOR Pathway in Skeletal Muscle**

Yoriko Sato<sup>1</sup>, Yusuke Sato<sup>2</sup>, Fumiaki Yoshizawa<sup>1,2</sup>

<sup>1</sup> Tokyo University of Agriculture and Technology, <sup>2</sup> Utsunomiya University

**PO-02-29 Time-course of changes in muscle antioxidant peptide concentrations in heat-stressed broiler chickens**

Kyohei Furukawa<sup>1</sup>, Natsumi Waki<sup>1</sup>, Motoi Kikusato<sup>1</sup>, Akane Ashihara<sup>2</sup>, Aiko Ishida<sup>2</sup>, Kazuki Nakashima<sup>2</sup>, Masaaki Toyomizu<sup>1</sup>

<sup>1</sup> Animal Nutrition, Life Sciences, Graduate School of Agricultural Science, Tohoku University,

<sup>2</sup> Animal Physiology and Nutrition Division, NARO Institute of Livestock and Grassland Science

**PO-02-30 Effect of chemerin to proliferation and fat accumulation on sheep stromal vascular cell**

Kei Matsuno<sup>1,2</sup>, Takuya Matsumoto<sup>1</sup>, Toshiyoshi Ichinohe<sup>1</sup>, Sang-Houn Song<sup>1</sup>

<sup>1</sup> Faculty of Life and Environmental Science, Shimane University, Japan,

<sup>2</sup> The United Graduate School of Agricultural Sciences, Tottori University, Japan

**PO-02-31 Effect of short wavelength light on GLP-1 secretion in calves**

Mamiko Mon<sup>1</sup>, Toshihisa Sugino<sup>1</sup>, Mabrouk Elsabagh<sup>1,2</sup>, Akiko Shinoda<sup>3</sup>, Takashi Watanabe<sup>3</sup>,  
Shiro Kushibiki<sup>4</sup>, Taketo Obitsu<sup>1</sup>

<sup>1</sup> Graduate School of Biosphere Science, Hiroshima University, Japan,

<sup>2</sup> Department of Nutrition and Clinical Nutrition, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt,

<sup>3</sup> Showa Denko K. K., Japan,

<sup>4</sup> National Institute of Livestock and Grassland Science, Japan

**PO-02-32 Myogenic differentiation of ovine stromal vascular cells**

Takuya Matsumoto<sup>1</sup>, Kei Matsuno<sup>1,2</sup>, Toshiyoshi Ichinohe<sup>1</sup>, Sang-Houn Song<sup>1</sup>

<sup>1</sup> Faculty of Life and Environmental Science, Shimane University, Japan,

<sup>2</sup> The United Graduate School of Agricultural Sciences, Tottori University, Japan

**PO-02-33 Defining the mitochondrial histochemical characteristics of avian skeletal muscles with different muscle fiber type compositions**

Yuki Hakamata<sup>1</sup>, Motoi Kikusato<sup>1</sup>, Kouichi Watanabe<sup>2</sup>, Taku Amo<sup>3</sup>, Masaaki Toyomizu<sup>1</sup>

<sup>1</sup> Animal Nutrition, Life Sciences, Graduate School of Agricultural Science, Tohoku University,

<sup>2</sup> Animal Functional Morphology, Life Sciences, Graduate School of Agricultural Science, Tohoku University,

<sup>3</sup> Department of Applied Chemistry, National Defense Academy

**PO-02-34 Ceratonia siliqua(carob) ethanol extract demonstrates anti-inflammatory activity in RAW 264.7 murine macrophage cells**

Ji-Young Park, Hee-Woo Kim, Seong-Gu Hwang

Department of Animal Life and Environmental Science, Hankyong National University, Korea

**PO-02-35 Fat metabolic capacity of ruminant-specific type I myofiber subtype**

Yojun Tsuiki, Takatoshi Sato, Tomonori Nochi, Hisashi Aso, Kouichi Watanabe

Functional Morphology, Graduate School of Agricultural Science, Tohoku University

**PO-02-36 Anti-inflammatory effect of Mongolian Oxytropis altaica (pall) pers ethanol extracts in RAW 264.7 murine macrophage cells**

Yoon-Jeong Choi, Jeong-Min Jeon, Delgerzul Baatar, Seong-Gu Hwang

Department of Animal Life and Environmental Science, Hankyong National University, Korea

**PO-02-37 The growth rate of the male peacock feathers in different body regions**

Yen-Cheng Lin, Zong-Ruei Wu, Pin-Chi Tang, Chih-Feng Chen

Department of Animal Science, National Chung Hsing University, Taiwan

**PO-02-38 Effects of agar-added pickling solution on pidan quality**

Chin-Hui Su<sup>1,2</sup>, Chih-Hsiang Cheng<sup>2</sup>, Jung-Hsin Lin<sup>2</sup>, Jeng-Feng Huang<sup>3</sup>, Hsiu-Chou Liu<sup>2</sup>

<sup>1</sup> Department of Biotechnology and Animal Science, National Ilan University,

<sup>2</sup> Ilan Branch, Livestock Research Institute, Council of Agriculture, Executive Yuan,

<sup>3</sup> Livestock Research Institute, Council of Agriculture, Executive Yuan

**PO-02-39 Red mite population: Increase has a direct correlation to a decrease in egg production**

Yuta Imade<sup>1</sup>, Tetsuya Kondo<sup>2</sup>, Yumi Kayahara<sup>3</sup>, Khosyo Yamauchi<sup>4</sup>, Peter Lutes<sup>1</sup>, Yoshiki Matsumoto<sup>1</sup>

<sup>1</sup> Kagawa University, Faculty of Agriculture, <sup>2</sup> Kondo Electric co.ltd.,

<sup>3</sup> Kagawa Prefecture Livestock Experimental Station, <sup>4</sup> Miyazaki Midori Pharms. co.ltd.

**PO-02-40 Survival of lactic acid bacteria isolated from fermented meat products in gastrointestinal tract model**

Jiraroj Nithisantawakhupt, Pussadee Tangwatcharin, Nahathai Vijitrothai

Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand

**PO-02-41 Resistant starch and dietary fiber extracted from by-products of banana processing enhance probiotic viability in fermented sausage model**

Kamonwan Phosut, Pussadee Tangwatcharin, Komkhae Pilasombat, Chunya Kongrith

Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand

**PO-02-42 Quality of Reduced-Fat Thai-fermented Sausage (Isan sausage) Substituted with Konjac Gel**

Sujitta Jansa, Supaluk Sorapukdee

Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand

**PO-02-43 A study on the effect of anti-fatigue by the dripped chicken essence extracted from spent hens**

Ti-Chun Chang, Liang-Chuan Lin

National Chung Hsing University of Animal Science

**PO-02-44 Water-holding Capacity and Tenderness of Pork during Storage Times**

Rachakris Lertpatarakomol<sup>1,2</sup>, Rujarin Limsupavanich<sup>2</sup>, Ronachai Sitthigripong<sup>2</sup>, Chanporn Chaosap<sup>3</sup>, Kamon Chaweewan<sup>4</sup>

<sup>1</sup> Faculty of Veterinary Medicine, Mahanakorn University of Technology,

<sup>2</sup> Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang,

<sup>3</sup> Faculty of Industrial Education, King Mongkut's Institute of Technology Ladkrabang,

<sup>4</sup> Department of Livestock Development, Thailand

**PO-02-45 Effect of chia seed on the quality and antioxidant properties of frozen deboned chicken cutlet**

Ying-Che Huang, Mei-Jen Lin, Ji-Xing Huang, Chung-Shiuan Wu

National Pingtung University of Science and Technology

**PO-02-46 Metabolomics of liver and skeletal muscle in Japanese Brown Cattle-Kochi after feeding yuzu peel**

Akane Iwasa<sup>1</sup>, Yukiko Iwamoto<sup>1</sup>, Yu Takenaka<sup>1</sup>, Mitsuharu Urabe<sup>1</sup>, Yasuo Takemura<sup>1</sup>, Shuji Sakamoto<sup>2</sup>, Takuma Higuchi<sup>2</sup>, Katsuji Morioka<sup>1</sup>, Kazumasa Kakibuchi<sup>3</sup>, Yutaka Ishida<sup>3</sup>, Kazutsugu Matsukawa<sup>1</sup>

<sup>1</sup> Faculty of Agriculture and Marine Science, Kochi University,

<sup>2</sup> Science Research Center, Kochi Medical School, Kochi University, <sup>3</sup> Shikoku Research Institute Inc.

**PO-02-47 GLOVE DETECTOR CAPACITANCE-BASED TIREN CHICKEN MEAT AS CHICKEN MEAT SAFETY SOLUTION IN INDONESIA**

Nasution Syahrizal<sup>1</sup>, Pratiidina Iskandar Rhegy<sup>1</sup>, Adam Alfath Muhammad<sup>2</sup>, Farida Nok<sup>1</sup>, Yusrina Kulsum Anita<sup>3</sup>

<sup>1</sup> Animal Product Technology, Animal husbandry Faculty of Universitas Padjadjaran,

<sup>2</sup> Physics Major, Mathematics and Natural Sciences Faculty of Universitas Padjadjaran,

<sup>3</sup> Chemistry Major, Mathematics and Natural Sciences Faculty of Universitas Padjadjaran

**PO-02-48 Application of ELISA and LC-MS/MS Methods for Ensuring the Food Hygiene and Safety of Pig Production**

Thi Thanh Thao Pham<sup>1,2</sup>, Xuan Trach Nguyen<sup>2</sup>, Kim Dang Pham<sup>2</sup>

<sup>1</sup> University of Dalat, <sup>2</sup> Vietnam National University of Agriculture

**PO-02-49 BEEF TASTE-TRAITS ASSESSED BY AN ELECTRONIC TASTE SENSING SYSTEM**

Yanan Zhao<sup>1</sup>, Masahiro Nishida<sup>1</sup>, Yusuke Nakada<sup>1</sup>, Shuji Ueda<sup>1</sup>, Masaaki Habara<sup>2</sup>, Hidekazu Ikezaki<sup>2</sup>, Minoru Yamanoue<sup>1</sup>

<sup>1</sup> Graduate School of Agricultural Science, Kobe University, Japan, <sup>2</sup> INSENT, Japan

**PO-02-50 EVALUATION OF REDUCING ODOUR PRODUCED BY HENS EXCRETA WITH PROBIOTICS AND PROTEASE**

P. Y. Lee<sup>1,2</sup>

<sup>1</sup>Taiwan Chung Hsing University of Biological Technology, <sup>2</sup>Taiwan Formosa University of Animal Science

**PO-02-51 Effect of Floor Bedding Materials on Egg Production and Behavioral Characteristics of Laying Hens**

Yu Hyun Kang<sup>1</sup>, Han Seo Ko<sup>1</sup>, Jun Yeop Lee<sup>2</sup>, Hyeon Soo Jang<sup>1</sup>, Sang Jip Ohh<sup>1</sup>

<sup>1</sup>Kangwon National University, <sup>2</sup>National Institute of Animal Sciences

**PO-02-52 Effect of Photoperiod during Perinatal Period on Neurogenesis and Stress-Related Behaviors in Mice**

Yusuke Takai<sup>1</sup>, Misato Kawai<sup>1</sup>, Tadashi Ogo<sup>2</sup>, Takashi Ichinose<sup>2</sup>, Shigeki Furuya<sup>2</sup>, Hiroshi Udo<sup>3</sup>, Mitsuhiro Furuse<sup>1</sup>, Shinobu Yasuo<sup>1</sup>

<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,

<sup>2</sup>Division of Systems Biology, Faculty of Agriculture, Kyushu University,

<sup>3</sup>Department of Science, Kyushu University

**PO-02-53 Differences in comfort of dairy cows in three different commercial tied-stall herds in Japan**

Chisato Minagawa<sup>1</sup>, Mizuki Fukushima<sup>2</sup>, Wakana Takahashi<sup>1</sup>, Chikako Yoshida<sup>3</sup>

<sup>1</sup>Graduate School of Science and Technology, Niigata University,

<sup>2</sup>Faculty of Agriculture, Niigata University,

<sup>3</sup>Field Center for Sustainable Agriculture and Forestry, Niigata University

**PO-02-54 Lower locomotor activity is partially explained by brain dopamine metabolism in mice**

Takeshi Yamaguchi<sup>1</sup>, Hiromi Ikeda<sup>1</sup>, Kimie Minaminaka<sup>1</sup>, Momoko Kodaira<sup>1</sup>, Vishwajit Sur Chowdhury<sup>2</sup>, Shinobu Yasuo<sup>1</sup>, Mitsuhiro Furuse<sup>1</sup>

<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University, Japan,

<sup>2</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan

**PO-02-55 EFFECTS OF AGE AND POLYMORPHISM OF MONOAMINE OXIDASE A ON PLAY BEHAVIOR OF JAPANESE BLACK CALVES**

Sarengaowa Aierqing, Akiko Nakagawa, Miki Okita, Natsuki Fukano, Takao Oka, Takashi Bungo

Hiroshima University

**PO-02-56 Discrimination of four kinds of figures in wild boar**

Kenta Sakakura<sup>1</sup>, Yusuke Eguchi<sup>1,2</sup>, Soichiro Doyama<sup>2</sup>, Hironori Ueda<sup>2</sup>, Katsuji Uetake<sup>1</sup>, Toshio Tanaka<sup>1</sup>

<sup>1</sup>Azabu University School of Veterinary Medicine,

<sup>2</sup>NARO Western Region Agricultural Research Center

**PO-02-57 ASSOCIATION BETWEEN BEHAVIORAL TRAITS AND POLYMORPHISMS OF MONOAMINE-RELATED GENE IN DAIRY COWS**

Akiko Nakagawa, Miki Okita, Sarengaowa Aierqing, Natsuki Fukano, Takao Oka, Takashi Bungo

Hiroshima University

**PO-02-58 Relationships between social rank and behavioral and physical parameters in a dairy herd**

Shinya Yoshizaki, Ayana Kusumegi, Yuki Nakagawa, Nassary Nooragha, Orya Rafiullah, Hiromichi Tsuruhara, Koichiro Hemmi, Yasuhiro Udatsu, Genki Ishigaki, Kiichi Fukuyama, Ikuo Kobayashi

Sumiyoshi Livestock Science Station, University of Miyazaki

**PO-02-59 Effect of cow brush on the Hair cortisol and basic behavior of the fattening Hanwoo steers**

Ka young Yang<sup>1</sup>, Gie Won Kim<sup>1</sup>, Jae Jung Ha<sup>2</sup>, Yong Han Song<sup>1</sup>

<sup>1</sup>College of Animal Life Science, Kangwon National University, <sup>2</sup>Gyeongsangbuk-do Livestock Reserch Institute

**PO-02-60 Differential protein expression in the serum of red-feathered Taiwan country chickens with foot pad dermatitis using iTRAQ analysis**

Shi-Ying Lin<sup>1</sup>, Yen-Pai Lee<sup>1</sup>, Chi-Feng Chen<sup>1,2,3</sup>, Chao-Jung Chen<sup>4,5</sup>, San-Yuan Huang<sup>1,2,3,6</sup>

<sup>1</sup> Department of Animal Science, National Chung Hsing University,

<sup>2</sup> Agricultural Biotechnology Center, National Chung Hsing University,

<sup>3</sup> Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University,

<sup>4</sup> Proteomics Core Laboratory, Department of Medical Research, China Medical University Hospital,

<sup>5</sup> Graduate Institute of Integrated Medicine, China Medical University,

<sup>6</sup> Center of Nanoscience and Nanotechnology, National Chung Hsing University

**PO-02-61 EFFECTS OF EXERCISE ON THE HAEMATOLOGY PARAMETERS OF PONY**

Yi-Hsin Liu, Hsiu-Luan Chang

National Pingtung University of Science and Technology

**PO-02-62 Relationship between heat stress and heart rate variability in sheep and goats**

Kaho Kitajima, Kazato Oishi, Masafumi Miwa, Hiroki Anzai, Akira Setoguchi, Hajime Kumagai, Hiroyuki Hirooka

Graduate School of Agriculture, Kyoto University

**PO-02-63 The association between productivity and housing and management practices related with animal welfare in beef fattening**

Yuta Sonoda<sup>1</sup>, Kazato Oishi<sup>1</sup>, Hajime Kumagai<sup>1</sup>, Yoshikazu Aoki<sup>2</sup>, Hiroyuki Hirooka<sup>1</sup>

<sup>1</sup> Graduate School of Agriculture, Kyoto University, <sup>2</sup> Shiga Prefectural Livestock Technology Promotion Center

**PO-02-64 FOOD SAFETY FROM FARM TO TABLE IN VIETNAM**

THI MINH NGUYEN<sup>1</sup>, Thi Minh Thu Pham<sup>2</sup>, Martine Boulianne<sup>3</sup>

<sup>1</sup> Animal Husbandry Association of Vietnam (AHAV), <sup>2</sup> National Institute of Animal Science (NIAS), Vietnam,

<sup>3</sup> Faculty of Veterinary Medicine, University of Montreal, Canada

**PO-02-65 The effect of various management strategies upon milk 25-hydroxyvitamin D concentration and milk composition in dairy cows**

Mio Yamaguchi<sup>1,2</sup>, Sarentonglaga Borjigin<sup>2</sup>, Kazuko Ogata<sup>2,3</sup>, Asuka Hara<sup>1,2</sup>, Akane Sato<sup>1,2</sup>, Rika Fukumori<sup>1,2</sup>, Nagao Yoshikazu<sup>1,2</sup>

<sup>1</sup> Department of Animal Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan,

<sup>2</sup> University Farm, Department of Agriculture, Utsunomiya University, Japan,

<sup>3</sup> Collaboration Center for Research and Development, Utsunomiya University, Japan

**PO-02-66 Effects of heat reflective roof coating on the productivity in Japanese Black cattle and air temperature in a cattle house**

Nassary Nooragha<sup>1</sup>, Ryuusuke Kawamura<sup>2</sup>, Hideaki Murakoso<sup>3</sup>, Hidenori Ogihara<sup>3</sup>, Ruriko Kimura<sup>1</sup>, Orya Rafiullah<sup>1</sup>, Yuki Nakagawa<sup>1</sup>, Yuusei Yamashita<sup>1</sup>, Koichiro Hemmi<sup>1</sup>, Genki Ishigaki<sup>1</sup>, Kiichi Fukuyama<sup>1</sup>, Ikuro Kobayashi<sup>1</sup>

<sup>1</sup> Sumiyoshi Livestock Science Station, University of Miyazaki,

<sup>2</sup> Department of Mechanical Systems Engineering, University of Miyazaki, <sup>3</sup> Miyabo Co. Ltd.

**PO-02-67 Determination of the growth performance of five strains of male crossbred Korean domestic chickens for 42-day post hatching**

Shin Taeg Kyun, Samiru Sudharaka Wickramasuriya, Eunjoo Kim, Hyun Min Cho, Hyunmin Lee, Jaehong Yoo, Jung Min Heo

Chungnam National University

**PO-02-68 Effect of five crossbred strains on growth performance of Korean domestic chickens from week 8 to week 12**

Hyun Min Cho, Samiru Sudharaka Wickramasuriya, Taeg Kyun Shin, Eunjoo Kim, Soo Kee Lee, Jung Min Heo

Chungnam National University

**PO-02-69 Monitoring poultry red mite (*Dermanyssus gallinae*) in a poultry house to prevent blood-stained eggs using a non-parallel board trap**

Makiko Odaka<sup>1</sup>, Kazumasa Ogino<sup>2</sup>, Kenichi Asada<sup>1</sup>, Syoujirou Kasa<sup>1</sup>, Michitaka Shikada<sup>3</sup>, Takahiro Inoue<sup>4</sup>, Ken Maeda<sup>5</sup>

<sup>1</sup>Fukuoka Agriculture and Forestry Research Center, <sup>2</sup>University of Occupational and Environmental Health,

<sup>3</sup>Fukuoka Prefectural Yame Agricultural High School, <sup>4</sup>Fukuoka Prefectural Fukuoka Agricultural High School,

<sup>5</sup>Yamaguchi University

**PO-02-70 Gene regulation of small yellow follicles in response to acute heat stress in L2 strain Taiwan country chickens**

Chuen-Yu Cheng<sup>1</sup>, Wei-Lin Tu<sup>1</sup>, Chih-Feng Chen<sup>1,2,3</sup>, Hsin-Hsin Chen<sup>1</sup>, Pin-Chi Tang<sup>1,2,3</sup>, Yen-Pai Lee<sup>1</sup>, Shuen-Ei Chen<sup>1,2,3</sup>, San-Yuan Huang<sup>1,2,3,4</sup>

<sup>1</sup>Department of Animal Science, National Chung Hsing University, Taiwan,

<sup>2</sup>Agricultural Biotechnology Center, National Chung Hsing University, Taiwan,

<sup>3</sup>Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University, Taiwan,

<sup>4</sup>Research Center for Sustainable Energy and Nanotechnology, National Chung Hsing University, Taiwan

**PO-02-71 Acute heat stress changes protein expression of hypothalamus in a boiler-type B strain Taiwan country chicken**

Wei-Lin Tu<sup>1</sup>, Chuen-Yu Cheng<sup>1</sup>, Chao-Jung Chen<sup>2,3</sup>, Hong-Lin Chan<sup>4,5</sup>, Chih-Feng Chen<sup>1,6,7</sup>, Hsin-Hsin Chen<sup>1</sup>, Pin-Chi Tang<sup>1,6,7</sup>, Yen-Pai Lee<sup>1</sup>, Shuen-Ei Chen<sup>1,6,7</sup>, San-Yuan Huang<sup>1,6,7,8</sup>

<sup>1</sup>Department of Animal Science, National Chung Hsing University, Taiwan,

<sup>2</sup>Proteomics Core Laboratory, Department of Medical Research, China Medical University Hospital, Taiwan,

<sup>3</sup>Graduate Institute of Integrated Medicine, China Medical University, Taiwan,

<sup>4</sup>Institute of Bioinformatics and Structural Biology, National Tsing Hua University, Taiwan,

<sup>5</sup>Department of Medical Sciences, National Tsing Hua University, Taiwan,

<sup>6</sup>Agricultural Biotechnology Center, National Chung Hsing University, Taiwan,

<sup>7</sup>Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University, Taiwan,

<sup>8</sup>Research Center for Sustainable Energy and Nanotechnology, National Chung Hsing University, Taiwan

**PO-02-72 Establishment of a chicken embryonic stem cell line from stage X chicken embryos**

Hsiao-Yun Kuo<sup>1,2</sup>, Wei-Jun Yang<sup>1</sup>, Lih-Ren Chen<sup>1</sup>, Yow-Ling Shiue<sup>2</sup>

<sup>1</sup>Livestock Research Institute, Taiwan,

<sup>2</sup>Institute of Biomedical Sciences, National Sun Yat-sen University, Taiwan

**PO-02-73 Palm kernel expeller and its extract modify caecal microbial population of broiler chickens differently**

Wei Li Chen, Shirley Gee Hoon Tang, Mohammad Fasaleh Jahromi, Idrus Zulkifli, Juan Boo Liang

Institute of Tropical Agriculture, Universiti Putra Malaysia

**PO-02-74 DETECTION OF THE CONNECTIN/TITIN 20-kDa FRAGMENT INCREASED IN CHICKEN SARCOPLASM DURING POSTMORTEM AGING**

Azusa Naka, Masaya Maruyama, Minami Nakama, Shuji Ueda, Minoru Yamanoue

Laboratory of Chemistry and Utilization of Animal Products, Graduate School of Agricultural Science, Kobe University, Japan

**PO-02-75 Difference between a myofibrillar protein paratropomyosin and tropomyosin based on their primary structure**

Yuriko Nishio<sup>1</sup>, Yuichi Ushimura<sup>1</sup>, Shiji Ueda<sup>1</sup>, Naoyuki Maeda<sup>2</sup>, Akihito Hattori<sup>3</sup>, Minoru Yamanoue<sup>1</sup>

<sup>1</sup>Laboratory of Chemistry and Utilization of Animal Products, Graduate School of Agricultural Science, Kobe University, Japan,

<sup>2</sup>Safety Research Institute for Chemical compounds Co., LTD, Japan,

<sup>3</sup>Japan Meat Science and Technology Institute, Japan

**PO-02-76 Effects of calf growth on recovery of reproductive function, body weight and blood parameters in postpartum Japanese Black cows**

Miyu Nakatake, Koichiro Hemmi, Yuki Iwashita, Yuki Nakagawa, Genki Ishigaki, Ikuo Kobayashi, Kichi Fukuyama

Sumiyoshi Livestock Science Station, University of Miyazaki

**PO-02-77 Profiling of differential expression of microRNAs in serum of heat-stressed cattle and bioinformatic analyses of the target genes.**

Yue Zheng, Peishi Yan, Hui-xia Li

Nanjing Agriculture University

**PO-02-78 Effect of potential probiotics on alleviating chronic kidney disease progression using cisplatin-induced Lanyu porcine model**

Pin-Jhu Wang<sup>1</sup>, Chen- Yu Fang<sup>2</sup>, Ming-Ju Chen<sup>1</sup>

<sup>1</sup> Department of Animal Science and Technology, National Taiwan University,

<sup>2</sup> Conmed Pharmaceutical & Bio-Medical Corporation

**PO-02-79 Antiviral activities of intestinal probiotics**

Hsiu-Han Hsu<sup>1</sup>, Je-Ruei Liu<sup>2</sup>

<sup>1</sup> National Taiwan University of Animal Science, <sup>2</sup> National Taiwan University of Institute of Biotechnology

**PO-02-80 Influence of *Lactobacillus rhamnosus* GG on modulation of gut microbiota, leptin sensitivity and energy metabolism in diet-induced obesity mice**

Yu-Chieh Cheng<sup>1</sup>, Je-Ruei Liu<sup>1,2</sup>

<sup>1</sup> Department of Animal Science and Technology, National Taiwan University,

<sup>2</sup> Institute of Biotechnology, National Taiwan University

**PO-02-81 A Whole Genome Association Analysis for serum and milk  $\beta$ -hydroxybutyric acid and milk acetone in Holstein cows**

Jisu Lee<sup>1</sup>, ChangHee Do<sup>1</sup>, Umanthi Ranaraja<sup>1</sup>, Taejung Choi<sup>2</sup>, Sidong Kim<sup>2</sup>, KwangHyun Cho<sup>2</sup>

<sup>1</sup> Div. of Animal and Dairy Science, Chungnam National University, Korea,

<sup>2</sup> National Institute of Animal Science, RDA, Korea

**Poster Session 03**

Tuesday, 23 August 17:00-19:00 Room Circle Hall

**PO-03-1 Genetic Diversity of Swamp Buffalo in Uttaradit Province, Thailand**

Siriwadee Phromnoi<sup>1</sup>, Somkiat Dontongdang<sup>2</sup>

Faculty of Science and Technology. Uttaradit Rajabhat University, Thailand

**PO-03-2 Evaluation of genetic diversity using pedigree information and microsatellite markers in a synthetic pig strain**

Kenichi Nagai<sup>1</sup>, Gaku Tahara<sup>1</sup>, Isao Hyodo<sup>2</sup>, Sadao Kojima<sup>2</sup>, Hisashi Usugi<sup>2</sup>, Koh Nomura<sup>1</sup>, Yukimizu Takahashi<sup>1</sup>, Eiji Kobayashi<sup>1,3</sup>, Tsutomu Furukawa<sup>1</sup>

<sup>1</sup> Graduate School of Agriculture, Tokyo University of Agriculture,

<sup>2</sup> Ome Center for Animal Husbandry, Tokyo Development Foundation for Agriculture, Forestry, and Fisheries,

<sup>3</sup> National Institute of Livestock and Grassland Science, NARO

**PO-03-3 Current Situations and Diversity of Traditional and Wisdom of Thai Indigenous Chickens Raising in Phitsanulok Province.**

Punnaree Rattanapradit<sup>1</sup>, Suphawadee Yaemkong<sup>1</sup>, Norakamol Laorodphan<sup>1</sup>, Prapasiri Jaipong<sup>1</sup>, Rangsun Charoensook<sup>2</sup>, Tossaporn Incharoen<sup>2</sup>, Sonthaya Numthuum<sup>2</sup>, Nawannaporn Chirarat<sup>3</sup>, Usaneeporn Soipeth<sup>3</sup>

<sup>1</sup> Pibulsongkram Rajabhat University, <sup>2</sup> Naresuan University,

<sup>3</sup> Rajamangala University of Technology Lanna Phitsanulok

- PO-03-4 Phenotypic Characterization of Native Chicken Ecotypes in Lower Northern, Thailand**  
Yaemkong Suphawadee<sup>1</sup>, Nguyen Ngoc Tuan<sup>2</sup>  
<sup>1</sup>Pibulsongkram Rajabhat University, <sup>2</sup>Vietnam National University of Agriculture
- PO-03-5 Milk CSN2 Gene Expression Levels During All Lactation at Different Feeding Systems in Goats\***  
Akin Yakan<sup>1</sup>, Huseyin Ozkan<sup>2</sup>, Aysel Eraslan Sakar<sup>2</sup>, Necmettin Unal<sup>3</sup>, Ceyhan Ozbeyaz<sup>3</sup>  
<sup>1</sup>Department of Animal Science, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,  
<sup>2</sup>Department of Genetics, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,  
<sup>3</sup>Department of Animal Science, Faculty of Veterinary Medicine, University of Ankara, TURKEY
- PO-03-6 Damascus Goats' LTF Gene Expression Levels in Milk Somatic Cell at Different Feeding Systems**  
Aysel Eraslan Sakar<sup>1,2</sup>, Akin Yakan<sup>1</sup>, Huseyin Ozkan<sup>2</sup>, Ceyhan Ozbeyaz<sup>3</sup>, Necmettin Unal<sup>3</sup>  
<sup>1</sup>Department of Animal Science, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,  
<sup>2</sup>Department of Genetics, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,  
<sup>3</sup>Department of Animal Science, Faculty of Veterinary Medicine, University of Ankara, TURKEY
- PO-03-7 Goat Milk Somatic Cell PPAR  $\gamma$  Gene Expression Levels in Concentrate Based and Pasture based Feeding Systems**  
Huseyin Ozkan<sup>1,2</sup>, Akin Yakan<sup>1</sup>, Aysel Eraslan Sakar<sup>2</sup>, Necmettin Unal<sup>3</sup>, Ceyhan Ozbeyaz<sup>3</sup>  
<sup>1</sup>Department of Animal Science, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,  
<sup>2</sup>Department of Genetics, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,  
<sup>3</sup>Department of Animal Science, Faculty of Veterinary Medicine, University of Ankara, TURKEY
- PO-03-8 Somatometrical comparison on the morphological relationships between red jungle fowl, native fowl and their hybrid populations in Thailand**  
Kotaro Kawabe<sup>1</sup>, Rerkammuychoke Worawut<sup>2</sup>, Takao Nishida<sup>2</sup>, Takeshi Shimogiri<sup>3</sup>, Satoru Taura<sup>1</sup>, Shin Okamoto<sup>3</sup>  
<sup>1</sup>Institute of Gene Research, Natural Science Research Centre for Research and Education, Kagoshima University,  
<sup>2</sup>Faculty of Veterinary Medicine, Kasetsart University, <sup>3</sup>Faculty of Agriculture, Kagoshima University
- PO-03-9 Pre and Post Weaning Growth Performance of 50% Bore-Native and 50% Anglonubian-Native Crossbred Goat**  
Sukrat Phanom, Pirom Buakeaw, Suwit Anothaisinthawee  
 Department of livestock development
- PO-03-10 Genetic influence of HNF4  $\alpha$  gene SNP on the growth performance in Korean native chickens.**  
Seon hyang Kim, So-young Choi, Song-yi Yang, Sung-Jin Lee  
 Kangwon National University
- PO-03-11 Genetic variations in the Ovocalyxin-32 gene are associated with egg production traits in Korean native chickens**  
Ji-Ho Choi, So-Young Choi, Song-Yi Yang, Sung-Jin Lee, Ji-Yeon Lee  
 Kangwon National University
- PO-03-12 Effect of the amino acid change in the Japanese quail NK-lysin (CjNKL) on antimicrobial activity**  
Ishige Taichiro, Hiromi Hara, Takashi Hirano, Kei Hanzawa  
 Tokyo University of Agriculture
- PO-03-13 Suvey on the population structure and reproductive performance of feral cattle of Kuchinoshima island in Japan**  
Misao Kanemaki  
 Institute for Animal Science

**PO-03-14 Development of an NMR scanner for the marbling quantification of live cattle**

Yoshito Nakashima

National Institute of Advanced Industrial Science and Technology

**PO-03-15 Effects of Napier grass and Thapra Stylo silages with different levels of concentrate on milk production of dairy cows**

Smerjai Bureenok<sup>1</sup>, Kraisit Vasupen<sup>1</sup>, Chalermpon Yuangklang<sup>1</sup>, Benya Saenmahayak<sup>1</sup>, Kessara Ampaporn<sup>2</sup>

<sup>1</sup>Rajamangala University of Technology Isan, <sup>2</sup>Rajamangala University of Technology Isan, Sakon Nakhon Campus

**PO-03-16 Effect of Level of Cassava Pulp in Fermented Total Mixed Ration on Feed intake and Nutrient digestibility in Goats**

Songsak Chumpawadee<sup>1</sup>, Sukanya Leetongdee<sup>2</sup>

<sup>1</sup>Division of Animal Science, Faculty of Technology, Mahasarakham University, Thailand,

<sup>2</sup>Department of Bioprocessing, Faculty of Veterinary medicine, Mahasarakham University, Thailand

**PO-03-17 Additive effects on fermentation quality of fermented juice (from oil palm fronds) of epiphytic lactic bacteria**

Chanadda Phawachalotorn, Thanatsamonwan Phonmun

King Mongkut's Institute of Technology Ladkrabang Prince of Chumphon Campus, Thailand

**PO-03-18 Influence of age on oil palm fronds quality as roughage for ruminants**

Thaworn Subanrat, Orasa Choola-Aiet<sup>1</sup>, Suparat Jongjaraen, Patimawan Manit, Thanatsamonwan Phonmun

King Mongkut's Institute of Technology Ladkrabang Prince of Chumphon Campus, Thailand

**PO-03-19 Effect of fermented juice of epiphytic lactic acid bacteria (FJLB) levels on quality of oil palm fronds silage**

Thanatsamonwan Phonmun, Phakanong Pattarapudech, Thaworn Subanrat

King Mongkut's Institute of Technology Ladkrabang Prince of Chumphon Campus, Thailand

**PO-03-20 Diurnal changes in the methane concentration in the rumen headspace of cannulated cattle**

Y. K. Oh<sup>1</sup>, Y. W. Woo<sup>2</sup>, C. H. Lee<sup>3</sup>, Y. Lee<sup>3</sup>, K. H. Kim<sup>2,3</sup>

<sup>1</sup>Department of Animal Nutrition and Physiology, National Institute of Animal Science, RDA, Korea,

<sup>2</sup>Graduate School of International Agricultural Technology, Seoul National University, Korea,

<sup>3</sup>Green Bio Science and Technology, Seoul National University, Korea

**PO-03-21 Effects of Dietary Supplementation with *Andrographis paniculata*, Turmeric and Vitamin E on Growth Performance and Meat Quality of Goat**

Nantana Chauyuchuwong, Ratchasak Chauyuchuwong, Keatisak Soisuwan

Rajamangala University of Technology Srivijaya

**PO-03-22 INFLUENCE OF ARTOCARPUS LACUCHA MEAL SUPPLEMENTATION ON STRAW BASED DIETS USING IN VITRO GAS FERMENTATION TECHNIQUE**

Nirawan Gunun<sup>1</sup>, Pongsatorn Gunun<sup>2</sup>, Sudarat Tanpronsri<sup>1</sup>, Phailin Pongsathet<sup>1</sup>, Patraphol Jabal<sup>1</sup>, Natthapong Jumphaekaw<sup>1</sup>, Panchan Prachanan<sup>1</sup>, Pimpaka Doovisas<sup>1</sup>, Suksa Robroo<sup>1</sup>, Kannika Opatwong<sup>2</sup>, Aleeya Promnoy<sup>2</sup>, Anusorn Cherdthong<sup>3</sup>, Metha Wanapat<sup>3</sup>

Program in Animal Production Technology, Faculty of Technology, Udon Thani Rajabhat University, Thailand

**PO-03-23 The improving nutritional value of banana tree using microorganism on digestibility of beef cattle using In vitro gas production technique**

Sineenart Polyorach<sup>1,2</sup>, Onanong Pongchompu<sup>1</sup>, Metha Wanapat<sup>3</sup>, Thanousinh Kandee<sup>4</sup>, Wanida Tongsalab<sup>1</sup>, Waraporn Chaitamat<sup>1</sup>

<sup>1</sup> Department of Animal Science, Faculty of Natural Resources, Rajamangala University of Technology-Isan, Sakon Nakhon Campus, Thailand,

<sup>2</sup> Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>3</sup> Tropical Feed Resources Research and Development Center, Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>4</sup> Department of Animal Science, Faculty of Agriculture and Forest Resource, Souphanouvong University, Lao PDR

**PO-03-24 In vitro Gas Production Kinetics and Digestibility as Influenced by Spent Coffee Grounds and Napier Grass Varieties**

Pongsatorn Gunun, Nirawan Gunun, Metha Wanapat, Sineenart Polyorach, Charong Wachirapakorn, Promkot Chamnanwit, Paiwan Panyakaew, Kannika Opatawong, Aleeya Promnoy, Thanousinh Kandee, Yontida Singson, Thanaporn Ouppamong, Srisuda Sirilaophaisan

Department of Animal Science, Faculty of Natural Resources, Rajamangala University of Technology-Isan, Sakon Nakhon Campus, Thailand

**PO-03-25 Effects of Lactobacillus plantarum on the nutritive value of TMR prepared mainly Italian Ryegrass silage for lactational dairy cows**

Donghyun Lim, S.B. Park, S.H. Choi, T.I. Kim, K.S. Ki

National Institute of Animal Science

**PO-03-26 Effect of feeding garlic leaves on rumen fermentation, methane production and glucose metabolism in sheep**

Arvinda Panthee<sup>1</sup>, Ayano Matsuno<sup>2</sup>, Mohammad Al-Mamun<sup>3</sup>, Hiroaki Sano<sup>1,2</sup>

<sup>1</sup> The United Graduate School of Agricultural Science, Iwate University, <sup>2</sup> Dept. of Animal Science, Iwate University,

<sup>3</sup> Dept. of Animal Nutrition, Bangladesh Agricultural University

**PO-03-27 Effects of dietary protein levels on digestibility, nitrogen-balance and growth performance of fattening black goat (Capra hircus coreanae)**

Byong Tae Jeon<sup>1</sup>, Se Young Jang<sup>1</sup>, Sung Jin Kim<sup>1</sup>, Hye Jin Seong<sup>1</sup>, Sang Woo Kim<sup>2</sup>, Yu Ling Ding<sup>1</sup>, Yu Jiao Tang<sup>1</sup>, Yeong Sik YUN<sup>1</sup>

<sup>1</sup> Division of Food Bio Science, Konkuk University, Korea, <sup>2</sup> Nation Institute of Animal Scidnce, RDA, Korea

**PO-03-28 Effect of Thyme Essential oil and Di-sodium Fumarate on In Vitro Ruminal Nutrient Disappearance and Partitioning Factor**

Baraz Hiwa, Hossein Jahani-Azizabadi, Osman Azizi

Department of Animal Science, Faculty of Agriculture, University of Kurdistan, Iran

**PO-03-29 Combination of sunflower oil and nitrate on metabolizable energy, methane production and rumen fermentation of goats**

Pramote Paengkoum<sup>1</sup>, Jirawan Khotsakdee<sup>1</sup>, Siwaporn Paengkoum<sup>2</sup>

<sup>1</sup> Suranaree University of Technology, <sup>2</sup> Nakhon Ratchasima Rajabhat University

**PO-03-30 Effect of glucosinolate (Sinigrin) for reducing methane emission rumen parameters and microbial community in vitro**

Taeho Song<sup>1</sup>, Ahreum Choi<sup>1</sup>, Guiseck Bae<sup>1</sup>, Eunjoong Kim<sup>2</sup>, Changhyun Kim<sup>3</sup>, Moonbaek Chang<sup>1</sup>

<sup>1</sup> Chung-Ang university, <sup>2</sup> Kyungpook National University, <sup>3</sup> Hankyong National University

**PO-03-31 Replacement of corn silage for sugarcane silage diets on rumen metabolism in buffalo**

Raul Franzolin<sup>1</sup>, Teresa Cristina Alves<sup>2</sup>, José Raúl López Álvarez<sup>3</sup>, Thaysa dos Santos Silva<sup>1</sup>, Orlando Fundora Sánchez<sup>1</sup>

<sup>1</sup> Universidade de Sao Paulo-FZEA, Brazil, <sup>2</sup> EMBRAPA - Pecuaria Sudeste, Brazil, <sup>3</sup> Instituto de Ciencia Animal, Cuba

**PO-03-32 Effect of low-crude protein diet with rumen-protected Lysine supplementation for energy and nitrogen metabolism in lactating cow**

Kouji Higuchi<sup>1</sup>, Fumihito Ohtani<sup>1</sup>, Itoko Nonaka<sup>1</sup>, Takashi Osada<sup>1</sup>, Atsushi Haruno<sup>2</sup>, Yasuteru Sakamoto<sup>2</sup>, Takeshi Fujieda<sup>2</sup>

<sup>1</sup>Institute of Livestock and Grassland Science, NARO,

<sup>2</sup>AJINOMOTO Co., Inc., Research Institute for Bioscience Products and Fine Chemicals

**PO-03-33 Effect of methionine on energy metabolism in sheep with ruminal ethanol infusion**

Takeo Obitsu<sup>1</sup>, Keita Hosoba<sup>1</sup>, Mabrouk El-Sabagh<sup>1,2</sup>, Toshihisa Sugino<sup>1</sup>

<sup>1</sup>Graduate School of Biosphere Science, Hiroshima University,

<sup>2</sup>Faculty of Veterinary Medicine, Kafrelsheikh University

**PO-03-34 Effect of Adding Lysozyme at Different Inclusion Levels on In Vitro Rumen Fermentation**

Ashraf Biswas, Lovelia Mamuad, Catherine Avedoza, Seong Soo Jang, Jae Won Yoon, Min Gyu Kim, Maro Go, Sang Suk Lee

Department of Animal Science and Technology, Suncheon National University, Korea

**PO-03-35 Effects of bacillary probiotic (Bacillus subtilis C-3102) in spore form on the growth performance and intestinal immunity of heat-stressed broiler**

Motoi Kikusato<sup>1</sup>, Fumika Nanto<sup>1</sup>, Takuma Ishikawa<sup>1</sup>, Nobuhisa Ashida<sup>2</sup>, Tomokazu Imabayashi<sup>2</sup>, Masaaki Toyomizu<sup>1</sup>

<sup>1</sup>Animal Nutrition, Life Sciences, Graduate School of Agricultural Science, Tohoku University,

<sup>2</sup>ASAHI CALPIS WELLNESS Co., Ltd.

**PO-03-36 Effects of different forage and growth stage on adipogenesis of ovine preadipocytes**

Sang-Houn Song<sup>1</sup>, Da-Hye Kim<sup>1,2</sup>, Ki-Choon Choi<sup>3</sup>, Takuya Matsumoto<sup>1</sup>, Kei Matsuno<sup>1,2</sup>, Toshiyoshi Ichinohe<sup>1</sup>

<sup>1</sup>Faculty of Life and Environmental Science, Shimane University, Japan,

<sup>2</sup>The United Graduate School of Agricultural Sciences, Tottori University, Japan,

<sup>3</sup>Grassland and Forage Division, National Institute of Animal Science, RDA, Korea

**PO-03-37 Changes in Gut Microbiota in Japanese Black and Holstein Calves during Growing Stage**

Thuy Minh Tang<sup>1</sup>, Yusuke Sugimoto<sup>2</sup>, Yuji Tanabe<sup>2</sup>, Takeshi Tsuruta<sup>1</sup>, Naoki Nishino<sup>1</sup>

<sup>1</sup>Okayama University, <sup>2</sup>Okayama Livestock Research Institute

**PO-03-38 Evaluation of the Commercial Direct-Fed Microbial in Inhibition of E. coli and In Vitro Fermentation using Calves Fecal Slurry**

Catherine Avedoza, Lovelia Mamuad, Yeon Jae Choi, Ashraf Biswas, Suzy Lim, Maro Lee, Sang-Suk Lee

Department of Animal Science and Technology, Suncheon National University, Korea

**PO-03-39 Effect of stabilizer on methane mitigation efficiency of encapsulated nitrate in rumen fermentation**

Su-Jin Shin<sup>1</sup>, Henry Ajuna<sup>1</sup>, Jinho Yang<sup>1</sup>, Chaehwa Ryu<sup>1</sup>, Bitna Choi<sup>1</sup>, Sangbuem Cho<sup>2</sup>, Nag-Jin Choi<sup>1</sup>

<sup>1</sup>Department of Animal Science, Chonbuk National University, <sup>2</sup>Institute of CALS, CALS Co. Ltd

**PO-03-40 Optimization of submerged fermentation of Bacillus subtilis for surfactin production**

Yeong-Hsiang Cheng, Ching-Wen Chang, Yu-Hsiang Yu

Department of Biotechnology and Animal Science, National Ilan University

**PO-03-41 Applying fermented juice of epiphytic lactic acid bacteria (FJLB) powder as probiotics in weaned pig**

Kraisit Vasupen, Chalermpon Yuangklang, Sasiphan Wongsuthavas, Benya Saenmahayak, Smerjai Bureenok

Faculty of Sciences and Liberal Arts, Rajamangala University of Technology Isan

**PO-03-42 Effects of Various Corn particle size under optimal and heat stress condition on Nutrient Utilization in pigs**

Ji-hwan Lee, Chang Hee Lee, Won Yun, Seo Yuong Oh, Jin Ho Cho

Chungbuk National University

**PO-03-43 Evaluation of fermented whole wheat and barley feeding as ingredients in growing pigs**

Won Yun, Seong Jeong Park, Ji Hwan Lee, Seo Young Oh, Chang Hee Lee, Jin Ho Cho

Chungbuk National University

**PO-03-44 Effect of Heat-killed Lactobacillus plantarum L-137 on The Growth Performance and Productivity in Hinai-jidori Chicken (Slow-growing Japanese meat-type chicken)**

Kazuhiro Rikimaru<sup>1,3</sup>, Yoshitaka Hirose<sup>2</sup>, Hiroko Nakai<sup>2</sup>, Daiki Takahashi<sup>1</sup>, Yuki Sato<sup>1</sup>, Hironobu Hase<sup>3</sup>

<sup>1</sup> Akita prefectural Livestock Experiment Station,

<sup>2</sup> Research and Development Institute, House Wellness Foods Corporation,

<sup>3</sup> Lactobacillus product ingredients business department, House Wellness Foods Corporation

**PO-03-45 Production functional feed additive using Antrodia cinnamomea fermented soybean hull**

Lee Tzu-Tai<sup>1</sup>, Lin H. C.<sup>1</sup>, Chang S. C.<sup>2</sup>, Yu B.<sup>1</sup>

<sup>1</sup> Department of Animal Science, National Chung Hsing University,

<sup>2</sup> Changhua Animal Propagation Station, Livestock Research Institute, Council of Agriculture

**PO-03-46 Effect of Rhizopus fermentation Extract on Sexual Characteristics and Sperm Production in Male Japanese Quail**

Yu Teng Lan<sup>1</sup>, Stephanie Chen<sup>1</sup>, Yu Ming Liao<sup>2</sup>, Mei Fong Lin<sup>1</sup>

<sup>1</sup> National Taiwan University, <sup>2</sup> National Taipei University of Technology

**PO-03-47 The using of fermented vegetable soybean waste and banana stem in Black-bone chicken diets**

Tonglain buwjoom<sup>1</sup>, Buaream Maneewan<sup>1</sup>, Koh-en Yamauchi<sup>2</sup>

<sup>1</sup> Faculty of Animal Science and Technology, Maejo University, Thailand

<sup>2</sup> Faculty of Agriculture, Kagawa University, Miki-cho, Japan

**PO-03-48 Dietary peat moss as a regulator of breast meat quality in broilers**

Yang-Ho Choi<sup>1,2</sup>, Seok-Min. Kang<sup>3</sup>, Young-Rok Yang<sup>2</sup>, Dae-Woo Kim<sup>1</sup>

<sup>1</sup> Department of Animal Science, Gyeongsang National University, Korea,

<sup>2</sup> Institute of Agriculture and Life Sciences, Gyeongsang National University, Korea,

<sup>3</sup> Division of Applied Life Sciences (BK21 Plus program), Gyeongsang National University, Korea

**PO-03-49 Effect of Supplementation of an Alternative Sweetener to Diets on Feed Intake and Growth Performance of Piglets**

M.L. He<sup>1,3</sup>, H.F. Wang<sup>1</sup>, X.D. Wang<sup>1</sup>, X.X. Dou<sup>1</sup>, J.L. Wang<sup>2</sup>

<sup>1</sup> Zhejiang Agricultural and Forestry University, <sup>2</sup> Zhejiang Gomore Feed Co. Ltd.,

<sup>3</sup> Lucta (Guangzhou) Flavours Co. Ltd.

**PO-03-50 Effect of Supplement Truffle Flavor and Umami to Diet on Feed Intake, Lactation Performance and Backfat Thickness of Lactating Sows**

Y. Zhang<sup>1,2</sup>, F.F. Li<sup>1</sup>, X. Zhang<sup>1</sup>, M.L. He<sup>2</sup>

<sup>1</sup> Shenyang Agricultural University, <sup>2</sup> Lucta (Guangzhou) Flavours Co. Ltd.

**PO-03-51 IMPROVED THERMOSTABILITY OF ASPERGILLUS SULPHUREUS XYLANASE BY COMBINATION OF INTRODUCING DISULFIDE BOND AND PROLINE RESIDUE SUBSTITUTION**

YUNHE CAO, Wenhan Yang, Xiaojing Guo, Bing Dong

College of Animal Science and Technology, China Agricultural University

**PO-03-52 The effect of dietary *Aspergillus* on growth performance and immune response in growing-finishing pigs**

Chuan-Shun Lin

Agricultural Technology Research Institute

**PO-03-53 Evaluating the application of animal and plant oils and high acid value rendering oil in broiler feeds**

Kuo-Lung Ku<sup>1</sup>, Cheng-Yang Chuang<sup>1</sup>, Cheng-Wei Wang<sup>2</sup>, Kuo-Lung Chen<sup>2</sup>

<sup>1</sup>Department of Applied Chemistry, National Chiayi University, Taiwan,

<sup>2</sup>Department of Animal Science, National Chiayi University, Taiwan

**PO-03-54 Effect of dietary supplementation of mixed feedstuffs fermented by *Bacillus* sp. L6 on performances of broilers**

Kuo-Lung Chen, Weng-Keong Lo

Department of Animal Science, National Chiayi University, Taiwan

**PO-03-55 Fermented feather meal from steam drying process can promote the growth and immunity of broilers**

Ping-Hung Lin, Feng-Chan Tsai, Kuo-Lung Chen

Department of Animal Science, National Chiayi University, Taiwan

**PO-03-56 The improvement of growth performance and antioxidant ability in broilers using the additives with herbs and fungal complexes in diets**

Chi-Shih Chu<sup>1</sup>, Lin-Ping Huang<sup>2</sup>, Kuo-Lung Chen<sup>2</sup>

<sup>1</sup>Department of Microbiology, Immunology and Biopharmaceuticals, National Chiayi University, Taiwan,

<sup>2</sup>Department of Animal Science, National Chiayi University, Taiwan

**PO-03-57 The influence of green-tea-byproduct meal levels in the accumulation of fat and cholesterol in yolk from Japanese quail**

Hen-Wei Wei<sup>1</sup>, Chen-Chun Wei<sup>1</sup>, Min-Syh Chiou<sup>2</sup>, Yi-Cheng Lee<sup>1</sup>, Chian-Kai Chang<sup>3</sup>

<sup>1</sup>National Taiwan University, <sup>2</sup>Tea Research and Extension Station, <sup>3</sup>Li Han Enterprise Corporation Limited

**PO-03-58 Effects of dietary resources in high antioxidant activity on broiler chickens.**

Koichi Matsushita<sup>1</sup>, Toshiyuki Ishii<sup>2</sup>, Takumi Iwama<sup>3</sup>, Yuko Hirose<sup>3</sup>

<sup>1</sup>Yamanashi Prefecture Livestock Experimental Station, <sup>2</sup>Yamanashi Prefecture Agritech Center,

<sup>3</sup>Yamanashi University

**PO-03-59 The effects of feeding wet shochu distillers residue to fattening pigs on behavior and sensory traits of pork loin**

Sachi Katsumata<sup>1</sup>, Misako Kamakura<sup>1</sup>, Seira Isojima<sup>1</sup>, Ikuo Kobayashi<sup>1,2</sup>, Satoshi Kawahara<sup>1,2</sup>,  
Shinsuke Sakamoto<sup>1</sup>, Mitsuhiro Niimi<sup>1</sup>, Toshihiro Takahashi<sup>1,2</sup>, Tomoyuki Kawashima<sup>1,2</sup>

<sup>1</sup>University of Miyazaki Faculty of Agriculture,

<sup>2</sup>University of Miyazaki Center for Animal Disease Control

**PO-03-60 Distribution of  $\beta$ -carboline Derived from Tryptophan in Chickens**

Ryosuke Makino<sup>1</sup>, Kazumi Kita<sup>2</sup>

<sup>1</sup>Fac. of Agric., Ehime Univ., <sup>2</sup>Fac. of Agric. Iwate Univ.

**PO-03-61 Evaluation of Lesser Galangal (*Alpinia Officinarum* Hance) as Antibiotic Feed Additive in Performance, Carcass Quality and Health Status of Swine**

Tai Nang Nguyen, Van Cao, Hoang Lam Dang

Hungvuong University

**PO-03-62 Effect of radioactive cesium on Japanese black cows grazing on decontaminated pastures**

Hirotoishi Ishiguro<sup>1</sup>, Yousuke Saito<sup>1</sup>, Satoshi Watanabe<sup>1</sup>, Takashi Numabe<sup>1</sup>, Masatoshi Suzuki<sup>2</sup>, Yasushi Kino<sup>3</sup>, Manabu Fukumoto<sup>2</sup>

<sup>1</sup> Miyagi Prefecture Livestock Experiment Station, Japan,

<sup>2</sup> Department of Pathology, Institute of Development, Aging and Cancer, Japan,

<sup>3</sup> Radiochemistry, Department of Chemistry, Tohoku University, Japan

**PO-03-63 Anatomy and morphology of hyperostosis in Genus Caranx and Genus Alectis, from Anadaman sea, Thailand**

Waristha Angsirijinda<sup>1</sup>, Ekthida Thongdet<sup>1</sup>, Watiporn Yenchem<sup>2</sup>

<sup>1</sup> Mahanakorn University of Technology, <sup>2</sup> National Institute of Metrology (Thailand)

**PO-03-64 Presence of proliferating cell nuclear antigen (PCNA) positive cell clusters in the uropygial gland of the jungle crow *Corvus macrorhynchos***

Atsushi Hirao<sup>1</sup>, Koya Sasaki<sup>2</sup>, Shoei Sugita<sup>2</sup>

<sup>1</sup> Jichi Medical University School of Nursing, <sup>2</sup> Utsunomiya University Department of Animal Science

**PO-03-65 Stimulatory action of L-aspartic acid on growth hormone secretion in the anterior pituitary of wethers**

Tatsuyuki Takahashi<sup>1</sup>, Atsuko Saito<sup>1</sup>, Mao Fujimura<sup>1</sup>, Makoto Sugiyama<sup>1</sup>, Hideki Ogasawara<sup>1</sup>, Katsuyoshi Sato<sup>2</sup>, Yohei Kurose<sup>1</sup>

<sup>1</sup> Kitasato University School of Veterinary Medicine,

<sup>2</sup> Department of Agribusiness, Akita Prefectural University

**PO-03-66 Zinc sulfate pretreatment impacts the testicular antioxidant capacity and the acrosome biogenesis in Bama miniature pig under high ambient temperature**

ChunMei Li, Yansen Li, Yun Cao, Xin Zhou, Zhaojian Li

Nanjing Agricultural University

**PO-03-67 Changes in expression of CAT-1 and CAT-2 mRNA during myogenesis**

Aiko Ishida, Kazuki Nakashima

Institute of Livestock and Grassland Science, NARO

**PO-03-68 Adipocyte Differentiation Induced by Indomethacin and 3-Isobutyl-1-methylxanthine in Mammary Stromal Cells of Retired Mice in Primary Culture**

Takuya Kanazawa, Kenji Fujimata

Ibaraki University School of Agriculture

**PO-03-69 Restraint stress increases salivary corticosterone levels in adult male mice.**

Atsushi Tohei, Masakatsu Nohara, Takumi Sato, Hiromi Amao

Laboratory of Experimental Animal Science, Nippon Veterinary and Life Science University

**PO-03-70 Weeding Effect of Free-Ranging Pigs in an Abandoned Paddy Field Dominated by *Solidago altissima* L.**

Koji Takayama<sup>1</sup>, Mako Matsunaga<sup>1</sup>, Haruko Matsunaga<sup>1</sup>, Naoki Nogami<sup>2</sup>, Ichiro Oshima<sup>1</sup>, Yoshitaka Nakanishi<sup>1</sup>

<sup>1</sup> Faculty of Agricultural, Kagoshima University, <sup>2</sup> Nogami Co., Ltd

**PO-03-71 Myogenic stem cells isolated from soleus muscle may autonomously form slow-twitch fibers via Sema3A signaling.**

Takahiro Suzuki<sup>1</sup>, Yu-ki Ohya<sup>2</sup>, Shin-ichiro Nishimatsu<sup>3</sup>, Kumiko Terada<sup>3</sup>, Naoki Katase<sup>3</sup>, Hideaki Ohtsubo<sup>2</sup>, Wataru Mizunoya<sup>2</sup>, Ken Kobayashi<sup>1</sup>, Tsutomu Nohno<sup>3</sup>, Nishimura Takanori<sup>1</sup>, Ryuichi Tatsumi<sup>2</sup>

<sup>1</sup> Research Faculty of Agriculture, Graduate School of Agriculture, Hokkaido University,

<sup>2</sup> Department of Animal & Marine Bioresource Science, Graduate School of Agriculture, Kyushu University,

<sup>3</sup> Department of Molecular and Developmental Biology, Kawasaki Medical School

**PO-03-72 Difference in circulating microRNAs between grazing and concentrate-fed Japanese Black cattle**

Susumu Muroya<sup>1</sup>, Masayuki Hayashi<sup>1</sup>, Koichi Ojima<sup>1</sup>, Mika Oe<sup>1</sup>, Ikuyo Nakajima<sup>1</sup>, Masahiro Shibata<sup>2</sup>

<sup>1</sup>NARO Institute of Livestock and Grassland Science, <sup>2</sup>NARO Western Region Agricultural Center

**PO-03-73 Molecular Detection Of Anaplasma maginale In Cows In The Eastern Border Area**

Kanokrat Srikijkasemwat<sup>1</sup>, Paitoon Kaewhom<sup>2</sup>

<sup>1</sup>Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>2</sup>Faculty of Agricultural Technology, Burapha Univerisity, Sakaeo Campus, Thailand

**PO-03-74 Rapid discrimination of Bacillus subtilis group using MALDI-TOF MS technology**

Chien-Hsun Huang<sup>1</sup>, Ting-Jen Chuang<sup>1</sup>, Lina Huang<sup>1</sup>, Kuo-Lung Chen<sup>2</sup>

<sup>1</sup>Bioresource Collection and Research Center, Food Industry Research and Development Institute,

<sup>2</sup>Department of Animal Science, National Chiayi University

**PO-03-75 Effect of blended essential oil components on anti-biofilm formation of Salmonella and Escherichia coli**

Seo Young Oh, Won Yun, Ji Hwan Lee, Chang Hee Lee, Jin HO Cho

Chungbuk National University

**PO-03-76 Prevalence of Trypanosoma evansi Infection among Cattle and Buffalo from Sa Kaeo Province, Eastern Border Area of Thailand-Cambodia**

Paitoon Kaewhom<sup>1</sup>, Kanokrat Srikijkasemwat<sup>2</sup>

<sup>1</sup>Faculty of Agricultural Technology, Burapha University, Sakaeo Campus, Thailand,

<sup>2</sup>Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand

**PO-03-77 Effects of Irrigation of Dairy Wastewater at Napiergrass Pasture on the Soil and Plant Qualities**

Chu Hsin Liu<sup>1</sup>, Lu Chi Hsin<sup>2</sup>, Cheng Mei Ping<sup>1</sup>

<sup>1</sup>Management Division, Livestock Research Institute, <sup>2</sup>Forage Crops Division, Livestock Research Institute

**PO-03-78 Safety evaluation and application of the aerobic ultrahigh temperature fermented compost**

Chun-Xiang PIAO<sup>1</sup>, Junyou LI<sup>2</sup>, Zheng-Yu PIAO<sup>1</sup>, Guang-Chun LI<sup>1</sup>, Chang-Guo YAN<sup>1</sup>

<sup>1</sup>Department of Agricultural Resources and Environment, Agricultural College of Yanbian University, China,

<sup>2</sup>Animal Resource Science Center, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan

**PO-03-79 Virucidal efficacy of slaked lime and charcoal ash against Newcastle disease virus and Avian influenza virus**

Sakchai Ruenphet<sup>1</sup>, Darsaniya Punyadarsaniya<sup>2</sup>, Tippawan Jantafong<sup>3</sup>

Mahanakorn University of Technology

**PO-03-80 Sulfur-oxidizing bacterial communities in cattle manure compost**

Yumi Mori, Chika Tada, Yasuhiro Fukuda, Yutaka Nakai

Tohoku University Graduate School of Agricultural Science

## Day2: Wednesday, 24 August [Kyushu Sangyo University]

### Poster Session 04

Wednesday, 24 August 9:00-11:00 Room Circle Hall

**PO-04-1 Effects of Adding *Bacillus subtilis* in Starter Mixture for Growth Performance and Blood Traits in Lambs**

Ssu-yu Chen, Hsin-tai Hong, Chean-ping Wu  
National Chiayi University

**PO-04-2 Effects of Growth and Blood Traits in Lambs Fed Milk Replacers Containing Probiotics**

Chun-yun Wu, Hsin-tai Hong, Chean-ping Wu  
National Chiayi University

**PO-04-3 Differentially methylated CpG sites in bull sperm DNA revealed by human DNA methylation arrays**

Kumiko Takeda<sup>1</sup>, Eiji Kobayashi<sup>1</sup>, Satoshi Akagi<sup>1</sup>, Masahiro Kaneda<sup>2</sup>, Shinya Watanabe<sup>1</sup>  
<sup>1</sup> Institute of Livestock and Animal Science, NARO, <sup>2</sup> Tokyo University of Agriculture and Technology

**PO-04-4 The effects of dietary addition of whole crop sugar-rich rice silage on the fertility of postpartum suckling Japanese Black cows**

Kazunaga Oshima<sup>1</sup>, Yuji Goto<sup>1</sup>, Kimiyasu Takahashi<sup>2</sup>, Koichi Katayose<sup>1</sup>, Yasushi Ono<sup>1</sup>, Masashi Kagawa<sup>1</sup>, Yoshinori Ochiai<sup>1</sup>, Kazunori Tawara<sup>1</sup>, Yoshitake Watanabe<sup>1</sup>, Chihiro Kawakami<sup>1</sup>, Takashi Akagi<sup>1</sup>, Koichi Kishimoto<sup>1</sup>, Koji Fukuma<sup>2</sup>, Ichiro Otani<sup>1</sup>, Naoyuki Yamamoto<sup>1</sup>  
<sup>1</sup> NARO Western Region Agricultural Research Center (Oda),  
<sup>2</sup> NARO Western Region Agricultural Research Center (Fukuyama)

**PO-04-5 The Effect of Pentoxifylline Supplementation on Sperm Quality of Frozen Semen in Thai Indigenous Chickens (Chee)**

Chanyuth Thamwan, Kedsirin Sakwiwatkul, Chakrapong Chaikong, Jatuprom Khakhanmalee, Areerat Lertkitjaluk  
Mahasarakham University

**PO-04-6 Establishment and preservation of embryonic stem cells from Onagadori**

Teruo Maeda<sup>1,2,3</sup>, Qian Sun<sup>1</sup>, Ryo Ezaki<sup>1</sup>, Hiroyuki Horiuchi<sup>1</sup>  
<sup>1</sup> Graduate School of Biosphere Science, Hiroshima University,  
<sup>2</sup> Japanese Avian Bioresource Project Research Center, Hiroshima University,  
<sup>3</sup> The Research Center for Animal Science, Hiroshima University

**PO-04-7 Improvement in the post-thaw qualities of Okinawan native Agu pig spermatozoa treated with skim milk and Trolox prior to cryopreservation**

Hideki Tatemoto<sup>1</sup>, Ryuko Mitsube<sup>2</sup>, Isao Tokeshi<sup>2</sup>, Minami Uehara<sup>1</sup>, Yuki Sadoyama<sup>1</sup>, Mina Funabiki<sup>1</sup>, Toshihiro Konno<sup>1</sup>  
<sup>1</sup> Faculty of Agriculture, University of the Ryukyus, <sup>2</sup> Okinawa Prefectural Livestock Research Center

**PO-04-8 Concentration-dependent effects of glucose on frozen-thawed bovine sperm motility and viability**

Yosuke Naniwa, Masashi Kinukawa, Shohei Toda, Kyoko Uchiyama  
Livestock Improvement Association of Japan, Inc.

**PO-04-9 Attempt on the establishment of somatic cell nuclear transfer method in Japanese quail**

Shusei Mizushima<sup>1</sup>, Tamao Ono<sup>2</sup>, Tomohiro Sasanami<sup>3,4</sup>  
<sup>1</sup> Graduate School of Science and Engineering for Research, University of Toyama, Japan,  
<sup>2</sup> Division of Animal Science, Faculty of Agriculture, Shinshu University, Japan,  
<sup>3</sup> Department of Applied Biological Chemistry, Faculty of Agriculture, Shizuoka University, Japan,  
<sup>4</sup> United Graduate School of Agricultural Science, Gifu University, Japan

**PO-04-10 Enzyme-linked immunosorbent assay for bovine super-early pregnancy factor**

Kazuei Matsubara<sup>1</sup>, Kouki Kanamori<sup>1</sup>, Yuka Motoyama<sup>1</sup>, Kanako Koiwa<sup>1</sup>, Kazuo Koizumi<sup>2</sup>, Hiroshi Yoshida<sup>3</sup>, Kosuke Iga<sup>4</sup>, Manabu Shimizu<sup>4</sup>, Toh-ichi Hirata<sup>1</sup>

<sup>1</sup> Graduate School of Agriculture, Iwate University,

<sup>2</sup> National Livestock Breeding Center, Iwate station (NLBC Iwate station) ,

<sup>3</sup> General incorporated association Kuzumaki-machi Chikusan Kaihatsu kousha public corporation,

<sup>4</sup> Tohoku Agricultural Research Center, National Agriculture and Food Research Organization (NARO)

**PO-04-11 Seasonal variation of dog semen quality and freezability**

Kazuko Ogata<sup>1,2</sup>, Aiko Sasaki<sup>2,4</sup>, Borjigin Sarentonglaga<sup>2</sup>, Mio Yamaguchi<sup>2,3</sup>, Asuka Hara<sup>2,3</sup>, Akane Sato<sup>2,3</sup>, Kenji Nishihara<sup>4</sup>, Naoko Sugane<sup>4</sup>, Rika Fukumori<sup>2,3</sup>, Yoshikazu Nagao<sup>2,3</sup>

<sup>1</sup> Collaboration Center for Research and Development of Utsunomiya University, Japan,

<sup>2</sup> University Farm, Faculty of Agriculture, Utsunomiya University, Japan,

<sup>3</sup> Department of Animal Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan,

<sup>4</sup> East Japan Guide Dog Association, Japan

**PO-04-12 Effects of pretreatment with resveratrol on the quality of post-thaw cryopreserved bovine embryos**

Takeshi Hayashi<sup>1</sup>, shuji Ueda<sup>1</sup>, Miyuki Mori<sup>1</sup>, Harumi Ono<sup>1</sup>, Hisataka Iwata<sup>2</sup>

<sup>1</sup> Fukuoka Agriculture and Forestry Research Center, <sup>2</sup> Tokyo University of Agriculture

**PO-04-13 The effects of glycerol on the maturational and developmental potential of porcine oocytes**

Yasuhiro Tsuzuki, Keishi Gohara, Yoshihiro Hayashi, Koji Ashizawa

University of Miyazaki, Faculty of Agriculture

**PO-04-14 Effects of near-infrared laser irradiation on the in vitro development of mouse embryos**

Masaki Yokoo, Miho Mori, Kurara Saga

Faculty of Bioresource Sciences, Akita Prefectural University

**PO-04-15 Zfp207 is a Bub3 binding protein regulating meiotic chromosome alignment in mouse oocytes**

Bo Xiong, Xiaoxin Dai, Mianqun Zhang, Shaochen Sun

Nanjing Agricultural University

**PO-04-16 Both high-fat diet and gene mutation induced obesity affect oocyte quality in mice**

Shao-Chen Sun

Nanjing Agricultural University

**PO-04-17 Effect of seasons on aspects of in vitro embryo production in Japanese Black cattle**

Takashi Saiki, Yuki Kawachi, Hideki Tsuchiya, Motoharu Miyamura, Seizo Hamano

Livestock Improvement Association of Japan, Inc.

**PO-04-18 Preliminary Study of Ovulation Induction by Low Dose of eCG and Timed Artificial Insemination with hCG in Swamp Buffalo**

Adisak Sangkaew<sup>1</sup>, Chaiwat Jarassaeng<sup>1</sup>, Sarawut Sri-ngam<sup>1</sup>, Saksiri Sirisathien<sup>1</sup>, Seri Khang-air<sup>2</sup>

<sup>1</sup> Department of Surgery and Theriogenology, Faculty of Veterinary Medicine, Khon Kaen University,

<sup>2</sup> Department of Veterinary Public Health, Faculty of Veterinary Medicine, Khon Kaen University

**PO-04-19 Effects of Sericin Supplementation on Cryopreserved sperm survival of Thai Native Chicken**

Thevin Vongpralub<sup>1,2</sup>, Pachara Thananurak<sup>1</sup>, Napapach Chuaychu-noo<sup>2</sup>, Saennumphung Somtaw<sup>3</sup>,

Naline Tubtimtong<sup>4</sup>, Pronjit Sornseeda<sup>5</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup> Research and Development Network Center for Animal Breeding (Native chicken), Faculty of Agriculture, Khon Kaen University, Thailand

**PO-04-20 Factors affecting DNA damage in bovine spermatozoa after freeze drying**

Kazutsugu Matsukawa<sup>1</sup>, Mana Nitta<sup>1</sup>, Toshinori Oikawa<sup>2</sup>, Shinnosuke Tamura<sup>1</sup>, Mami Hosokawa<sup>1</sup>, Aoi Kono<sup>1</sup>, Satoshi Akagi<sup>3</sup>, Akihiko Ichikawa<sup>4</sup>, Keisuke Edashige<sup>1</sup>

<sup>1</sup> Faculty of Agriculture and Marine Science, Kochi University,

<sup>2</sup> Miyagi Prefectural Livestock Experiment Station,

<sup>3</sup> Institute of Livestock and Grassland Science, NARO,

<sup>4</sup> Department of Mechatronics Engineering, Meijo University

**PO-04-21 Direct exposure of retinoic acid induces meiotic differentiation of cultured chicken primordial germ cells**

Daichi Miyahara<sup>1,2</sup>, Nozomi Kurumisawa<sup>2</sup>, Tamao Ono<sup>2</sup>, Hiroshi Kagami<sup>2</sup>, Takahiro Tagami<sup>1</sup>

<sup>1</sup> Institute of Livestock and Grassland Science, NARO, <sup>2</sup> Faculty of Agriculture, Shinshu University

**PO-04-22 Regulation of sperm capacitation by molecules present in the female oviduct**

Masakatsu Fujinoki

Dokkyo Medical University School of Medicine

**PO-04-23 Both estrone and estrinol non-genomically suppress luteinizing hormone secretion from the bovine anterior pituitary cells via the estradiol receptor GPR30**

Kadokawa Hiroya, Otsuka Midori

Yamaguchi University

**PO-04-24 Melamine impairs female fertility via suppressing protein level of Juno in mouse eggs**

XiaoXin Dai

Nanjing Agricultural University

**PO-04-25 The effect of continuous measurement of vaginal temperature as an indicator of calving time in Japanese Black cows**

Miki Sakatani<sup>1</sup>, Takaaki Sugano<sup>2</sup>, Aiki Higo<sup>3</sup>, Koji Naotsuka<sup>2</sup>, Satoru Gessei<sup>4</sup>, Takuo Hojo<sup>1</sup>, Hiroshi Uehara<sup>2</sup>, Naoki Takenouchi<sup>1</sup>

<sup>1</sup> Kyushu Okinawa Agricultural Research Center, NARO, <sup>2</sup> NTT DOCOMO, <sup>3</sup> Kimotsuki Daichi Farm,

<sup>4</sup> JA Kagoshima Kimotsuki

**PO-04-26 Sperm Pretreatment with Dithiothreitol (DTBA) Increased Developmental Competence of Bovine Oocytes after ICSI**

Tayita Suttirojpatana<sup>1,2</sup>, Tamas Somfai<sup>2</sup>, Satoko Matoba<sup>2</sup>, Takashi Nagai<sup>3</sup>, Rangsun Parnpai<sup>2</sup>, Masaya Geshi<sup>2,4</sup>

<sup>1</sup> Suranaree University of Technology, School of Biotechnology, Thailand,

<sup>2</sup> Animal Breeding and Reproduction Research Division, Institute of Livestock and Grassland Science, NARO, Japan,

<sup>3</sup> International Cooperation Section, National Agriculture and Food Research Organization (NARO), Japan,

<sup>4</sup> Division of Animal Sciences, Institute of Agrobiological Sciences, National Agriculture and Food Research Organization (NARO), Japan

**PO-04-27 Effect of Cdc42 inhibitor on maturation rate of mouse cumulus and denuded oocytes during in vitro maturation**

Mohamed El-Sharawy<sup>1,2</sup>, Asami Tanaka<sup>1</sup>, Hikaru Suyama<sup>1</sup>, Md. Rashedul Islam<sup>1,3</sup>, Nobuhiko Yamauchi<sup>1</sup>

<sup>1</sup> Department of Animal and Marine Bioresource Sciences, Faculty of Agriculture, Kyushu University, Japan,

<sup>2</sup> Animal Production Department, Faculty of Agriculture, Kafrelsheikh University, Egypt,

<sup>3</sup> Department of Genetics and Animal Breeding, Faculty of Veterinary and Animal Science, Hajee Mohammad Danesh Science and Technology University, Bangladesh

**PO-04-28 GONADAL DEVELOPMENT IN GERMLINE CHIMERIC CHICKENS TRANSFERRED BY HETEROSEXUAL PRIMORDIAL GERM CELLS**

Hiroki Furuta, Yuki Ichikawa, Kaho Kaneda, Ai Kojima, Yuka Yokoi, Tatsuyuki Yoshida

Nippon Veterinary and Life Science University

**PO-04-29 Induction of autoimmune orchitis in goat with syngeneic sperm for male immunocontraception**

Junko Noguchi<sup>1</sup>, Shinya Watanabe<sup>2</sup>, Kazuhiro Kikuchi<sup>1</sup>, Hiroyuki Kaneko<sup>1</sup>

<sup>1</sup>Institute of Agrobiological Sciences, NARO, <sup>2</sup>Institute of Livestock and Grassland Science, NARO

**PO-04-30 The effect of the grazing grass species on the meat quality grade of the beef carcass in Japan**

Makoto Kaneko, Yoshi-Nori Nakamura, Ryoji Kobayashi

NARO Kyushu Okinawa Agricultural Research Center

**PO-04-31 Pre-fusion Treatment with Phytohemagglutinin-P (PHA-P) Increases Relative Expression of Mitochondria Related Genes in Somatic Cell Nuclear Transfer Embryos in Pig**

Ndubuisi Samuel Machebe<sup>1,2,3</sup>, Masaki Hata<sup>1</sup>, Kohei Arifuku<sup>1</sup>, Yurika Narumiya<sup>1</sup>, Yuki Itani<sup>1</sup>, Kazuki Ohata<sup>1</sup>, Tetsuya Tani<sup>1</sup>, Yoko Kato<sup>1</sup>

<sup>1</sup>Laboratory of Animal Reproduction, Kinki University, Japan, <sup>2</sup>JSPS Postdoctoral Fellow for Foreign Researchers,

<sup>3</sup>Department of Animal Science, University of Nigeria

**PO-04-32 Round-bale Silage Harvesting and Processing Effects on Dry Matter Yield, Overwintering Ability, Fermentation Quality, and Palatability of Dwarf Napiergrass**

Satoru Fukagawa<sup>1</sup>, Kenichi Kataoka<sup>1</sup>, Yasuyuki Ishii<sup>2</sup>

<sup>1</sup>Nagasaki Agricultural and Forestry Technical Development Center,

<sup>2</sup>Faculty of Agriculture, University of Miyazaki

**PO-04-33 Utilisation of Sunnhemp (*Crotalaria juncea*) as Roughage Source in beef cattle**

Pipat Lounglawan<sup>1</sup>, Supreena Srisaikhom<sup>1</sup>, Pitunart Noosen<sup>2</sup>

<sup>1</sup>School of Animal Production Technology, Institute of Agricultural Technology, Suranaree University of Technology, Thailand,

<sup>2</sup>Department of Animal Science, Faculty of Natural Resources, Prince of Songkla University, Thailand

**PO-04-34 Evaluation of incorporating an improved *Leucaena* forage for grass-fed beef production in a tropical ecosystem**

Glen K. Fukumoto<sup>1</sup>, Yong Soo Kim<sup>1</sup>, Perry Kealoha<sup>2</sup>

<sup>1</sup>University of Hawaii at Manoa, College of Tropical Agriculture and Human Resources,

<sup>2</sup>Kamehameha Schools

**PO-04-35 Evaluation of Palatability for Crop Species and Conserving Methods in Korean Native Cattle**

Jong Geun Kim<sup>1,2</sup>, Yu Wei Li<sup>1</sup>, Meing Joong Kim<sup>2</sup>, Han Jong Ko<sup>3</sup>, Hyung Soo Park<sup>4</sup>, Hak Jin Kim<sup>2</sup>, Suk Im Jeong<sup>2</sup>

<sup>1</sup>Graduate School of International Agricultural Technology, Seoul National University,

<sup>2</sup>Research Institute of Eco-friendly Livestock Science, INSTITUTE of GREEN BIO SCIENCE & TECHNOLOGY, Seoul National University,

<sup>3</sup>Department of Agriculture Science, College of Natural Science, Korea National Open University,

<sup>4</sup>Grassland and Forage Division, National Institute of Animal Science, RDA

**PO-04-36 Forage selection of tropical forage legume species by Japanese Black cattle**

Manabu Tobisa

Faculty of Agriculture, University of Miyazaki

**PO-04-37 The application of chemical pretreatment on digestibility improvement of domestic alternative forage - an in vitro fermentation evaluation**

Han-Tsung Wang<sup>1</sup>, Shiau-Wei Chen<sup>2</sup>, Jih-Tay Hsu<sup>2</sup>

<sup>1</sup>Department of Animal Science, Chinese Culture University,

<sup>2</sup>Department of Animal Science and Technology, National Taiwan University

**PO-04-38 Effect of Lactic Acid Bacteria and Temperature on the Fermentation Quality of Total Mixed Ration for Ruminants**

Suyeon Kim<sup>1</sup>, Kihwan Lee<sup>1</sup>, Tabita Dameria Marbun<sup>1</sup>, Juhui Kang<sup>1</sup>, Jaeyong Song<sup>1</sup>, Sangbuem Cho<sup>2</sup>, Eun Joong Kim<sup>1</sup>

<sup>1</sup> Department of Animal Science, Kyungpook National University, Korea,

<sup>2</sup> Institute of Circulation Agriculture and Livestock Solutions, CALS Co., Ltd., Korea

**PO-04-39 Effects of providing fatty acid–calcium soap with high oleic acid content on fatty acid composition in Japanese Black steers**

Nobutada Sakagami, Hiroyuki Tsuji, Shinji Hashimura, Kiyoshi Akiyama, Kentaro Orihara

Kanagawa Prefectural Livestock Industry Technology Center

**PO-04-40 Effects of lactic acid bacteria inoculation and wilting on silage fermentation of Nilegrass silage**

Bi Yu, Pin-Rou Huang, Geng-Jhen Fan, Tzu-Tai Lee

Department of Animal Science, National Chung Hsing University, Taiwan

**PO-04-41 Carcass Commercial Cuts Percentage of Ram Raised Under Different Energy-Protein Ratio Feeding and Different Slaughtered Weight**

Endang Purbowati, Rega Dianzha Yudha, Edy Rianto

Diponegoro University, Faculty of Animal and Agricultural Sciences

**PO-04-42 Production performance and plasma metabolites in Japanese Black and Holstein crossbred steers offered fed silage- based total mixed ration**

Hiroataka Kasuya, Tetushiro Endo, Waka Saito, Ooi Tomoki, Soichi Kageyama

Hokkaido Research Organization Animal Research Center

**PO-04-43 Improvement of the Quality of Air-dried Rice Straw by Ensiling with Acidic Solution and Cellulase**

Xinbao Liu, Yixin Shen

Nanjing Agricultural University

**PO-04-44 Nutritive Value and Silage Quality of Sweet Sorghum as Influenced by Nitrogen Fertilization Rate and Harvest Time**

Yixin SHEN

Nanjing Agricultural University

**PO-04-45 Breeding of Napiergrass (*Pennisetum purpureum*) Taisu no.6**

Jeng-Bin Lin<sup>1</sup>, Tzu-Rung Li<sup>1</sup>, Shyh-Rong Chang<sup>1</sup>, Chi-Hsin Lu<sup>1</sup>, Churng-Faung Lee<sup>1</sup>, Yih- Min Shy<sup>1</sup>, Shu-Fen Yan<sup>1</sup>, Hsi-Hsun Wu<sup>2</sup>, Yu-Kuie Cheng<sup>1</sup>

<sup>1</sup> Livestock Research Institute, Council of Agriculture, Taiwan,

<sup>2</sup> Department of Animal Science, National Pingtung University of Science and Technology, Taiwan

**PO-04-46 Physical and Growth Characteristics of Japanese 'Kuchinoshima Feral Cattle', a Native Cattle Breed**

Ichiro Oshima<sup>1</sup>, Yuki Chikara<sup>2</sup>, Akira Tominaga<sup>1</sup>, Daiki Yanagita<sup>1</sup>, Daisuke Ishii<sup>1</sup>, Satoshi Matsumoto<sup>1</sup>, Kiyomi Katahira<sup>1</sup>, Koji Takayama<sup>1</sup>, Yoshitaka Nakanishi<sup>1</sup>

<sup>1</sup> Faculty of Agriculture, Kagoshima University,

<sup>2</sup> The United Graduate School of Agricultural Sciences, Kagoshima University

**PO-04-47 Fermentation of rumen content from abattoir waste using different level of additives and different fermentation period**

MARJUKI MARJUKI

Faculty of Animal Husbandry, Brawijaya University, Indonesia

**PO-04-48 Fermentation quality of Tropical Grasses Silage treated with Lactic acid bacteria and Cellulase**

Waroon Khota<sup>1</sup>, Suradej Pholsen<sup>1</sup>, Yimin Cai<sup>2</sup>

<sup>1</sup> Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup> Institute of Livestock and Grassland Science (NILGS), NARO, Japan

**PO-04-49 Silage fermentation of natural grasses in meadow steppe and typical steppe**

Meiling Hou<sup>1</sup>, Gentu Ge<sup>1</sup>, Tingyu Liu<sup>2</sup>, Yushan Jia<sup>1</sup>, Yimin Cai<sup>3</sup>

<sup>1</sup> Inner Mongolia Agricultural University, <sup>2</sup> Inner Mongolia University of Nationalities,

<sup>3</sup> National Institute of Livestock and Grassland Science

**PO-04-50 Effect of molasses and cellulase on the silage fermentation of kudzu, sugarcane top and their mixture**

Xinzhu Chen<sup>1</sup>, Wenyang Li<sup>1</sup>, Yifen Zhuang<sup>2</sup>, Boqi Weng<sup>1</sup>, Yimin Cai<sup>3</sup>

<sup>1</sup> Fujian Academy of Agricultural Sciences, <sup>2</sup> Fujian Agriculture and Forest University,

<sup>3</sup> National Institute of Livestock and Grassland Science

**PO-04-51 Influence of a Rice Whole Crop Silage Diet during the Hot Season on Growth Performance and Gene Expression in Steers.**

Masahiro Shibata, Yasuko Hikino, Kazunori Matsumoto, Naoyuki Yamamoto

Western Region Agricultural Research Center, NARO

**PO-04-52 Effects of two nitrogen sources on plant height, yield and nutritive value of Napier grass grown on terraced hill**

Ramli Bin Abdullah, Mohammad Mijanur Rahman, Wan Embong Wan Khadijah

Institute of Biological Sciences, Faculty of Science, University of Malaya

**PO-04-53 Study of fermentation quality and in situ rumen degradability of kudzu silage**

Kenichi Horiguchi, Misako Yamamoto, Hiroki Matsuyama, Syuji Urakawa, Norio Yoshida, Toshiyoshi Takahashi

Faculty of Agriculture, Yamagata University

**PO-04-54 Evaluation of Protein Utilization from Broken Job's tears and Job's tears bran in Weanling Pigs**

Chaiyapruet Hongladdaporn, Sawang Kullawong, Suthasinee Kruttaga

Loei Rajabhat University

**PO-04-55 Super-Dosing Effect of Dietary Phytase on Laying Performance and Egg Quality in Laying Hens**

Jong Hyuk Kim, Ji Eun Shin, Gi Ppeum Han, Dong Yong Kil

Chung-Ang University

**PO-04-56 Dietary Supplementation of Activated IGF-I during Gestation and Lactation Affects Sow and Piglet Performance**

Francis Carlo Reyes<sup>1</sup>, Anthony Francis Regaspi<sup>1</sup>, Emily Angeles<sup>1</sup>, Jose Karlo Cardona<sup>1</sup>, Medallaine Dimaiwat<sup>1</sup>, Joel Thaddeus Aldemita<sup>1</sup>, Veneranda Magpantay<sup>2</sup>, Soleil Cabigting<sup>3</sup>, Niño Jesus Bagui<sup>3</sup>, Baby Helen Briones<sup>3</sup>, Lucilo Plata<sup>3</sup>, Brett Casebolt<sup>4</sup>

<sup>1</sup> Philchema, Inc. Philippines,

<sup>2</sup> Animal and Dairy Sciences Cluster, University of the Philippines Los Baños Philippines,

<sup>3</sup> Soro-soro Ibaba Development Corporation, Philippines,

<sup>4</sup> Gbh Laboratories, LLC., USA

**PO-04-57 Effect of sodium butyrate supplementation in milk replacer on growth and blood parameters in lambs**

Hsin-tai Hong, Chean-ping Wu

National Chiayi University

- PO-04-58 Effects of Energy Values Evaluated by Supplementation of Lysophospholipids on Growth Performance and Nutrient Digestibility in Growing Pigs**  
MinJu Kim, Abdolreza Hosseindoust, Suhyup Lee, Yohan Choi, Semin Jeon, YeonHa Kim, Byung Jo Chae  
 Kangwon National University
- PO-04-59 Effects of nutrient levels and feed Composition in Weaner Diets on Growth Performance of Growing-Finishing Pigs**  
JongKwan Jo, Abdolreza Hosseindoust, Suhyup Lee, Yohan Choi, Kim, Semin Jeon, Minju Kim, Ill Kyong Kwon, Byung Jo Chae  
 Kangwon National University
- PO-04-60 Effects of dietary L-ornithine on mother milk free amino acid composition and pup sleeping behavior in mice**  
Mayumi Takakura<sup>1</sup>, Satsuki Nagamachi<sup>1</sup>, Takuma Nishigawa<sup>1</sup>, Vishwajit S. Chowdhury<sup>2</sup>, Shinobu Yasuo<sup>1</sup>, Mitsuhiro Furuse<sup>1</sup>  
<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,  
<sup>2</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University
- PO-04-61 Effects of dietary L-serine on free amino acid composition of milk and performance of offspring in mice**  
Satsuki Nagamachi<sup>1</sup>, Mayumi Takakura<sup>1</sup>, Takuma Nishigawa<sup>1</sup>, Vishwajit S. Chowdhury<sup>2</sup>, Shinobu Yasuo<sup>1</sup>, Mitsuhiro Furuse<sup>1</sup>  
<sup>1</sup>Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,  
<sup>2</sup>Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University
- PO-04-62 Effect of dietary melamine concentrations on performance and tissue melamine residue in broiler chickens**  
Ji Eun Shin, Jong Hyuk Kim, Gi Ppeum Han, Dong Yong Kil  
 Chung-Ang University
- PO-04-63 Chronic administration of eicosapentaenoic acid increased fat utilization by up-regulating oxidative metabolism related genes of skeletal muscle in rats**  
Yusuke Komiya, Jun Hai, Fuminori Kawabata, Mako Nakamura, Ryuichi Tatsumi, Yoshihide Ikeuchi, Wataru Mizunoya  
 Department of Bioresource Sciences, Faculty of Agriculture, Kyushu University
- PO-04-64 Evaluation of the bacterial composition in porcine colostrum and mature milk**  
Yuri Harada<sup>1</sup>, Takamitsu Tsukahara<sup>1,2</sup>, Shoya Tai<sup>1</sup>, Nobuo Nakanishi<sup>3</sup>, Kikuto Fukuta<sup>4</sup>, Ryo Inoue<sup>1</sup>  
<sup>1</sup>Laboratory of Animal Science, Kyoto Prefectural University, <sup>2</sup>Kyoto Institute of Nutrition & Pathology,  
<sup>3</sup>KYODOKEN Institute, <sup>4</sup>Technical Center, Toyohashi Feed Mills
- PO-04-65 EFFECTS OF DIFFERENT ENVIRONMENTAL TEMPERATURES ON BASAL METABOLISM OF GROWING PIGS**  
Yu Ju Chou, I Lei Hung, Shyh Hwa Liu, Liang Chou Hsia  
 National Pingtung University of Science and Technology
- PO-04-66 THE BACTERIOSTATIC EFFECT OF COCONUT OIL IN ESCHERICHIA COLI AND SALMONELLA ENTERICA (in vitro)**  
Yi Sin Liu, Shu Ping Su, Jai Wei Lee, Liang Chou Hsia, Shyh Hwa Liu  
 National Pingtung University of Science and Technology
- PO-04-67 EFFECTS OF EXTRUDED AND FERMENTED SOYBEAN MEAL ON THE GROWTH PERFORMANCE OF WEANING PIGS**  
Wen Yen Lin, Liang Chou Hsia, Shyh Hwa Liu  
 National Pingtung University of Science and Technology

**PO-04-69 Reduction of Odorous Compounds using Fermented Liquid Sulfur on Swine In Vitro Fermentation**

Min Gyu Kim, Yeon Jae Choi, Lovelia Mamuad, Ashraf Biswas, Maro Lee, Arang Son, Seong Soo Jang, Jae Won Yoon, Maro Go, Sang Suk Lee

Department of Animal Science and Technology, Suncheon National University, Korea

**PO-04-70 Supplementation of microencapsulated DHA/EPA (SALMATE®) improved reproductive performance in sows reflected by decreased losses in backfat thickness and body weight**

Un-Chel Jung<sup>1</sup>, Emil Joseph Vergara<sup>2</sup>, Wenchie Marie Lumbea<sup>2</sup>, Robin Guevarra<sup>2</sup>, Seung-Yeol Cho<sup>3</sup>, Seong Gu Hwang<sup>2</sup>

<sup>1</sup>Naram Feed, <sup>2</sup>Hankyong National University, <sup>3</sup>Eugene Bio

**PO-04-71 ACE inhibitory activity of original peptides derived from “milky miso” on hypertensive rats and people**

Michio Muguruma<sup>1</sup>, Satoshi Kawahara<sup>2</sup>, Kazuhiro Kusumegi<sup>3</sup>, Tsuyoshi Hishinuma<sup>4</sup>, Masugi Maruyama<sup>5</sup>, Toyoo Nakamura<sup>6</sup>

<sup>1</sup>Department of Nutrition Management, Faculty of Health and Nutrition, Minami Kyushu University,

<sup>2</sup>Department of Biochemistry and Applied Biosciences, Faculty of Agriculture, University of Miyazaki,

<sup>3</sup>Yamae Foods Inc., <sup>4</sup>Japan Livestock Industry Association, <sup>5</sup>Faculty of Medicine, University of Miyazaki,

<sup>6</sup>Marunaka Food Inc.

**PO-04-72 Effect of raw milk to whey ratio on the quality and digestibility of Ricotta cheese**

Mei-Jen LIN, Chung-Shiuan Wu

National Pingtung University of Science and Technology

**PO-04-73 Molecular basis of maternal blood IgY transfer into egg yolks of birds**

Atsushi Murai, Takahito Hamano, Takuou Takimoto, Misako Kakiuchi, Misato Kobayashi, Fumihiko Horio

Nagoya University Graduate School of Bioagricultural Sciences

**PO-04-74 Evaluation of the growth performance in various strains of Korean native chickens for 20 weeks after hatch**

Eunjoo Kim, Samiru Sudharaka Wickramasuriya, Jaehong Yoo, Nuri Kim, Taeg Kyun Shin, Hyun Min Cho, Jung Min Heo

Department of Animal Science and Biotechnology, Chungnam National University

**PO-04-75 Effects of Coenzyme Q10 on the Expression of Genes Involved in Lipid Metabolism in Laying Hens**

Yang Soo Moon, In Surk Jang

Gyeongnam National University of Science and Technology

**PO-04-76 Stable and simple culture protocol for chicken primordial germ cells using apoptosis inhibitor**

Ryo Ezaki, Fumiya Hirose, Shuichi Furusawa, Hiroyuki Horiuchi

Hiroshima University Graduate School of Biosphere Science

**PO-04-77 Multi-strain probiotic SYNLAB® II and its impact on the intestinal health and immunity of broiler**

Ting-Yu Lee<sup>1</sup>, Hung-Hsi Hu<sup>2</sup>, San-Land Young<sup>1</sup>, Chu Chih-Yuan<sup>3</sup>, Liu Je-Ruei<sup>3</sup>, Lin Jin-Seng<sup>1</sup>

<sup>1</sup>SynbioTech Inc., Kaohsiung Taiwan, <sup>2</sup>Department of Food Science, National Penghu University, Taiwan,

<sup>3</sup>Department of Animal Science, National Taiwan University, Taiwan

**PO-04-78 Acute heat stress changes protein expression of small yellow follicles in a boiler-type B strain Taiwan country chicken**

San-Yuan Huang<sup>1,2,3,4</sup>, Chuen-Yu Cheng<sup>1</sup>, Wei-Lin Tu<sup>1</sup>, Chao-Jung Chen<sup>5,6</sup>, Hong-Lin Chan<sup>7,8</sup>,  
Chih-Feng Chen<sup>1,2,3</sup>, Hsin-Hsin Chen<sup>1</sup>, Pin-Chi Tang<sup>1,2,3</sup>, Yen-Pai Lee<sup>1</sup>, Shuen-Ei Chen<sup>1,2,3</sup>

<sup>1</sup> Department of Animal Science, National Chung Hsing University,

<sup>2</sup> Agricultural Biotechnology Center, National Chung Hsing University,

<sup>3</sup> Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University,

<sup>4</sup> Center of Nanoscience and Nanotechnology, National Chung Hsing University,

<sup>5</sup> Proteomics Core Laboratory, Department of Medical Research, China Medical University Hospital,

<sup>6</sup> Graduate Institute of Integrated Medicine, China Medical University,

<sup>7</sup> Institute of Bioinformatics and Structural Biology, National Tsing Hua University,

<sup>8</sup> Department of Medical Sciences, National Tsing Hua University

**PO-04-79 Effects of rice mixing ratio on productive performance in broiler chickens**

Ken Tatsuda, Sho Ishikawa

Hyogo Prefectural Institute for Agriculture, Forestry and Fisheries

**PO-04-80 Efficacy of Supplementary Pengergetic(R) T poultry on Production Performance, Oocyst Quantity and Intestinal Morphology of Broilers Infected with Eimeria tenella**

Jamlong Mitchaothai, Patipan Jaipeng, Kornkamon Paditporn, Rachakris Lertpatarakomol

Faculty of Veterinary Medicine, Mahanakorn University of Technology

**PO-04-81 SGLT1 and aquaporin gene expression in chick intestine**

Noboru Saito, Shihoko Asai

Okayama University

## Day3: Thursday, 25 August [Kyushu Sangyo University]

### Poster Session 05

Thursday, 25 August 8:30-10:30 Room Circle Hall

**PO-05-1 Combined actions of sodium diacetate with surfactant agents on pathogenic bacteria, isolated from pig carcasses, in meat medium**

Pussadee Tangwatcharin<sup>1</sup>, Natjaya Ekapakul<sup>2</sup>

<sup>1</sup> Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>2</sup> Faculty of Science, Konkaen University, Thailand

**PO-05-2 Sequencing and Characterization of Divergent Marbling Levels in the Beef Cattle (Longissimus dorsi Muscle) Transcriptome**

Binghai Cao<sup>1</sup>, Dong Chen<sup>1</sup>, Wufeng Li<sup>1</sup>, mi du<sup>2</sup>, Meng Wu<sup>3</sup>

<sup>1</sup> China Agricultural University, <sup>2</sup> Department of Animal Sciences, Washington State University, USA,

<sup>3</sup> Snowdragon Beef Co., Ltd. China

**PO-05-3 Decontamination of Staphylococcus aureus and Escherichia coli on the Chicken Drumstick Using Ozonated Water, Lactic Acid and Sodium Hypochlorite Solution**

Piyada Tavitchasri<sup>1</sup>, Nualphan Ngamyeesoon<sup>2</sup>, Komkhae Pilasombut<sup>3</sup>

<sup>1</sup> Department of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus, Thailand,

<sup>2</sup> Department of Plant Production Technology, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>3</sup> Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand

**PO-05-4 Effect of injection of pineapple juice on texture and water holding capacity of Japanese Shorthorn beef**

Takayuki Muramoto, Mao Miyazaki, Saki Tezuka

Iwate University

**PO-05-5 Effect of Hibiscus sabdariffa L. (Roselle) Extract on Survival of Pathogenic Bacteria in Ground Pork**

Komkhae Pilasombut<sup>1</sup>, Nualphan Ngamyeesoon<sup>2</sup>

<sup>1</sup> Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>2</sup> Department of Plant Production Technology, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand

**PO-05-6 Effects of different fermentation methods on the quality characteristics of Yezo sika deer (Cervus nippon yesoensis) meat sauce products**

Yasuhiro Funatsu<sup>1</sup>, Yukie Miyauchi<sup>1</sup>, Makoto Kawakami<sup>2</sup>, Hirofumi Hayasaka<sup>3</sup>, Jeng-Huh Yang<sup>4</sup>, Makoto Ishioroshi<sup>1</sup>

<sup>1</sup> Rakuno Gakuen University, <sup>2</sup> Hokkaido Research Organization, <sup>3</sup> Taste & Aroma Strategic Research Institute,

<sup>4</sup> National Chiayi University

**PO-05-7 Aging effect on marination and quality characteristics of vacuum-packed duck breast meat**

Cheorun Jo<sup>1</sup>, Muhammad Khan<sup>1,2</sup>, Hyun Jung Lee<sup>1</sup>, Haelim Lee<sup>1</sup>, Jineon Lee<sup>1</sup>, Hyuncheol Kim<sup>1</sup>, Ki Chang Nam<sup>3</sup>

<sup>1</sup> Department of Agricultural Biotechnology, Seoul National University, Korea,

<sup>2</sup> National Institute of Food Science and Technology, University of Agriculture, Pakistan,

<sup>3</sup> Department of Animal Science and Technology, Suncheon National University, Korea

**PO-05-8 Relationship between cattle breeds and characteristics of soup stock prepared from bovine bone**

Toru Kikuchi<sup>1</sup>, Hiroshi Ishii<sup>1</sup>, Kyu-Ho Han<sup>2</sup>, Michihiro Fukushima<sup>2</sup>, Toru Hayakawa<sup>2</sup>, Kenichiro Shimada<sup>2</sup>

<sup>1</sup>Obihiro Otani Junior College, <sup>2</sup>Obihiro University of Agriculture and Veterinary Medicine

**PO-05-9 Characteristics of restructured steaks made with beef trimming derived from round and neck portions**

Supaluk Sorapakdee, Panita Jungwarawit, Wanchalerm Phruksawan, Nahathai Vijitrotai, Chunya Kongrith

Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand

**PO-05-10 CHEMICAL QUALITY OF SMOKE-TREATED-CHICKEN USING CLOVES BRANCH (*Eugenia aromatica*) LIQUID SMOKE AND SHELF LIFE PREDICTION**

Yusnaini Yusnaini, Ali Hasan Asrul Dedi, Indah Rodianawati

Universitas Khairun

**PO-05-11 CANINE PET FOOD RATION BY USING MECHANICALLY SEPARATED CHICKEN MEAT BYPRODUCT**

Tharanga Dilhani Silva, M. Jagath. A. P. Munasinghe, H. M. B. Gayani Herath

University of Sabaragamuwa Sri Lanka

**PO-05-12 Slaughter traits of yaks raised on sub-Himalayan pastures in western Nepal**

Hiroki Anzai<sup>1</sup>, Manoj Kumar Shah<sup>2</sup>, Mitsumi Nakajima<sup>1</sup>, Takashi Sakai<sup>1</sup>, Kazato Oishi<sup>1</sup>, Hiroyuki Hirooka<sup>1</sup>, Hajime Kumagai<sup>1</sup>

<sup>1</sup>Graduate School of Agriculture, Kyoto University, <sup>2</sup>Nepal Agricultural Research Council

**PO-05-13 Effects of cholesterol supplementation on fat preference in C57black/6 mice and on odour intensity assessed by a human panel**

Keisuke Sasaki, Mika Oe, Michiyo Motoyama, Ikuyo Nakajima

Institute of Livestock and Grassland Science, NARO

**PO-05-14 Effects of "HEBESU" lees as supplemental feed on the meat productivity and meat quality of pigs**

Shin-ichi Takenoyama<sup>1</sup>, Kumiko Kawakita<sup>1</sup>, Tomoko Matsumoto<sup>1</sup>, Masato Kawagoe<sup>1</sup>, Ayaka Nishi<sup>2</sup>, Fumiaki Sugino<sup>2</sup>, Tomoko Tadokoro<sup>2</sup>, Shozo Kosaka<sup>2</sup>, Hirohisa Takasu<sup>3</sup>, Akio Kurogi<sup>4</sup>, Michio Muguruma<sup>1</sup>

<sup>1</sup>Faculty of Health and Nutrition, Minami-kyusyu University, <sup>2</sup>Miyazaki Prefecture,

<sup>3</sup>Hyuga City, <sup>4</sup>JA Hyuga Agricultural Cooperative Association

**PO-05-15 Carcass Characteristics of Hanwoo Steers by Age at Slaughter and Beef Quality Grades**

Jae Kyoung Cheong<sup>1,2</sup>, Tae Sung Kim<sup>1</sup>, Young Kon Park<sup>1</sup>, Jeong Mi Hwnag<sup>1</sup>, Joong Kook Park<sup>1</sup>, Jae Yoon Shim<sup>1</sup>, Ho Nam Choi<sup>1</sup>, Dong Soo Lee<sup>1</sup>, Hyun Seok Yang<sup>2</sup>

<sup>1</sup>Livestock Research Institute, National Agriculture Cooperative Federation, <sup>2</sup>Hoengseong Chuckhyup

**PO-05-16 Influence of a sweetener or a seaweed addition in Japanese deer meat to sensory research**

Maho Yamanaka<sup>1</sup>, Takuji Hirayama<sup>1</sup>, Hideaki Hayashi<sup>2</sup>, Kazuo Katoh<sup>3</sup>, Sang-Gun Roh<sup>3,4,5</sup>, Takuro Oikawa<sup>4</sup>, Keiichi Suzuki<sup>5</sup>

<sup>1</sup>School of Environmental Science, University of Shiga Prefecture,

<sup>2</sup>School of Veterinary Medicine, University of Rakuno Gakuen,

<sup>3</sup>Department of Animal Physiology, Tohoku University,

<sup>4</sup>Faculty of Agriculture, University of the Ryukyus,

<sup>5</sup>Division of Functional and Developmental Science of Livestock Production, Tohoku University

**PO-05-17 Comparisons of lipid characteristics and palatability of Wagyu produced in four representative production areas in Japan**

Mitsuharu Ishida<sup>1</sup>, Ryo Sasaki<sup>1</sup>, Yoshito Suda<sup>1</sup>, Yo Morimoto<sup>2</sup>, Keisuke Kawada<sup>2</sup>, Hiroshi Uchida<sup>2</sup>, Tatsushi Inoue<sup>1</sup>

<sup>1</sup> School of Food, Agricultural and Environmental Sciences, Miyagi University, <sup>2</sup> Oshu City Cattle Museum

**PO-05-18 Meatball quality is affected by the addition of black garlic powder**

Xin-Yi Lin, Rong-Shinn Lin

National Ilan University

**PO-05-19 Diversity of microbiota in vegetable-based and meat-based fermented foods produced in Hue, the middle of Vietnam**

Naoki Nishino<sup>1</sup>, Thi Ngoc Yen Phan<sup>1</sup>, Thuy Minh Tang<sup>1</sup>, Thi Minh Tu Tran<sup>1</sup>, Takeshi Tsuruta<sup>1</sup>, Gaowa Bai<sup>1</sup>, Huu Van Nguyen<sup>2</sup>, Hien Trang Nguyen<sup>2</sup>

<sup>1</sup> Okayama University, <sup>2</sup> Hue University of Agriculture and Forestry

**PO-05-20 Stimuli from feed for sham-dustbathing in caged laying hens**

Yuko Moroki, Toshio Tanaka

Graduate School of Veterinary Science, Azabu University

**PO-05-21 Comparison of grazing behavior of Suffolk and Paul Dorset ewes in a less-favored area**

Toshio Tanaka, Yusuke Watanabe, Katsuji Uetake

Azabu University School of Veterinary Medicine

**PO-05-22 Changes in sleeping time of beef cows after moving into a new environment**

Michiru FUKASAWA, Yumi HiGASHIYAMA, Tokushi KOMATSU

Tohoku Agricultural Research Center, NARO

**PO-05-23 Social behavior of grazing cattle from different farmers in abandoned paddy field**

Yoshitaka Deguchi<sup>1</sup>, Yumi Higashiyama<sup>2</sup>, Mamoru Nashiki<sup>3</sup>, Tomohiro Kumagai<sup>1</sup>, Ikuko Shimamoto<sup>1</sup>, Ayako Arakawa<sup>1</sup>

<sup>1</sup> Iwate University, <sup>2</sup> Tohoku Agricultural Research Center, NARO,

<sup>3</sup> Japan Grassland Agriculture and Forage Seed Association

**PO-05-24 The visiting pattern of cows to an automatic milking unit with a different cow traffic systems**

Shigeru Morita, Narumi Tomita, Takahisa Nodagashira, Mana Kato, Shinji Hoshiba, Michio Komiya, Keiji Takahashi

Rakuno Gakuen University

**PO-05-25 Effects of Dietary Coenzyme Q10 on the transfer into egg yolk and antioxidant system in laying hens**

In-Surk Jang, Yang-Soo Moon

Gyeongnam National University of Science and Technology

**PO-05-26 Selection of ammonia reduction microbe stock for pigs and poultry**

Takeshi Onoue<sup>1</sup>, Tomoko Shimokawa<sup>2</sup>, Satoko Yamashita<sup>3</sup>, Yoshitomo Kusaka<sup>3</sup>, Minoru Maeda<sup>2</sup>, Hiroyuki Saito<sup>3</sup>, Kenichi Asada<sup>1</sup>

<sup>1</sup> Fukuoka Agriculture and Forestry Research Center, <sup>2</sup> Kyushu Medical Co. Lt,

<sup>3</sup> Fukuoka Industrial Technology Center Biotechnology and Food Research Institute

**PO-05-27 Methane production from rumen and feces of Madura cattle receiving different level feeding**

Agung Purnomoadi, Khanza Syahira Dhia, Tegar Wicaksono, Vita Restitrisnani, Christina Maria Sri Lestari

Diponegoro University, Faculty of Animal and Agricultural Sciences

**PO-05-28 Greenhouse gas emissions and manure management from dairy production in Thailand**

Sutida Onsongchun<sup>1</sup>, Kalaya Boonyanuwat<sup>2</sup>

<sup>1</sup>Dairy Research and Development sector, Bureau of Animal Husbandry and Genetic Improvement, Department of Livestock Development Ratchathevi, Thailand,

<sup>2</sup>Biodiversity Research sector Bureau of Animal Husbandry and Genetic Improvement, Department of Livestock Development Ratchathevi, Thailand

**PO-05-29 Study of mortality rate and causes of stranding in stranded marine endangered species in eastern of gulf of Thailand In October, 2014 –June, 2015**

Poommate Chomchat, Chalatip Chanchompu, Sakda Inanu, Chatchai Penpien

Marine and Coastal Resources Research and Development Center the Eastern Gulf of Thailand

**PO-05-30 Chemical Composition of Litter of Thai Wild Boar Kept In A Deep – Litter Pig Production System**

Phoowadon Prapruetdee, Thiamphop Kanloun

King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus

**PO-05-31 Time budgets of dairy cows in three commercial tied-stall dairy farms in Japan**

Chikako Yoshida<sup>1</sup>, Mizuki Fukushima<sup>2</sup>, Chisato Minagawa<sup>3</sup>, Wakana Takahashi<sup>3</sup>

<sup>1</sup>Field Center for Sustainable Agriculture and Forestry, Niigata University,

<sup>2</sup>Faculty of Agriculture, Niigata University, <sup>3</sup>Graduate School of Science and Technology, Niigata University

**PO-05-32 Flight Distance of Japanese Black Beef Cows in Iriai Grazing System**

Hidetoshi Kakihara<sup>1</sup>, Chiemi Sata<sup>2</sup>, Reiko Ishiwaka<sup>3</sup>, Yasuhisa Masuda<sup>4</sup>, Jun Tanoue<sup>1</sup>, Yutaka Nakano<sup>1</sup>, Masataka Shimojo<sup>1</sup>

<sup>1</sup>Faculty of Agriculture, Kyushu University, <sup>2</sup>Kumamoto Prefectural Agricultural Research Center,

<sup>3</sup>Faculty of Agriculture, University of Miyazaki, <sup>4</sup>Kuju Grassland Ecomuseum

**PO-05-33 Behaviour of a cow and pigs at the simultaneous grazing in an abandoned field**

Haruka Yamano, Shion Yoshida, Miku Hyodo, Seiichi Koizumi, Shinichi Kobayashi

College of Bioresource Sciences, Nihon University

**PO-05-34 Comparative study on people's attitudes towards relation between human and companion animals in Japan, Indonesia, the UK and Australia**

Feiran Wang<sup>1</sup>, Takumi Tokida<sup>1</sup>, Kazuhiro Miyagawa<sup>1</sup>, Windi al zahra<sup>2</sup>, Richard Cooke<sup>3</sup>, Michael Calver<sup>4</sup>, Seiichi Koizumi<sup>1</sup>, Shinichi Kobayashi<sup>1</sup>

<sup>1</sup>College of Bioresource Sciences, Nihon University, <sup>2</sup>Bogor Agricultural University, <sup>3</sup>Writtle College,

<sup>4</sup>Murdoch University

**PO-05-35 Evaluation of the efficacy of image processing to detect mounting estrus in cattle**

Ikuo Kobayashi<sup>1</sup>, Koichi Shimada<sup>2</sup>, Tin Pyke<sup>2</sup>, Hideki Kai<sup>2</sup>, Yuki Nakagawa<sup>1</sup>, Koichiro Hemmi<sup>1</sup>, Genki Ishigaki<sup>1</sup>, Kiichi Fukuyama<sup>1</sup>, Zin Thi Thi<sup>1</sup>

<sup>1</sup>Sumiyoshi Livestock Science Station, University of Miyazaki,

<sup>2</sup>Department of Electrical and Systems Engineering, University of Miyazaki

**PO-05-37 Productive Performance, Nutrient Digestibility, and White Blood Cells of Lactating Sows Fed Palm Kernel Expellers**

Junsu Kim<sup>1</sup>, Sheena Kim<sup>1</sup>, Jeong Jae Lee<sup>1</sup>, Yoontack Jang<sup>1</sup>, Kibeom Jang<sup>1</sup>, Byeonghyeon Kim<sup>1</sup>, Sangwoo Park<sup>1</sup>, Younghwa Kim<sup>2</sup>, Juncheol Park<sup>2</sup>, Younghoon Kim<sup>3</sup>, Minho Song<sup>1</sup>

<sup>1</sup>Department of Animal Science and Biotechnology, Chungnam National University, Korea,

<sup>2</sup>National Institute of Animal Science, Rural Development Administration, Korea,

<sup>3</sup>Department of Animal Science, Chonbuk National University, Korea

**PO-05-38 Residual impact of stress factors that newborn calves suffer just after birth**

Katsuji Uetake<sup>1</sup>, Shinji Hashimura<sup>2</sup>, Nobutada Sakagami<sup>2</sup>, Toshio Tanaka<sup>1</sup>

<sup>1</sup>Azabu University School of Veterinary Medicine,

<sup>2</sup>Kanagawa Prefectural Livestock Industry Technology Center

**PO-05-39 Tail based pulse rate meter**

Kazuhuro Umemura<sup>1</sup>, Yutaka Terada<sup>2</sup>

<sup>1</sup> Hokkaido Agricultural Research Center, <sup>2</sup> National Institute of Animal Health

**PO-05-40 Motion analysis of dairy cow sleep posture**

Shigeru Ninomiya<sup>1</sup>, Go Horii<sup>1</sup>, Yasunari Yokota<sup>2</sup>

<sup>1</sup> Gifu University, Faculty of Applied Biological Science, <sup>2</sup> Gifu University, Faculty of Engineering

**PO-05-41 Effect of playing installation on productive performances of Hanwoo steers**

Gie Won Kim<sup>1</sup>, Ka Young Yang<sup>1</sup>, Jae Jung Ha<sup>2</sup>, Yong Han Song<sup>1</sup>

<sup>1</sup> College of Animal Life Science, Kangwon National University, <sup>2</sup> Gyeongsangbuk-do Livestock Research Institute

**PO-05-42 Precise ear posture analysis by 3 DLT method and the relationships with the heart rate responses in cattle.**

Daisuke Kohari, Tsuyoshi Okayama, Yoshitsugu Takahashi, Shuhei Kanbayashi, Tsuyoshi Michikawa

College of agriculture, Ibaraki University

**PO-05-43 The Effects of Aprotinin to Swine Influenza Virus Infection in Differentiated Intestinal Epithelial Cells**

Darsaniya Punyadarsaniya, Watchanee Mahaboonpachai, Tippawan Jantafong, Sittichon Rattanachan, Sakchai Ruenphet

Virology and Immunology Department, Faculty of Veterinary Medicine, Mahanakorn University of Technology, Thailand

**PO-05-44 The Evaluation of Homologous and Heterologous of Serum Neutralization against Newcastle Disease Virus using Vaccinated Chicken Sera**

Tippawan Jantafong<sup>1</sup>, Darsaniya Punyadarsaniya<sup>1</sup>, Katsushige Takahashi<sup>2</sup>, Kazuaki Takehara<sup>3</sup>, Sakchai Ruenphet<sup>1</sup>

<sup>1</sup> Immunology and Virology Department, Faculty of Veterinary Medicine, Mahanakorn University of Technology, Thailand,

<sup>2</sup> R&D Department, Kyoritsu Seiyaku Corporation, Japan,

<sup>3</sup> Animal Health Laboratory, Department of Veterinary Medicine, Faculty of Agriculture, Tokyo University of Agriculture and Technology, Japan

**PO-05-45 Monitoring Program for an Early Diagnosis of Ketosis Using Test Day in Holstein Dairy Cattle**

Kyung-Do Park<sup>1</sup>, Kwang-Hyun Cho<sup>2</sup>

<sup>1</sup> Chonbuk National University, <sup>2</sup> National Institute of Animal Science, RDA

**PO-05-46 Growth Performance, Nutrient Digestibility, and Blood Profiles of Weaned Pigs from Lactating Sows Fed Palm Kernel Expellers**

Sheena Kim<sup>1</sup>, Junsu Kim<sup>1</sup>, Jeong Jae Lee<sup>1</sup>, Yoontack Jang<sup>1</sup>, Kibeom Jang<sup>1</sup>, Byeonghyeon Kim<sup>1</sup>, Sangwoo Park<sup>1</sup>, Younghwa Kim<sup>2</sup>, Juncheol Park<sup>2</sup>, Younghoon Kim<sup>3</sup>, Minho Song<sup>1</sup>

<sup>1</sup> Department of Animal Science and Biotechnology, Chungnam National University, Korea,

<sup>2</sup> National Institute of Animal Science, Rural Development Administration, Korea,

<sup>3</sup> Department of Animal Science, Chonbuk National University, Korea

**PO-05-47 Development of portable near-infrared(NIR) instruments for rapid and easy measurement of some blood components in cattle.**

Yutaka Terada<sup>1</sup>, Akifumi Ikehata<sup>1</sup>, Xuan Luo<sup>1</sup>, Kunio Sashida<sup>2</sup>, Shanji Piao<sup>2</sup>, Tsutomu Okura<sup>2</sup>

<sup>1</sup> National Agriculture and Food Research Organization, <sup>2</sup> Soma Optics, Ltd.

**PO-05-48 Biocontrol of Animal Pathogens by Lactic Acid Bacteria**

Khakhanang Ratananikom<sup>1</sup>, Nunthiya Suwanpanya<sup>2</sup>, Yupaporn Khannalao<sup>1</sup>, Tanitpan Pongjongmit<sup>2</sup>, Sarayut Srirrot<sup>1</sup>

<sup>1</sup> Department of Science and Mathematics, Faculty of Agro-Industrial Technology, Kalasin University,

<sup>2</sup> Department of Animal Production Technology, Faculty of Agro-Industrial Technology, Kalasin University

**PO-05-49 Analysis of acceleration data on the neck band around the calving in dairy cows**

Yasushi Chida<sup>1,2</sup>, Yoshitaka Deguchi<sup>3</sup>, Toshihiko Takahashi<sup>4</sup>, Shizu Koshikawa<sup>5</sup>, Takahiro Ito<sup>5</sup>, Toshitaka Fujiwara<sup>5</sup>, Hiroyoshi Chiba<sup>6</sup>, Keiji Okada<sup>6</sup>

<sup>1</sup>Bycen Inc., <sup>2</sup>Konan University FRONT, <sup>3</sup>Iwate University Department of Animal Science,

<sup>4</sup>Iwate Agricultural Research Center Animal Industry Research Institute,

<sup>5</sup>Rakuno Gakuen University Department of Sustainable Agriculture,

<sup>6</sup>Department of Sustainable Agriculture Department of Veterinary Medicine

**PO-05-50 OPTIMIZE OF VEGETATIVE CONSERVATION MODEL FOR SUPPORT POOR FARMERS AGRICULTURAL SUSTAINABLE IN WEST TIMOR**

Helena Dasilva

East Nusa Tenggara Assessment Institute for Agricultural Technology

**PO-05-51 THE APPLICATION OF SCIENCE AND TECHNOLOGY THROUGH UTILIZATION WASTE OF CORN AS LOCAL CATTLE FEED IN SUBDISTRICT SANGKUB**

Femi Elly<sup>1</sup>, Artise HS Salendu<sup>1</sup>, Charles L Kaunang<sup>1</sup>, Indriana Indriana<sup>2</sup>, Syarifuddin Syarifuddin<sup>3</sup>, Zulkam Pohuntu<sup>4</sup>, Syarifudin Pontoh<sup>4</sup>

<sup>1</sup>University of Sam Ratulangi, Faculty of Animal Husbandry, <sup>2</sup>University of Ichsan, Indonesia,

<sup>3</sup>BP3K, Indonesia, <sup>4</sup>PEMDA, Indonesia

**PO-05-52 DEVELOPMENT OF AGRIBUSINESS FOR FARMING OF NATIVE CHICKEN IN THE SUBDISTRICT OF SOUTH KOTAMOBAGU**

Jolanda Kalangi, TFD Lumy, JC Loing, LS Kalangi, J Kalele

Faculty of Animal Husbandry University of Sam Ratulangi

**PO-05-53 BENEFIT OF INTEGRATION CATTLE-CORN FARMING IN SANGKUB SUBDISTRICT**

ML Rundengan, B Rorimpandey, EKM Endoh, SOB Lombogia, MAV Manese

Faculty of Animal Husbandry University of Sam Ratulangi

**PO-05-54 Effect of days from calving to first insemination on conception rate during the first three lactations of Japanese Holstein cows**

Takeshi Yamazaki<sup>1</sup>, Koichi Hagiya<sup>2</sup>, Hisato Takeda<sup>3</sup>, Shigeki Yamaguchi<sup>4</sup>, Takefumi Osawa<sup>5</sup>, Yoshitaka Nagamine<sup>6</sup>

<sup>1</sup>Hokkaido Agricultural Research Center, NARO, <sup>2</sup>Obihiro University of Agriculture and Veterinary Medicine,

<sup>3</sup>Institute of Livestock and Grassland Science, NARO, <sup>4</sup>Livestock Improvement Association of Japan,

<sup>5</sup>National Livestock Breeding Center, <sup>6</sup>Nihon University

**PO-05-55 DEVELOPMENT FOR CATTLE UNDER COCONUT TREE BASED ON THE ENVIRONMENT IN THE DISTRICT OF SOUTH KOTAMOBAGU**

AHS Salendu, IDR Lumenta, FSG Oley, RFEM Osak

Faculty of Animal Husbandry University of Sam Ratulangi

**PO-05-56 EMPOWERMENT FOR FARMERS GROUP OF CATTLE FARMING IN THE TONSEWER VILLAGE**

AK Rintjap, A Makalew, JKJ Kalangi, GD Lenzun, BFJ Sondakh, HO Gijoh

Faculty of Animal Husbandry University of Sam Ratulangi

**PO-05-57 DEVELOPMENT OF ORGANIC FERTILIZER OF WASTE CATTLE IN THE REGENCY OF NORTH BOLAANG MONGONDOW**

IDR Lumenta<sup>1,2</sup>, I Wahyuni<sup>1</sup>, FH Elly<sup>1</sup>, Syarifuddin Syarifuddin<sup>2</sup>, SJK Umboh<sup>1</sup>

<sup>1</sup>Faculty of Animal Husbandry University of Sam Ratulangi, <sup>2</sup>BP3K, Indonesia

**PO-05-58 Free-Grazing spent layer duck value chains in Vietnam: Implication for Avian Influenza control**

Tung Dinh Xuan<sup>1</sup>, Tuan Han Anh<sup>1</sup>, Duc Do Van<sup>1</sup>, Thu Nhu Van<sup>1</sup>, Meyer Anne<sup>2</sup>, Vergne Timothée<sup>2</sup>

<sup>1</sup>National Institute of Animal Sciences, Vietnam,

<sup>2</sup>Royal Veterinary College (RVC) in London, United Kingdom

**PO-05-60 A Comparison of Consumer Acceptability of Loin Steaks from Crossbred Fattening Pigs Derived from Pakchong 5 Boar and Commercial Boars**

Ronachai Sitthigripong<sup>1</sup>, Rutcharin Limsupavanich<sup>1</sup>, Sawankamol Noidad<sup>1</sup>, Rachakrits Lertpatarakomol<sup>1</sup>, Kamon Chaweewan<sup>3</sup>, Chanporn Chaosap<sup>2</sup>

<sup>1</sup> Department of Animal Production Technology and Fisheries, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>2</sup> Department of Agricultural Education, Faculty of Industrial Education, King Mongkut's Institute of Technology Ladkrabang, Thailand,

<sup>3</sup> Department of Livestock Development, Thailand

**PO-05-61 Effect of farming activity included horticulture and interacting with domestic animals on person with mental disorders**

Takeshi Yasue<sup>1,3</sup>, Nozomi Sakamoto<sup>1</sup>, Masakazu Komatsuzaki<sup>1,3</sup>, Hikari Shimonish<sup>3</sup>, Yuriko Yamakawa<sup>2,3</sup>, Daisuke Kohari<sup>1,3</sup>, Tsuyoshi Okayama<sup>1,3</sup>, Seiichi Sasaki<sup>2,3</sup>, Atsushi Toyoda<sup>1,3</sup>

<sup>1</sup> Ibaraki University, School of Agriculture,

<sup>2</sup> Ibaraki Prefectural University of Health Sciences, Center for Medical Sciences,

<sup>3</sup> Ibaraki University Cooperation between Agriculture and Medical Science

**PO-05-62 Marketability of eating crow meat and receptivity to its taste**

Naoki Tsukahara<sup>1</sup>, Misaki Hayama<sup>2</sup>, Ryo Ohtsuka<sup>2</sup>, Mamiko Shichida<sup>1</sup>, Takeyuki Ozawa<sup>2</sup>

<sup>1</sup> SOKENDAI, <sup>2</sup> Nippon Veterinary and Life Science University

**PO-05-63 Acceptability of sex-sorted embryos in Japan: A comparative case study between pastoral and suburban regions**

Takeyuki Ozawa, Masahiro Osada, Azusa Machida, Ai Miyano, Hitoshi Ushijima

Nippon Veterinary and Life Science University

**PO-05-64 Study of extension services of academic people on animal production in Taiwan**

Hsiu Chu Lee, Liang Chou Hsia

National Pingtung University of Science and Technology

**PO-05-65 Reduced omega 6:3 fatty acids ratio decreased the incidence of diarrhea but improved growth performance in weaner pigs**

Jung Min Heo, Samiru Sudharaka Wickramasuriya, Eunjoo Kim, Taeg Kyun Shin, Nuri Kim, Hyun Min Cho, Young Hwa Kim, Jun Cheol Park, Soo Kee Lee

Chungnam National University

**PO-05-66 Decreased adiponectin gene expression in subcutaneous adipose tissue of genetically high backfat pigs**

Ikuyo Nakajima, Misaki Kojima, Mika Oe, Koichi Ojima, Susumu Muroya, Koichi Chikuni

Institute of Livestock and Grassland Science, NARO

**PO-05-67 Measurement of Rib Eye Area and Backfat Thickness of Kamphaeng Saen Beef Carcass by Using a Computer Program**

PEERAYUT NILCHUEN<sup>1</sup>, Surachai Piamkhla<sup>2</sup>, Sasitorn Nakthong<sup>3</sup>

<sup>1</sup> Tubkwang Research Station, Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand,

<sup>2</sup> KU Kamphaeng Saen Campus Beef Producer Cooperative Ltd., Kasetsart University, Kamphaeng Saen Campus, Thailand,

<sup>3</sup> Department of Animal Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University, Kamphaeng Saen Campus, Thailand

**PO-05-68 IMPACTS OF CHANGE FROM CATTLE FREE GRAZING TO GROWING AND INTENSIVE FEEDING OF LEUCAENA LEUCOCEPHALA IN EAST NUSA TENGGARA, INDONESIA**

Debora Kana Hau

East Nusa Tenggara Assessment Institute for Agriculture Technology

**PO-05-69 Carcass Traits and Tenderness of Grass-fed Beef from Subtropical Pastures in Hawaii**

Yong Soo Kim, Glen Fukumoto, Matthew Stevenson, Mark Thorne, Rajesh Jha

Department of Human Nutrition, Food and Animal Sciences, University of Hawaii

**PO-05-70 Effects of grazing on meat quality of Japanese Shorthorn cattle under complete grass-fed beef production system**Hideki Ogasawara<sup>1</sup>, Yumiko Suzuki<sup>1</sup>, Tatsuyuki Takahashi<sup>1</sup>, Yutaka Ono<sup>1</sup>, Kazuyo Okayama<sup>2</sup>, Masayuki Hojito<sup>1</sup><sup>1</sup> Kitasato University School of Veterinary Medicine, <sup>2</sup> Kitasato Junior College of Health and Hygienic Science**PO-05-71 The application of ultrasound to enhance the prediction accuracy of artificial insemination and laboring in Holstein.**

Chao-Yang Chen, Shao-Yu Peng

National Pingtung University of Science and Technology

**PO-05-72 EFFECT OF CLASSICAL MUSIC ON MILK PRODUCTION AND MILK COMPOSITION OF HOLSTEIN COWS**Bagus Priyo Purwanto<sup>1</sup>, M Guselanes<sup>2</sup>, Rosianne<sup>2</sup>, Natalia Nopika<sup>2</sup>, Andi Murfi<sup>1</sup><sup>1</sup> Vocational School - Bogor Agricultural University (IPB),<sup>2</sup> Dept. of Animal Production - Bogor Agricultural University (IPB)**PO-05-73 Relationships between Rumen Acidosis, Energy Balance and Some Antioxidants, and Subclinical Mastitis in Postpartum Dairy Cows**Chaiwat Jarassaeng<sup>1</sup>, Suneerat Aiumlamai<sup>1</sup>, Chalong Wachirapakorn<sup>2</sup>, Jos Noordhuizen<sup>3</sup><sup>1</sup> Department of Surgery and Theriogenology, Faculty of Veterinary Medicine, Khon Kaen University, Thailand,<sup>2</sup> Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,<sup>3</sup> School of Agricultural and Wine Sciences, Charles Sturt University, Australia**PO-05-75 Prevented effects of synbiotics-Probio-A on atopic dermatitis murine model**Chang-Chi Hsieh<sup>1</sup>, Min-Ruei Syu<sup>1</sup>, Chia-Hao Hsu<sup>1</sup>, Chuan-Ching Lan<sup>2</sup>, Chun-Chih Huang<sup>2</sup><sup>1</sup> Department of Animal Science and Biotechnology, Tunghai University, Taiwan,<sup>2</sup> New Bellus Enterprises CO., LTD., Taiwan**PO-05-76 Association of fat protein ratio and non-genetic factors on Milk  $\beta$  - Hydroxybutyric Acid and Acetone Levels in Holstein Cattle**Umanthi Ranaraja<sup>1</sup>, Jisu Lee<sup>1</sup>, HyunSeong Kim<sup>1</sup>, DongUk Kim<sup>1</sup>, ChangHee Do<sup>1</sup>, KwangHyun Cho<sup>2</sup>, TaeJung Choi<sup>2</sup>, SiDong Kim<sup>2</sup>, Mina Park<sup>2</sup><sup>1</sup> Div. of Animal and Dairy Science, Chungnam National University,<sup>2</sup> National Institute of Animal Science, RDA, Korea**PO-05-77 Preliminary comparison of the fecal microbial profile between low- and high-yielding dairy cows**Chang Mu-Tzu<sup>1</sup>, Huang Chien-Hsun<sup>2</sup>, Chen Kuo-Lung<sup>1</sup>, Wu Chean-Ping<sup>1</sup><sup>1</sup> Department of Animal Science, National Chiayi University, Taiwan,<sup>2</sup> Bioresource Collection and Research Center, Food Industry Research and Development Institute, Taiwan**PO-05-78 Phytanic acid and pristanic acid contents in milk and dairy products originated from Japan and European countries**Ryoji Suzuki<sup>1</sup>, Tomonori Nakanishi<sup>2</sup>, Yoh-ichi Matsushita<sup>3</sup>, Satoshi Kawahara<sup>2,4</sup><sup>1</sup> Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki,<sup>2</sup> Faculty of Agriculture, University of Miyazaki, <sup>3</sup> Faculty of Engineering, University of Miyazaki,<sup>4</sup> Center for Animal Disease Control, University of Miyazaki

**PO-05-79 Influence of environmental temperature on the measurement of udder surface temperature in Holstein cows using Infrared Thermometer**

Yuki Nakagawa, Nassary Nooragha, Orya Rafiullah, Hiromichi Tsuruhara, Yasuhiro Udatsu, Genki Ishigaki, Kiichi Fukuyama, Ikuo Kobayashi

Sumiyoshi Livestock Science Station, University of Miyazaki

**PO-05-80 Factors affecting fleece characteristics of wool sheep in Thailand**

SUWIT ANOTHASINTHAWEE<sup>1</sup>, SURASAK SOPONCHIT<sup>2</sup>

<sup>1</sup> Bureau of Animal Husbandry and Genetic Improvement, DLD,

<sup>2</sup> Mae-Hong-Son Livestock Breeding and Testing Station

**PO-05-81 The Akita-improved rabbit variety: Current status and problems of its farming in Japan, and possible strategies for sustenance**

Kiyonori Kawasaki<sup>1</sup>, Akihiro Hori<sup>1</sup>, Kiminobu Yano<sup>2</sup>

<sup>1</sup> Laboratory of Animal Nutrition, Bioresource Production Science, Faculty of Agriculture, Kagawa University, Japan,

<sup>2</sup> University Farm, Faculty of Agriculture, Kagawa University, Japan

**Poster Session 06**

Thursday, 25 August 14:00-16:00 Room Circle Hall

**PO-06-1 BODY WEIGHT AND GENETIC COMPARISONS IN THAI NATIVE, BLACK-BONE HMONG AND BLACK-BONE CHINESE CHICKENS**

Wuttigrai Boonkum, Sungkhapreecha Piriyaorn, Duangjinda Monchai, Laopaiboon Banyat, Vongpralub Thevin

Research and development network center for animal breeding (native chicken), Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand

**PO-06-2 Identification of Pig Carcass and Meat Quality Associated SNP Markers by Combining Microarray and Lab-on-a-Chip for Breeding**

Yen-Wen Lu<sup>1</sup>, Yu-Tsung Lin<sup>1</sup>, Ling-Ling Lo<sup>3</sup>, Pei-Hwa Wang<sup>2</sup>

<sup>1</sup> Department of Bio-Industrial Mechantronics Engineering, National Taiwan University,

<sup>2</sup> Department of Animal Science, National Taiwan University,

<sup>3</sup> Department of Animal Science, Chinese Culture University

**PO-06-3 Estimation of Genetic Parameters of Grey Brahman Cattle in Thailand Environment**

Aunchalee Juahom<sup>1</sup>, Yaowaluck Leepaijit<sup>2</sup>, Sansak Nakavisut<sup>3</sup>

Department of Livestock Development

**PO-06-4 Improvement of Carcass Characteristics of Thai Pigs by Crossbreeding with Wild Boars**

Pongchan Na-Lampang

School of Animal Production Technology, Suranaree University of Technology

**PO-06-5 Effect of heat stress on milk production traits of Holstein in Okinawa**

Aruba Ikejiri<sup>1</sup>, Takuji Hirayama<sup>2</sup>, Takuro Oikawa<sup>1</sup>

<sup>1</sup> Faculty of Agriculture, University of the Ryukyus, <sup>2</sup> School of Environmental Science, University of Shiga Prefecture

**PO-06-6 Effects of type traits on longevity in a Holstein herd in Hokkaido, Japan.**

Yoshinori Terawaki, Takahiro Kawagishi

Rakuno Gakuen University

**PO-06-7 Genetic evaluation for the farmer-reported mastitis incidence or Holsteins in Hokkaido, Japan**

Satoshi Yamaguchi<sup>1</sup>, Yutaka Masuda<sup>2</sup>, Yuusaku Gotoh<sup>3</sup>, Toshimi Baba<sup>3</sup>, Satoshi Nakagawa<sup>1</sup>, Hayato Abe<sup>1</sup>, Takayoshi Kawahara<sup>3</sup>

<sup>1</sup> Hokkaido dairy milk recording and testing association, <sup>2</sup> University of Georgia,

<sup>3</sup> Holstein cattle association of Japan Hokkaido Branch

**PO-06-8 THE ESTIMATION OF HERITABILITY AND REPEATABILITY OF BIRTH WEIGHT AND WEANING WEIGHT OF HANWOO**

Seung Hee Roh<sup>1</sup>, Chang Yeup Kim<sup>1</sup>, Sung Soo Lee<sup>1</sup>, Byoung Ho Park<sup>2</sup>, Te Jeong Choi<sup>2</sup>, Lee Jung Gyu<sup>3</sup>

<sup>1</sup>Hanwoo Improvement Center, NACF, <sup>2</sup>National Institute of Animal Science, RDA,

<sup>3</sup>GyeongSang National University

**PO-06-9 Genetic and economic evaluation of Tak synthetic beef cattle breeding schemes**

Wutipong Intaratham, Koonlapat Photikanit, Chalermchai Chantasorn

Department of Livestock Development

**PO-06-10 Genetic relationships among birth body weight, body measurements and conception rate in Japanese Black cattle**

Keiichi Inoue, Masahiko Hosono, Masatsugu Asada

National Livestock Breeding Center

**PO-06-11 Genetic parameters and estimated breeding value of growth traits in Tak synthetic beef cattle**

Yaowaluck Leephajit, Aunchalee Juehom, Wutipong Intaratham

Department of Livestock Development

**PO-06-12 Construction of Reference Population for Genomic Selection in Hanwoo**

Woo Young Jung<sup>1</sup>, Chang Yeup Kim<sup>1</sup>, Seung Hee Roh<sup>1</sup>, Jin Ho Kim<sup>1</sup>, Sung Soo Lee<sup>1</sup>, Byoung Ho Park<sup>2</sup>, Boh Suk Yang<sup>2</sup>, Youg Min Cho<sup>2</sup>, Jun Heon Lee<sup>3</sup>

<sup>1</sup>Hanwoo Improvement Center, National Agricultural Cooperative Federation,

<sup>2</sup>National Institute of Animal Science, RDA,

<sup>3</sup>Division of Animal and Dairy Science, Chungnam National University

**PO-06-13 Association of WUR SNP with Production Traits in Duroc pigs**

Kang Seok Seo<sup>1</sup>, Bryan Irvine Lopez<sup>1</sup>, Choi Kyu Park<sup>2</sup>, Vanessa Viterbo<sup>1</sup>, Milton Tinashe Makumbe<sup>1</sup>

<sup>1</sup>Sunchon National University, <sup>2</sup>Kyungpook National University

**PO-06-14 EFFECTS OF BREED, SEX, AND FARM ON CARCASS AND MEAT QUALITY TRAITS IN PUREBRED PIGS**

Ling-Ling Lo, Ting-Chia Chiang, Wan-Chen Chang, Hsing-Hao Chen

Department of Animal Science, Chinese Culture University, Taiwan

**PO-06-15 Factors Associated with Mummified Fetuses in Yorkshire and Landrace Sows**

Sung Hoon Kim<sup>1</sup>, Bryan Irvine Lopez<sup>2</sup>, Vanessa Viterbo<sup>2</sup>, Tae Hun Kim<sup>2</sup>, Kang Seok Seo<sup>2</sup>, Heebal Kim<sup>3</sup>

<sup>1</sup>Pig Gene Korea, <sup>2</sup>Sunchon National University, <sup>3</sup>Seoul National University

**PO-06-16 Validation reliability of single-step genomic prediction using a multiple-lactation random regression test-day model in Japanese Holsteins**

Toshimi Baba<sup>1</sup>, Yusaku Gotoh<sup>1</sup>, Satoshi Yamaguchi<sup>2</sup>, Hayato Abe<sup>2</sup>, Satoshi Nakagawa<sup>2</sup>, Yutaka Masuda<sup>3</sup>, Takayoshi Kawahara<sup>1</sup>

<sup>1</sup>Holstein Cattle Association of Japan, Hokkaido Branch, <sup>2</sup>Hokkaido Dairy Milk Recording and Testing Association,

<sup>3</sup>University of Georgia

**PO-06-17 Estimation of Gentic Parameters for Carcass Traits and Ultrasound Measurement Traits in Hanwoo**

J.S SHIN, C.Y KIM, Y.H KIM, S.H RHO, W.Y JUNG, C.I CHO

Cattle Genetic Improvement Center, NACF

**PO-06-19 Genetic Parameter Estimation for Weight Traits of Goat Populations in Thailand**

Jongrat Poomkhokrak, Aunchalee Juahom, Sansak Nakavisut

Department of Livestock Development

**PO-06-20 Genetic Variation of MSTN, TGF-  $\beta$  3 and PIT1 Gene in Thai Native Chicken**

Sajee Kunhareang<sup>1,2</sup>, Thongsa Buasook<sup>2</sup>, Monchai Duangjinda<sup>1,2</sup>, Bayat Laopaiboon<sup>2</sup>, Yupin Phasuk<sup>1,2</sup>

<sup>1</sup>Department of animal science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup>Research and Development Network Center for Animal Breeding (Native Chicken), Khon Kaen University, Thailand

**PO-06-21 Effect of Presence of Horns after Insufficient Dehorning on Beef Damage, Marbling Score and Carcass Weight in Japanese Black Cattle**

Koichiro Hemmi, Ikuo Kobayashi, Iwashita Yuki, Matsushita Minori, Sasaki Miyako, Fukuyama Kiichi

Sumiyoshi Livestock Science Station, University of Miyazaki

**PO-06-22 Most Probable Producing Ability of Bali Cows for Calving Interval and Calf Growth Performance**

Andoyo Supriyantono, Onesimus Yoku, Trisiwi Widayati, Iriani Sumpe

University of Papua

**PO-06-23 Effects of Sex-linked Dwarf Gene on the Growth and Egg Production Traits in Taiwan Country Breeders**

Chih-Feng Chen<sup>1,2</sup>, Chien-Ru Wu<sup>1</sup>, Tsung-Che Tu<sup>1</sup>

<sup>1</sup>Department of Animal Science, National Chung Hsing University, Taiwan,

<sup>2</sup>Center for the integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University, Taiwan

**PO-06-24 Number of sire and dam on genetic response of growth trait in Thai native chicken**

Wootichai Kenchaiwong<sup>1,2</sup>, Monchai Duangjinda<sup>1,2</sup>, Banyat Laopaiboon<sup>1,2</sup>, Pitcharat Sanchaisuriya<sup>1,2</sup>

<sup>1</sup>Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

<sup>2</sup>Research and Development Network Center for Animal Breeding, Khon Kaen University, Thailand

**PO-06-25 Genetic evaluation for selection with constraints and its geometrical interpretation**

Masahiro Satoh<sup>1</sup>, Kazuo Ishii<sup>2</sup>

<sup>1</sup>Graduate School of Agricultural Science, Tohoku University,

<sup>2</sup>Institute of Livestock and Grassland Science, NARO

**PO-06-26 Genetic correlations between fat to protein ratio and days open of Holstein cows in Japan**

Akiko Nishiura<sup>1</sup>, Osamu Sasaki<sup>1</sup>, Mitsuo Aihara<sup>2</sup>, Hisato Takeda<sup>1</sup>

<sup>1</sup>Institute of Livestock and Grassland Science, NARO, <sup>2</sup>Livestock Improvement Association of Japan

**PO-06-27 Genetic analysis of calving ease trait in Korean Holstein cattle**

Alam Mahboob, Kwang Hyeon Cho, Tae Jeong Choi, Yun Ho Choy, Jae Gu Lee

National Institute of Animal Science, RDA, Choeran

**PO-06-28 The effect of Work Safety, Animal Welfare Criteria on Profitability in Dairy**

Serap Goncu, Gulcan Turkoglu, Nazan Koluman, Murat Gorgulu

Çukurova University

**PO-06-29 Meteorological factor and observing day for analyzing the effect of heat stress on dairy milk production for Holstein in Japan**

Osamu Sasaki<sup>1</sup>, Akiko Nishiura<sup>1</sup>, Mitsuo Aihara<sup>2</sup>, Hisato Takeda<sup>1</sup>

<sup>1</sup>Institute of Livestock and Grassland Science, NARO, <sup>2</sup>Livestock Improvement Association of Japan, Inc.

**PO-06-30 Incorporating imprinting effect in whole-genome prediction in mice**

Motohide Nishio<sup>1</sup>, Masahiro Satoh<sup>2</sup>, Osamu Sasaki<sup>1</sup>

<sup>1</sup>Institute of Livestock and Grassland Science, NARO, <sup>2</sup>Graduate School of Agricultural Science, Tohoku University

**PO-06-31 Effect of Days Postpartum and Locality of Hanwoo Cows by Parity**

Jeong MI Hwang, Jae Kyoung Cheong, Young Kon Park, Tae Sung Kim, Joong Kook Park,

Jae Yoon Shim, Chang Min Jeong, Ho Nam Choi, Dong Soo Lee

Livestock Research Institute, National Agriculture Cooperative Federation

**PO-06-32 Estimation of genetic parameters for milk production and lactation length for the Murrah buffalo in Thailand**

Thiamphop Kanloun<sup>1</sup>, Piyada Tavitchasri<sup>1</sup>, Jongruk Kongyim<sup>1</sup>, Ranchuan Hengtrakunsin<sup>2</sup>

<sup>1</sup> King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus,

<sup>2</sup> Murrah Dairy Company Limited, Chachoengsao

**PO-06-33 Effects of Metabolizable Energy and Protein Levels on Egg Production Performances and Egg Quality of Laying Hens**

Keatisak Soisuwan

Rajamagala University of Technology Srivijaya

**PO-06-34 Effect of enzyme supplementation from tomato pomace by *Aspergillus niger* on live performance of broiler chickens**

Benya Saenmahayak<sup>1</sup>, Sukanya Saithi<sup>2</sup>, Chalermpon Yuangklang<sup>1</sup>, Smerjai Bureenok<sup>1</sup>, Kraisit Vasupen<sup>1</sup>

<sup>1</sup> Faculty of Sciences and Liberal Arts, Rajamangala University of Technology Isan, Nakhon Ratchasima,

<sup>2</sup> Faculty of Natural Resources, Rajamangala University of Technology Isan, Sakon Nakhon Campus

**PO-06-35 Enhancement of immune function through dietary supplementation of *Angelica gigas* Nakai root powder on heat stressed Ross broiler chickens**

Emil Joseph Vergara<sup>1</sup>, Wenchie Marie Lumbe<sup>1</sup>, Seung-Hak Yang<sup>2</sup>, Seong-Gu Hwang<sup>1</sup>

<sup>1</sup> Department of Animal Life and Environmental Science, Hankyong National University, Korea,

<sup>2</sup> National Institute of Animal Science, Rural Development Administration, Korea

**PO-06-37 Effect of high level of selenium from selenium-enriched kale sprout on selenium concentrations in egg and tissues of laying hens**

Orawan Chinrasri<sup>1</sup>, Lalita Borisuth<sup>1</sup>, Piyanete Chantiratikul<sup>2</sup>, Anut Chantiratikul<sup>1</sup>

<sup>1</sup> Faculty of Technology, Mahasarakham University, <sup>2</sup> Faculty of Sciences, Mahasarakham University

**PO-06-38 Lipoteichoic acid and muramyl dipeptide do not affect food and water intake in chicks**

Tetsuya Tachibana<sup>1</sup>, Sayaka Yamane<sup>1</sup>, Takako Sakurai<sup>1</sup>, Ryosuke Makino<sup>1</sup>, Md Sakirul I Khan<sup>2</sup>,

Mark A Cline<sup>3</sup>

<sup>1</sup> Ehime University, Faculty of Agriculture, <sup>2</sup> Ehime University, Graduate School of Medicine,

<sup>3</sup> Virginia Polytechnic Institute and State University

**PO-06-39 Effects of nanosize zinc oxide and  $\gamma$ -polyglutamic acid on zinc retention and egg shell quality of aged laying hens**

Tu-Fa Lien

National Chiayi University, Taiwan

**PO-06-40 EFFECTS OF VARYING DIETARY RATIOS OF n-6:n-3 FA ALTER GENE EXPRESSION AND FATTY ACID COMPOSITION IN BREAST MEAT OF BROILERS**

Nazim Rasul Abdulla<sup>1,6</sup>, Teck Chwen Loh<sup>1,2</sup>, Hooi Ling Foo<sup>3,4</sup>, Henny Akit<sup>1</sup>, Awis Qurni Sazili<sup>1,5</sup>

<sup>1</sup> Department of Animal Science, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia,

<sup>2</sup> Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia,

<sup>3</sup> Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Science, Universiti Putra Malaysia, Malaysia,

<sup>4</sup> Institute of Bioscience, Universiti Putra Malaysia, Malaysia,

<sup>5</sup> Halal Products Research Institute, Universiti Putra Malaysia, Malaysia,

<sup>6</sup> Department of Animal Resource, University of Salah al- Din, Iraq

**PO-06-41 Effects of solid-state fermented wheat bran by *Bacillus amyloliquefaciens* and *Saccharomyces cerevisiae* on growth performance and intestinal microflora in broilers**

Che-Lun Chang<sup>1</sup>, Po-Yun Teng<sup>1</sup>, Shen-Chang Chang<sup>2</sup>, Bi Yu<sup>1</sup>, Tzu-Tai Lee<sup>1</sup>

<sup>1</sup> Department of Animal Science, National Chung Hsing University, Taiwan,

<sup>2</sup> Changhua Animal Propagation Station, Livestock Research Institute, Council of Agriculture, Taiwan

- PO-06-42 Effect of Dietary Turmeric Rhizome Powder and White Corn On Egg Production Performance of Laying Hens**  
Cherly Joula Pontoh, Jet Saartje Mandey, Cathrien A Rahasia  
Sam Ratulangi University Animal Husbandry Faculty
- PO-06-43 Effects of the multi-strain probiotics and herbal medicines supplementation in diet on intestinal microflora in broilers**  
Chi-Huan Chang, Po-Yun Teng, Tzu-Tai Lee, Bi Yu  
Department of Animal Science, National Chung Hsing University, Taiwan
- PO-06-44 Evaluation of mulberry leave as a functional feed additive of laying hens**  
Wei-Chih Lin, Min-Ting Lee, Tzu-Tai Lee, Bi Yu  
Department of Animal Science, National Chung Hsing University, Taiwan
- PO-06-45 Egg production and some egg quality traits by affecting body weight in Korean native chickens**  
Samiru Sudharaka Wickramasuriya, Taeg Kyun Shin, Eunjoo Kim, Hyun min Cho, Nu Ri Kim, Nam Kyu Kang, Jaehong Yoo, Soo Kee Lee, Jung Min Heo  
Department of Animal Science and Biotechnology, Chungnam National University, Korea
- PO-06-46 Effect of Dietary Supplementation of Blood Meal on Productive Performance and Egg Quality in Laying Hens**  
Dong Yong Kil, Ji Eun Shin, Gi Ppeum Han, Jong Hyuk Kim  
Chung-Ang University
- PO-06-47 Effect of herbal cocktail (Capsicum spp., Curcuma longa and Allium sativum) powder dietary supplementation on performance and immunity of broilers**  
Kornkamon Paditporn, Jamlong Mitchaothai, Patipan Jaipeng, Rachakris Lertpatarakomol  
Faculty of Veterinary Medicine, Mahanakorn University of Technology
- PO-06-51 Efficacy of Thai bentonite to ameliorate the adverse effects of mycotoxins contaminated diet in Cherry Valley ducks**  
Bundit Tengjaroenkul, Lumyai Neeratanaphan, Patcharin Ruchuwarak, Kantapat Rattanasinthuphong  
Khon Kaen University, Faculty of Veterinary Medicine
- PO-06-52 Effect of dried Asteraceae plant powder on gut microbiota of broiler with E. tenella infection**  
Yi-Ru Wu, Zi-Lan Chen, Hsin-I Chiang  
National Chung Hsing University Dept. of Animal Science
- PO-06-53 Effects of Energy Source in Meat Type Ducks Diets during Starter to Grower Period**  
Kanokporn Pongpong, Suawaluk Saree, Theerawit Poiekampa, Choawit Rakangthong, Phongthorn Kongmun, Wiriya Loongyai, Chaiyabhum Banchasak  
Department of Animal Science, Faculty of Agriculture, Kasetsart University, THAILAND
- PO-06-54 INTESTINAL ABSORPTION OF FRUCTOSE IN SATIATED OR STARVED CHICKS**  
Yoshinori Komaki, Kensuke Shimizu, Kouichi Yoshitome, Ryosuke Fujita, Takashi Bungo  
Hiroshima University
- PO-06-55 Skeletal Muscle Protein Degradation is Attenuated by the Combination of Dietary Conjugated Linoleic Acid and Voluntary Wheel Running**  
Akira Ohtsuka, Noriko Kawatomi, Kunioki Hayashi, Daichi Ijiri  
Kagoshima University Faculty of Agriculture

**PO-06-56 Various Levels of Milk By-products in Weaning Diet on Growth Performance, Blood Profiles and Intestinal Morphology**

Byeong Ok Kim, Sung Ho Do, Tae Hee Han, Lin Hu Fang, Yoo Yong Kim

School of Agricultural Biotechnology, Seoul National University

**PO-06-57 Effects of fasting and refeeding on expression of FBXO32 in brain and liver of broiler chicks**

Kazuki Nakashima, Aiko Ishida

Institute of Livestock and Grassland Science, NARO

**PO-06-58 Evaluation of Rapeseed Meal Supplementation on Growth Performance, Blood Profiles and Immune Response in Weaning Pigs**

Sung Ho Do, Byeong Ock Kim, Yoo Yong Kim

School of Agricultural Biotechnology, Seoul National University

**PO-06-59 Effects of Dietary Cashew Nut Testa Levels as Alternatives of Wheat Bran in Gestating Sow**

Jae Cheol Jang<sup>1</sup>, Lin Hu Fang<sup>1</sup>, Young Gi Hong<sup>2</sup>, Jin Su Hong<sup>1</sup>, Yoo Yong Kim<sup>1</sup>

<sup>1</sup> School of Agricultural Biotechnology, Seoul National University,

<sup>2</sup> Doosan Feed and Livestock

**PO-06-60 Effects of Supplementation of Lysine Cell Mass as a Substitution for L-lysine-HCl on Growth performance and Blood Profiles in piglets**

Hee Seong Kim, Sung Ho Do, Chun Long Yan, Yoo Yong Kim

School of Agricultural Biotechnology, Seoul National University

**PO-06-61 Effect of Dietary Iodine Supplementation on the Expression of Egg Proteins in the Liver and Oviduct of Laying Hens**

Ken Ito R<sup>1</sup>, Ryo Taguchi<sup>2</sup>, Jiro Yokoyama<sup>3</sup>, Kazumi Kita<sup>1,2</sup>

<sup>1</sup> The United Graduate School of Agricultural Sciences, Iwate University, <sup>2</sup> Faculty of Agriculture, Iwate University,

<sup>3</sup> Iodine Egg Department, Nosan Corporation

**PO-06-62 Yukireitake mushroom (*P. eryngii* var. *tuoliensis* C.J.Mou) has both agonistic and antagonistic activities against peroxisome proliferator-activated receptor (PPAR)delta**

Wataru Mizunoya, Imoto Daisuke, Nakamura Mako, Tatsumi Ryuichi, Ikeuchi Yoshihide

Department of Bioresource Sciences, Kyushu University

**PO-06-63 COMPARISON OF FATTY ACIDS PROFILE IN DIFFERENT ESSENTIAL OILS AND COCONUT OIL**

Nai Hsuan Chiu, Liang Chou Hsia, Shih Hua Liu

National Pingtung University of Science and Technology

**PO-06-64 EFFECT OF DIETARY SUPPLEMENTATION OF BAKER'S YEAST ON GROWTH PERFORMANCE AND NUTRIENT DIGESTIBILITY IN BROILER CHICKENS**

ABDUL RAZAK ALIMON<sup>1</sup>, NABILA MOHAMADDIN<sup>2</sup>, ANJAS ASMARA SAMSUDIN<sup>2</sup>

<sup>1</sup> Universitas Gadjahmada, Faculty of Animal Husbandry,

<sup>2</sup> Universiti Putra Malaysia, Faculty of Agriculture

**PO-06-65 The Effect of duodenal infusion of medium-chain fatty acids on plasma ghrelin concentration in sheep**

Rika Fukumori<sup>1</sup>, Ayaka Takeuchi<sup>1</sup>, Rina Yanai<sup>1</sup>, Borjigin Sarentonglaga<sup>1</sup>, Kazuko Ogata<sup>3</sup>, Mio Yamaguchi<sup>2</sup>, Asuka Hara<sup>2</sup>, Akane Sato<sup>2</sup>, Yoji Masuda<sup>2</sup>, Yoshihisa Hasegawa<sup>4</sup>, Masayasu Kojima<sup>5</sup>, Kenji Kangawa<sup>6</sup>, Toshihisa Sugino<sup>7</sup>, Yoshikazu Nagao<sup>1,2</sup>

<sup>1</sup> University Farm, Department of Agriculture, Utsunomiya University,

<sup>2</sup> Department of Animal Production Science United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology,

<sup>3</sup> Collaboration Center for Research and Development, Utsunomiya University,

<sup>4</sup> School of Veterinary Medicine and Animal Science, Kitasato University,

<sup>5</sup> Institute of Life Science, Kurume University,

<sup>6</sup> National Cardiovascular Center Research Institute,

<sup>7</sup> Graduate School of Biosphere Science, Hiroshima University

**PO-06-66 Changes of the hepatic expression of  $\alpha$ -tocopherol-related genes in relation to the hypovitaminosis E around calving in dairy cows**

Satoshi Haga<sup>1</sup>, Miwa Nakano<sup>1</sup>, Makoto Miyaji<sup>1</sup>, Hiroshi Ishizaki<sup>1</sup>, Sang-gun Roh<sup>2</sup>

<sup>1</sup>National Agriculture and Food Research Organization (NARO),

<sup>2</sup>Tohoku University Graduate School of Agriculture

**PO-06-68 The relationship between mammary gland development and imprinted genes**

Shinichi Yonekura<sup>1,2,3</sup>, Masaki Ohata<sup>2</sup>, Hitomi Tokita<sup>2</sup>, Megumi Tsuchiya<sup>2</sup>, Yukako Tokutake<sup>3</sup>

<sup>1</sup>Institute for Biomedical Sciences, Shinshu University, <sup>2</sup>Graduate School of Agriculture, Shinshu University,

<sup>3</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University

**PO-06-69 Expression of Hsp72, Hsp73 and Their Co-chaperone in the Cattle with Different Thermotolerance Capacity**

Suporn Katawatin<sup>1</sup>, Surangkana Suklerd<sup>1</sup>, Monchai Duangjinda<sup>1</sup>, Sittirak Roytrakul<sup>2</sup>

<sup>1</sup>Department of Animal Science, Faculty of Agriculture, Khon Kaen University, THAILAND,

<sup>2</sup>National Center for Genetic Engineering and Biotechnology (BIOTEC), THAILAND

**PO-06-70 Inverse Correlation of Blood Glucose and Non-Esterified Fatty Acid Concentrations with Ambient Temperature in Korean Cattle Steers**

Hyeok Joong Kang, Seung Ju Park, Min Yu Park, Myunggi Baik

College of Agriculture and Life Sciences, Seoul National University

**PO-06-71 Voluntary feeding induces cardiac hypertrophic pathogenesis in broiler hens**

Shuen-Ei Chen

Department of Animal Science, National Chung Hsing University

**PO-06-72 Characteristics of Japanese Black caws with prion gene knockout to prevent spontaneous BSE**

Noboru Manabe<sup>1</sup>, Yutaka Sendai<sup>2</sup>, Aoyagi Yoshihito<sup>2</sup>, Ahsan AKM Kabir<sup>3</sup>, Kannika Wongpanit<sup>3</sup>, Ichiro Onoyama<sup>3</sup>, Junyou Li<sup>3</sup>

<sup>1</sup>Osaka International University, <sup>2</sup>National Federation of Agricultural Cooperative Associations,

<sup>3</sup>The University of Tokyo

**PO-06-73 Effects of using teat seal during dry period on milk somatic cell count**

Pakanit Kupittayanant, Sukanya Butprom

School of Animal Production Technology, Institute of Agricultural Technology, Suranaree University of Technology, Thailand

**PO-06-74 Blood and milk leptin levels in Thai native cattle**

Sajeera Kupittayanant, Nicharat Jirawiwatkul

School of Physiology, Institute of Science, Suranaree University of Technology, Thailand

**PO-06-75 Species-specific DNA sequence cloning for *Pyrrhura molinae* species identification**

Chi-An Liu, Chih-Feng Chen, Pin-Chi Tang

Department of Animal Science, National Chung Hsing University

**PO-06-76 Stimulatory effect of methionine on chicken lymphocyte cell line proliferation**

Chaiwat Boonkaewwan<sup>1</sup>, Jatuporn Noosud<sup>2</sup>, Autchara Kayan<sup>1</sup>, Pannapat Guntapa<sup>1</sup>

<sup>1</sup>Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand,

<sup>2</sup>Department of Companion Animal Clinical Science, Faculty of Veterinary Medicine, Kasetsart University, Thailand

**PO-06-77 Effect of methionine on IL-2 release from chicken lymphocyte cell line**

Jatuporn Noosud<sup>1</sup>, Chaiwat Boonkaewwan<sup>2</sup>, Autchara Kayan<sup>2</sup>, Anutian Suklek<sup>2</sup>

<sup>1</sup>Department of Companion Animal Clinical Science, Faculty of Veterinary Medicine, Kasetsart University, Thailand,

<sup>2</sup>Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand

**PO-06-78 DIFFERENTIAL LOCALIZATION OF CLAUDIN-1 IN INTESTINAL EPITHELIAL SEGMENTS OF KU BETONG AND THAI NATIVE CHICKENS**

Sirin Theerawatanasirikul<sup>1</sup>, Nunyarat Koomkrong<sup>2</sup>, Autchara Kayan<sup>2</sup>, Chaiwat Boonkaewwan<sup>2</sup>

<sup>1</sup>Department of Anatomy, Faculty of Veterinary Medicine, Kasetsart University,

<sup>2</sup>Department of Animal Science, Faculty of Agriculture, Kasetsart University

**PO-06-79 COMPARATIVE AND FUNCTIONAL MORPHOLOGY IN MUSCLES OF OH-SHAMO, FIGHTING BREED OF NATIVE JAPANESE CHICKENS**

Takao Oka, Takashi Bungo

Hiroshima University

**PO-06-80 Histological analysis of glucagon-like peptide-1 receptor expression in chicken small intestine**

Takafumi Watanabe<sup>1</sup>, Kei Nishimura<sup>2</sup>, Kana Aichi<sup>1</sup>, Kohzy Hiramatsu<sup>1,2</sup>

<sup>1</sup>Faculty of Agriculture, Shinshu University,

<sup>2</sup>Interdisciplinary Graduate School of Science and Technology, Shinshu University