

Keynote Lecture Program

Monday, 22 August [hotel nikko fukuoka]

Keynote Lecture

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

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

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

Metha Wanapat¹, Anusorn Cherdthong¹, Sungchhang Kang², Chaowarit Mapato¹

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

²Agricultural 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

Chair: Yoshinobu Uemoto National Livestock Breeding Center

- 0-01-1 Improvement the accurate genetic estimation of milk yield trait by addition of wind speed to THI in crossbred Thai Holstein**
Watcharapong Teawyuneyong¹, Monchai Duangjinda^{1,2}, Sayan Buaban³, Vibuntita Chankitisakul^{1,2}, Wuttigrai Boonkum^{1,2}
¹ Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,
² Thermo-tolerance Dairy Cattle Research Group, Khon Kaen University, Thailand,
³ 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 Ogawa¹, Hirokazu Matsuda¹, Yukio Taniguchi¹, Toshio Watanabe², Yoshikazu Sugimoto³, Hiroaki Iwaisaki¹
¹ Graduate School of Agriculture, Kyoto University, ² National Livestock Breeding Center,
³ 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 Gervais¹, Keijiro Nirasawa², Christian Vincenot¹, Yoshitaka Nagamine³, Kazuyuki Moriya¹
¹ Kyoto University, Graduate School of Informatics, ² NARO Institute of Livestock and Grassland Science,
³ 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 Jattawa¹, Skorn Koonawootrittriron¹, Mauricio A. Elzo², Thanathip Suwanasopee¹
¹ Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand,
² Department of Animal Sciences, University of Florida, USA
- 0-01-5 Screening of embryo secreted factors using bovine elongated embryos**
Hironori Masaka¹, Sayed Ali Askar Musavi^{1,2}, Md. Rashedul Islam^{1,3}, Nobuhiko Yamauchi¹
¹ Department of Animal and Marine Bioresource Sciences, Faculty of Agriculture, Kyushu University, Japan,
² Department of Animal Science Agriculture Faculty Balkh University Afghanistan,
³ 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^{1,2}, Jeng-Fang Huang³, Chih-Feng Chen², Hsiu-Chou Liu¹
¹ Ilan Branch, Livestock Research Institute, Council of Agriculture, Executive Yuan, Taiwan,
² Department of Animal Science, National Chung Hsing University, Taiwan,
³ 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^{1,2}, Yuka Yoshii¹, Yuko Ikeguchi¹, Mohamed El-Sharawy^{1,3}, Nobuhiko Yamauchi¹

¹ Department of Animal and Marine Bioresource Sciences, Faculty of Agriculture, Kyushu University, Japan,

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

³ 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^{1,2}, Justin C. St. John^{1,2,3}

¹ Centre for Genetic Diseases, Hudson Institute of Medical Research, Australia,

² Department of Molecular and Translational Science, Monash University, Australia,

³ MitoStock Pty Ltd, Australia

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

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

Chair: TBD

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

Lin Wang¹, S. T. Takashi Tanaka^{1,2}, Hiroki Anzai¹, Yuki Hama¹, Kazato Oishi¹, Chagan Irbis², Hajime Kumagai¹, Tatsuya Inamura¹, Hiroyuki Hirooka¹

¹ Graduate School of Agriculture, Kyoto University, Japan,

² 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 Zhang¹, Ken-ichi Takeda²

¹ Shinshu University, Graduate School of Agricultural Science, Japan,

² 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 Jang¹, Na-Yeon Kim¹, Sung-Jin Kim¹, Jung-Hwan Jeon², Won-Mo Cho², Byeong-Tae Jeon¹, Sang-Ho Moon¹

¹ Division of Food Bio Science, Konkuk University, ² 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 Ikeda¹, Takeshi Yamaguchi¹, Momoko Kodaira¹, Mohammad A. Bahry¹, Vishwajit S. Chowdhury², Shinobu Yasuo¹, Mitsuhiro Furuse¹
¹Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,
²Division 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^{1,2}, Muhammad Halim Natsir², Osfar Sjoftan²
¹Department of Tropical Agriculture and International Cooperation, National Pingtung University of Science and Technology, Taiwan,
²Faculty 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 Djunaidi¹, Dini Hardini^{1,2}
¹The Assessment Institute for Agricultural Technology, Indonesia,
²Faculty of Animal Husbandry, Brawijaya University, Indonesia
- 0-03-4 Responses of hens fed high levels of selenium from selenium-enriched kale sprout**
 Anut Chantiratikul¹, Lalita Borisuth¹, Orawan Chinrasri¹, Piyanete Chantiratikul²
¹Faculty of Technology, Mahasarakham University, ²Faculty 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 Shazali¹, Teck Chwen Loh^{1,2}, Hooi Ling Foo^{3,4}, Jalaludin Syed¹

¹ Department of Animal Science, Faculty of Agriculture Universiti Putra Malaysia, Malaysia,

² Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia,

³ Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences Universiti Putra Malaysia, Malaysia,

⁴ 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 Sirilaophaisan¹, Paiwan Punyakaew¹, Pongsathorn Gunun¹, Thachawech Kimprasit¹, Nattaya Banglab²

¹ Rajamangala University of Technology Isan Sakon Nakhon Campus,

² 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 Celik¹, Mustafa Cikrikci¹, Ugur Serbest¹, Yusuf Uzun¹, Sait Polat², Fatma Yenilmez³, Mehmet Celik⁴, Osman Gulnaz⁵, Hasan Rustu Kutlu¹

¹ Cukurova University Faculty of Agricultural Department of Animal Science,

² Cukurova University Faculty of Medicine Department of Department of Basic Medical Sciences,

³ Cukurova University Vocational School of Tufanbeyli,

⁴ Cukurova University Faculty of Fisheries Department of Fisheries and Seafood Processing Technology,

⁵ 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

Chair: Taketo Obitsu Hiroshima 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 Noidad¹, Rutcharin Limsupavanich¹, Suntaree Suwansichon², Ronachai Sitthigripong¹, Chanporn Chaosap³

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

² Department of Product Development, Faculty of Agro-Industry, Kasetsart University,

³ 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 Ashley¹, James Robert Young¹, Kea Pha², Sothoeun Suon², Peter Andrew Windsor¹, Russell David Bush¹

¹ Faculty of Veterinary Science, The University of Sydney, Australia,

² 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 Romero¹, Edgar Orden², Neal Del Rosario², Jovani Jo Galamgam², Rhanny Gonzales²

¹Benguet State University, ²Central Luzon State University

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

Sungchhang Kang¹, Metha Wanapat², Ahkarapon Nuno²

¹Agricultural Unit, Department of Education, National Institute of Education, Cambodia,

²Tropical 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 Ashagrie¹, Watanabe Shota², Suzuki Kengo², Hanada Masaaki¹, Umetsu Kazutaka¹,

Nishida Takehiro¹

¹Obihiro University of Agriculture and Veterinary Medicine, ²Euglena 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 Ampapon¹, Metha Wanapat¹, Kampanat Phesatcha¹, Sungchhang Kang²

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

²Agricultural 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 Htun¹, Yasuhiro Suzuki², Yuki Koike², Tadashi Sato², Masaaki Hanada²

¹United Graduate School of Agricultural Science, Iwate University, Japan,

²Obihiro 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 Rattanasinthuphong¹, Pawadee Pakdee¹, Bundit Tengjaroenkul²

¹Department of Animal science, Faculty of Agriculture, Khon Kaen University, Thailand,

²Faculty 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 Ichimura¹, Satoshi Ishikawa², Makoto Kondo³, Yoshiaki Hayashi^{1,2}

¹Graduate School of Agriculture, Meijo University, ²Faculty of Agriculture, Meijo University,

³Graduate 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: TBD

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

 Moustafa Elhamouly¹, Yukinori Yoshimura^{1,2}, Naoki Isobe^{1,2}
¹ Hiroshima University, Graduate School of Biosphere Science, ² 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^{1,2}
¹ Department of Agricultural Biotechnology and Research Institute for Agriculture and Life Sciences, Seoul National University, Korea,

² 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 Mohammed¹, NAOKI ISOBE^{1,2}, YUKINORI YOSHIMURA^{1,2}
¹ Graduate School of Biosphere Science, Hiroshima University, ² RCAS, Hiroshima University

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

 Takuma Okajima¹, Yoshinari Yamamoto^{2,3}, Tasuku Ogita⁴, Takeshi Shimosato^{1,2,4}
¹ Graduate School of Agriculture, Shinshu University,

² Interdisciplinary Graduate School of Science and Technology, Shinshu University,

³ Research Fellow of the Japan Society for the Promotion of Science (JSPS),

⁴ 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 Chen¹, Yu-Chun Lin^{1,2}, Jin-Seng Lin³, Ming-Ju Chen¹
¹ Department of Animal Science and Technology, National Taiwan University, Taiwan,

² Livestock Research Institute, Council of Agriculture, Executive Yuan, Taiwan, ³ SynbioTech Incorporation, Taiwan

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

 Hiromitsu Moriyama¹, Xuan Luu Tang²
¹ The Open university of Japan, ² Ba Vi cattle and forage research 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 Kaewsutas¹, Ariya Sarikaphuti¹, Thamthiwat Nararatwanchai¹, Prapas Patchanee²
¹ School of Antiaging and Regenerative Medicine, Mae Fah Luang University, Thailand,

² Faculty of Veterinary Medicine, Chiang Mai University

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

 Hsin-Wen Chang¹, Ming-Ju Chen¹, Cheng-Chih Hsu², Ming-Lun Chiang³
¹ Department of Animal Science and Technology, National Taiwan University,

² Department of Chemistry, National Taiwan University,

³ Department of Tourism and Hospitality Management, Kainan University

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

 Wulandari Zakiah¹, Fardiaz Dedi², Thenawijaya Maggy², Dewi Yuliana Nancy²
¹ Department of Animal Production and Technology, Faculty of Animal Science, Bogor Agricultural Technology,

² 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

Chair: Wahyu Widodo University of Muhammadiyah Malang

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

Chayut Dongpaleethun¹, Somchart Thana², Choke Sorachakura², Norakamol Laorodphan³, Kawintra Khangkhan⁴, Khanchai Danmek⁴

¹ Phayao Livestock Research Station, Department of Livestock Development, Thailand,

² Program of Animal Science, School of Agriculture and Natural Resources, University of Phayao, Thailand,

³ Program of Animal Science, Faculty of Food and Agricultural Technology, Pibulsongkram Rajabhat University, Thailand,

⁴ 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 Pumrojana¹, Suwit Terapuntuwat², Parwadee Pakdee², Nitchanan Chukerd¹, Nantiya Saetiew¹, Watchara Ninphet¹

¹ Division of Animal Science, Faculty of Science and Technology, Muban Chombueng Rajabhat University,

² 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 LOONGYAI¹, Jiraporn Marayat¹, Panwadee Sopannarath¹, Chaowit Rakangthong¹, Theerawit Poeikhampa¹, Kanokporn Pongpong¹, Phongthorn Kongmun¹, Phuwadol Bangrak², Chaiyapoom Bunchasak¹

¹ Department of Animal Science, Faculty of Agriculture, Kasetsart University, Bangkok, Thailand 10900,

² 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 Pukkung¹, Parwadee Pakdee¹, Bundit Tengjaroenkul², Padsakorn Pootthachaya¹

¹ Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

² 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 Pootthachaya¹, Parwadee Pakdee¹, Bundit Tengjaroenkul², Chayanan Pukkung¹

¹ Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

² 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 Poeikhampa, 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^{1,2}, Lathifah Fitriyani Dewi², Muhammad Halim Natsir², Osfar Sjojan²

¹ Department of Tropical Agriculture and International Cooperation, National Pingtung University of Science and Technology, Taiwan,

² 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 Maharakham University

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

Guofeng Han¹, Hui Yang¹, Mohammad A Bahry¹, Phuong V Tran¹, Phong H Do¹, Mitsuhiro Furuse¹, Vishwajit S Chowdhury²

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

² 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 Goh¹, Teck Chwen Loh^{1,2}, Hooi Ling Foo^{3,4}

¹ Department of Animal Science, Faculty of Agriculture, Universiti Putra Malaysia,

² Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia,

³ Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences,

⁴ 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^{1,2}, Teck Chwen Loh², Henny Akit¹, Hooi Ling Foo², Rosfarizan Mohamad¹

¹ Department of Animal Science, Faculty of Agriculture, University Putra Malaysia, Malaysia,

² 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 Lumbe¹, Emil Joseph Vergara¹, Seung-Hak Yang², Seong-Gu Hwang¹

¹ Department of Animal Life and Environmental Science, Hankyong National University, Korea,

² 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. Lumbo¹, Therese A. Collantes², Rommel C. Sulabo¹

¹ Animal and Dairy Sciences Cluster, University of the Philippines Los Baños, Philippines,

² 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 Andri¹, Aji Sukoco², Taufich Hilman², Eko Widodo³

¹ Postgraduate Student, Faculty of Animal Husbandry, University of Brawijaya, Indonesia,

² Alumni, Faculty of Animal Husbandry, University of Brawijaya, Indonesia,

³ Department of Animal Nutrition and Feed Science, Faculty of Animal Husbandry, University of Brawijaya, Indonesia

0-07-9 Effect of α -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

Chair: TBD

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-Posadas¹, Lisa Shepard², Abner J Gutiérrez-Chávez¹, Alma A Lechuga-Aranna¹, César A Ángel-Sahagún¹

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

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

Mudawamah Mudawamah^{1,3}, Irawati Dinasari Retnaningtyas¹, M Zainul Fadli², Gatot Ciptadi³

¹ Faculty of Animal Science, University of Islam Malang, ² Faculty of Medicine, University of Islam Malang,

³ 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 Nurgiartiningsih¹, Agus Budiarto¹, Suprih Bambang Siswijono¹, Retno Wandansari²

¹ University of Brawijaya Malang, ² 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 Borisutsawat¹, Mattaneeya Sarakul^{2,3}, Sutida Onsongchun¹, Danai Jattawa²,
Jirayut Khemsawat², Thanathip Suwanasopee², Skorn Koonawootrittriron²
¹ Bureau of Animal Husbandry and Genetic Improvement, Department of Livestock Development,
² Department of Animal Science, Faculty of Agriculture, Kasetsart University,
³ 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

Chair: Shiu Yin Leu Livestock Research Institute, COA, Executive Yuan.

- 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 Widayati¹, Andoyo Supriyantono², Onesimus Yoku³, Iriani Sumpé⁴
 Papua University
- 0-09-4 Indigenous Chicken and Fighting Cock Production Systems in Thailand**
Rangsun Charoensook, Sonthaya Numthuam, 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 Cicek¹, Murat Tandogan¹, Recep Kara²
¹Afyon Kocatepe University, Faculty of Veterinary Medicine Department of Animal Health Economics and Management,
²Afyon 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^{1,2}, Scott Waldron¹, Malcolm Wegener¹, R. A. Cramb¹
¹Indonesian Centre for Animal Research and Development, Bogor Indonesia,
²The 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

Chair: Takeshi Osawa University of Miyazaki

- 0-10-1 REPRODUCTIVE PERFORMANCES OF HOLSTEIN FRIESIAN HEIFERS AND COWS INSEMINATED WITH SEXED SEMEN**
Buddhi Chamara Kalansooriya^{1,2}, H M Gayani Priyadarshani Herath¹
¹Department of Livestock Production, Faculty of Agricultural Sciences, Sabaragamuwa University of Sri Lanka, Sri Lanka,
²New 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 Toleng¹, Muhammad Yusuf¹, Surya Darma²
¹Hasanuddin University, Indonesia, ²Department 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^{1,2}, Mei Matsuzaki^{1,2}, Shusei Mizushima³
¹Shizuoka University, ²Gifu University, ³University 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 Yekti¹, Enike Dwi Kusumawati², Nisau Sholikhah¹, Muchamad Luthfi³,
 Lukman Affandhy³, Dicky Pamungkas³, Kuswati Kuswati¹, Aswah Ridhowi¹, Herni Sudarwati¹,
 Nurul Isnaini¹, Trinil Susilawati¹
¹Animal Husbandry Faculty of Brawijaya University, Indonesia,
²Animal Husbandry Faculty of Kanjuruhan University, Indonesia, ³Beef 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 Osawa¹, Masashi Tanaka¹, Yuji Tsubakishita¹, Takashi Ekawa¹, Koichiro Hemmi², Ikuo Kobayashi²,
 Mizuho Uematsu³, Go Kitahara¹
¹Laboratory of Theriogenology, University of Miyazaki, ²Sumiyoshi Livestock Science Station, University of Miyazaki,
³Department of Production Medicine, NOSAI Miyazaki

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

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

Chair: Indah Prihartini Faculty of Agriculture and Animal Science, University of Muhammadiyah Malang

- 0-11-1 Effect of *Kaempferia galanga* L. on in vitro nutrients digestibility, ruminal fermentation and methane production**
Asih Kurniawati^{1,2}, Widodo¹, Wayan T Artama², Lies Mira Yusiati¹
¹Faculty of Animal Science Universitas Gadjah Mada, ²Faculty 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 Suhartanto¹, Ristianto Utomo¹, Satria Budi Kusuma¹, Dian Astuti²

¹ Faculty of Animal Science, Gadjah Mada University, ² 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^{1,2}, Metha Wanapat²

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

² 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^{1,2}, Veronica Margareta Ani Nurgiantiningsih¹, Suprih Bambang Siswijono¹, Mashudi Mashudi¹

University of Brawijaya

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

Anjas Asmara Samsudin^{1,2}, Maisara Amin¹, Teck Chwen Loh^{1,2}

¹ Department of Animal Science, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia,

² 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 Wu¹, Yusuke Sugimoto², Yuji Tanabe², Takeshi Turuda¹, Naoki Nishino¹

¹ Okayama University, ² 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 Suseno¹, Fitria Gemma Tyasari¹, Rani Agustina², Bambang Suwignyo¹, Bambang Suhartanto¹, Nafiatul Umami¹

¹ Dept. of Animal Nutrition Faculty of Animal Science Gadjah Mada University Indonesia,

² 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

Chair: Sung Woo Kim North Carolina State University

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

Buaream Maneewan¹, Tonglian Buwjoom¹, Koh-en Yamauchi²

¹ Faculty of Animal Science and Technology, Maejo University, Thailand,

² 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, Chaiyapoom 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 Wang¹, Kuo-Lung Ku², Cheng-Yang Chuang², Kuo-Lung Chen¹

¹ Department of Animal science, National Chiayi University, Taiwan,

² 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, Chaiyapoom 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, Chaiyapoom 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 Chen¹, Ya-Wen Kang¹, Tsang-Chyi Shiah², Kuo-Lung Chen¹

¹ Department of Animal Science of National Chiayi University,

² 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 Krutthai¹, Chaiyapoom Bunchasak², Naruemol Sangsawang², Wiriya Loongyai²,
Chanwit Kaewtapee², Theerawit Poeikhampha²

¹ Department of Agricultural Technology and Development, Faculty of Agricultural Technology, Chiang Mai Rajabhat University, Thailand,

² 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

Chair: TBD

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 Wu¹, Peili Li¹, Lili Bai¹, Hu Liu¹, Changhua Lai¹, Philip Thacker², Fenglai Wang¹

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

²Department 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, Suthisa Khempaka

Suranaree University

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

WANTAMAS JANTASIN¹, LIANG CHOU HSIA²

¹Faculty of Animal Science and Technology, Maejo University, Thailand,

²Department 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 Faudzi¹, Teck Chwen Loh^{1,2}, Henny Akit¹

¹Department of Animal Science, Faculty of Agriculture, University of Putra Malaysia,

²Institute 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

Chair: Takdir Sali Universitas Halu Oleo, Indonesia

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

Takdir Sali, 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 Prabuddha¹, Hee-Bok Park¹, Dong-Won Seo¹, Nu-Ri Choi¹, Shil Jin¹, Sung Jin Ahn², Jun-Heon Lee¹

¹Division of Animal and Dairy Science, Chungnam National University, Korea,

²Department 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 Bungsrissawat¹, Sornthep Tumwasorn¹, Wiriya Loongyai¹, Sasitorn Nakthong², Panwadee Sopannarath¹

¹Department of Animal Science, Faculty of Agriculture, Kasetsart University, THAILAND,

²Department 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 Nagamine¹, Yoko Suzuki¹, Olivier Gervais², Keijiro Nirasawa³

¹Nihon University, ²Kyoto University, ³NARO 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^{1,2}, Monchai Duangjinda¹, Banyat Laopaiboon¹, Wuttigrai Boonkum¹

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

²Graduate school, Khon Kaen University, Thailand

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

Panwadee Sopannarath¹, Arraya Jeanmas²

¹Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand,

²Faculty 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 Duanghaklang¹, Monchai Duangjinda^{1,2}, Kanop Sujikara³, Banyat Laopaiboon², Yupin Phasuk^{1,2}

¹ Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

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

³ Tanaosree Thai Chicken Co., Ltd., Thailand

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

Sukanya Charoensin¹, Banyat Laopaiboon², Wuttigrai Boonkum^{1,2}, Sajee Kanharaeng^{1,2},
Pitcharut Sanchaisuriya^{1,2}, Monchai Duangjinda^{1,2}

¹ Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

² 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: TBD

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 Guntoro¹, Subejo², Wahyudi³

¹ Universitas Gadjah Mada Faculty of Animal Science, ² Universitas Gadjah Mada Faculty of Agriculture,

³ 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 Yang¹, Vishwajit S Chowdhury², Mohammad A Bahry¹, Phuong V Tran¹, Phong H Do¹, Guofeng Han¹, Rong Zhang³, Hideki Tagashira⁴, Masahito Tsubata⁴, Mitsuhiro Furuse¹

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

²Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan,

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

⁴Research 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 JOEFREY¹, AINI IDERIS^{1,3}, INTAN SAFINAR ISMAIL⁵, FARIDAH ABAS⁵, JALILA ABU^{1,3}, NORASFALIZA RAHMAD⁶, MOKRISH AJAT^{1,2}, ROZAIHAN MANSOR^{1,4}

¹Centre of Excellence on Swiftlets, Faculty of Veterinary Medicine, Universiti Putra Malaysia,

²Department of Veterinary Preclinical Sciences, Faculty of Veterinary Medicine, Universiti Putra Malaysia,

³Department of Veterinary Clinical Studies, Faculty of Veterinary Medicine, Universiti Putra Malaysia,

⁴Department of Medicine and Surgery of Farm and Exotic Animal, Faculty of Veterinary Medicine, Universiti Putra Malaysia,

⁵Laboratory of Natural Products, Institute of Bioscience, Universiti Putra Malaysia,

⁶Agro-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 Kusumawati¹, Nurul Isnaini², Aulia Puspita Anugra Yekti², Nisau Sholikhah³, Muchamad Luthfi⁴, Lukman Affandhy⁴, Dicky Pamungkas⁴, Kuswati², Aswah Ridhowi², Herni Sudarwati², Trinil Susilawati²

¹Animal Husbandry Faculty, Kanjuruhan University, Indonesia,

²Animal Husbandry Faculty, Brawijaya University, Indonesia,

³Student of Animal Husbandry Faculty, Brawijaya University, Indonesia,

⁴Beef 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^{1,2}, EDENEIL JEROME VALETE¹, EVARISTO ABELLA², MARLON OCAMPO¹

¹Reproductive Biotechnology Unit, Philippine Carabao Center, National Headquarters and Gene Pool,

²Department 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 Ketut¹, Baliarti Endang², Priyono Sasmito Budhi Subur², Umami Nafiatul², Noviandi Cuk Tri², Kustono², Suparta Budisatria I Gede², Wattimena Jeffrie³

¹Antakusuma University Faculty of Agriculture, ²Gadjah Mada University Faculty of Animal Science,

³Pattimura University Faculty of Agriculture

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

Mien Theodora Rossesthellinda Lapijan¹, Pollung Siagian², Wasmen Manalu², Rudy Priyanto², Petrus Montong¹

¹Sam Ratulangi University, ²Bogor Institute of Agriculture

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

Yotsapon Yangngam¹, Vibuntita Chankitisakul^{1,2}, Monchai Punprom¹, Saowaluk Suton¹, Thevin Vongpralab^{1,2}

¹Department of Animal Science, Faculty of Agriculture, KhonKaen University, Thailand,
²Thermo-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 Rifai¹, Min Rahmatilla¹, Sonnya Oktaviani Helina¹, Dyah Kinasih Wuragil¹, Agung Pramana Marhendra³

¹Brawijaya University, Faculty of Veterinary Medicine, ²Brawijaya University, Faculty of Sciences

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

Pachara Thananurak¹, Napapach Chuaychu-noo¹, Pornjit Sornseeda², Saennamphung Somtaw³, Thevin Vongpralab³

¹Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,
²Faculty of Agricultural and Technology, Nakhon Phanom University, Thailand,
³Research 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 Kansaku¹, Yasuko Tobar¹, Gen Hiyama¹, Naokazu Minoguchi², Masazumi Numata², Masatoshi Kino², David Zadworny³

¹Azabu University, ²Aichi Agricultural Research Center, ³McGill 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

Chair: Toshiyoshi Ichinohe Shimane University

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

Khanchai Danmek¹, Tosawat Anorach¹, Somchart Thana², Chayut Dongpaleedham³, Norakamol Laorodphan⁴, Choke Sorachakura²

¹Program of Biotechnology, School of Agriculture and Natural Resources, University of Phayao, Thailand,
²Program of Animal Science, School of Agriculture and Natural Resources, University of Phayao, Thailand,
³Phayao Livestock Research Station, Department of livestock development, Thailand,
⁴Faculty 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 Jantarat, 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 Wahyudi¹, Listiari Hendraningsih¹, Dicky Pamungkas², Roy Hendroko Setyobudi³
¹ Faculty of Agriculture and Animal Husbandry, Muhammadiyah Malang University, Indonesia,
² Institute of Beef Cattle Research, Indonesia,
³ 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 Ishii¹, Yusuke Iki², Satoru Fukagawa³, Sachiko Idota¹
¹ Faculty of Agriculture, University of Miyazaki, ² Graduate School of Agriculture, University of Miyazaki,
³ 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 Dahlanuddin¹, Baiq Tutik Yuliana¹, Oscar Yanuarianto¹, Tanda Sahat Panjaitan², Michael Halliday³, Harry Max Shelton³
¹ Faculty of Animal Science University of Mataram, Indonesia,
² Assessment Institute for Agricultural Technology, Indonesia,
³ 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 Sutaryono¹, Muhammad Ali¹, Made Sriasih¹, Muhammad Taufik Fauzi²
¹ Faculty of Animal Science University of Mataram, ² 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 Ono¹, Akira Saito², Tatsuhiro Matsuno³, Takeshi Hayashi¹, Shuji Ueda¹, Takeshi Baba¹
¹ Fukuoka Agriculture and Forestry Research Center,
² Zen-Raku-Ren The National Federation Dairy Co-operative Association,
³ 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 γ

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 β -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^{1,2}, Hirokuni Miyamoto^{1,3,4}, Wataru Suda^{3,5}, Shinji Fukuda^{3,6}, Ryo Watanabe¹, Shota Yoshikawa¹, Hisashi Miyamoto⁴, Hiroshi Ohno⁶, Masahira Hattori^{5,7}, Hiroaki Kodama¹

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

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

Rohaida Abdul Rasid¹, Abd Razak Alimon²

¹ Faculty of Sustainable Agriculture, University Malaysia Sabah, Malaysia,

² Faculty of Animal Husbandry, Universitas Gadjahmada, Indonesia

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

Syam Rahadi¹, Astriana Napirah¹, La Malesi La Malesi¹, La Ode Arsyad Sani¹, Dian Agustina¹, Natsir Sandiah¹, La Ode Baa¹, Rahman Rahman¹, Widhi Kurniawan¹, Ayu Utami Bakhtiar², Wa Ode Astriyani Sari²

¹ Faculty of Animal Science, Universitas Halu Oleo, ² 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 Kucukyilmaz¹, Mehmet Bozkurt², Mustafa Çınar², Erol Bintaş², Mertcan Demircioğlu³

¹ Department of Animal Science, Faculty of Agriculture, Eskişehir Osmangazi University, Eskişehir-Turkey,

² General Directorate of Research, Erbeyli Research Institute, Aydın-Turkey,

³ 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

Chair: Peter Wynn Charles Sturt 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 Evanuarini¹, Nurliyani², Indratiningsih², Pudji Hastuti³
¹ Animal Food Technology, Faculty of Animal Husbandry, Brawijaya University, Indonesia,
² Animal Product Technology, Faculty of Animal Science, Gadjah Mada University, Indonesia,
³ Agricultural Technology, Gadjah Mada University, Indonesia
- 0-19-3 Amoxicillin, ampicillin and penicillin residues in informal milk supply chains of Pakistan**
Peter Wynn¹, Naveed Aslam¹, Muhammad Tipu², Mateen Abbas², Muhammad Ishaq², Sajid Latif¹,
David McGill³, Hassan Warriach², Muhammad Husnain²
¹ Graham Centre for Agricultural Innovation, Charles Sturt University, Australia,
² Quality Operation Laboratory, University of Veterinary and Animal Sciences, Pakistan,
³ 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 Wei¹, YU-YI Chen¹, Yu-Hsueh Tzeng¹, Tsai-Shin Wang¹, Yu-Chun Lin², Yen-Po Chen¹
 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 Arakawa¹, Kanako Matsunaga¹, Ai Moritoki¹, Shuhei Takihiro¹, Soma Ryuto¹, Yasushi Kawai²,
Tetsuya Masuda², Taku Miyamoto^{1,3}
¹ Graduate School of Environmental and Life Science, Okayama University,
² Graduate School of Bioresource Sciences, Nihon University, ³ 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^{1,2}, Kensuke Arakawa¹, Jafrinur², Hidetoshi Morita¹
¹ Graduate School of Environmental and Life Science, Okayama University,
² 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

Chair: Shubash Chandra Das Bangladesh Agricultural University

- 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^{1,2}, Irfan Djunaidi¹, Edhy Soedjarwo¹
¹ Faculty of Animal Husbandry, Brawijaya University, Indonesia,
² The Assessment Institute for Agricultural Technology, Indonesia
- 0-20-4 Use of Blue Swimming Crab Waste as Alternative Animal Feedstuff**
Sunate Surbkar¹, Rawin Surbkar², Chanida Bupata¹, Sujinda Khunakan¹, Supasan Sa-ngiamjit¹
¹ Faculty of Engineering and Agro-industry, Maejo University, Thailand,
² 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

Chair: Vo Anh Khoa Do Can Tho University

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

Vo Anh Khoa Do¹, Edudard Murani², Siriluck Ponsuksili², Ronald Brunner², Thi Dieu Thuy Nguyen³, Klaus Wimmers²

¹Can Tho University, ²Institute for Genome Biology at the Leibniz Institute for Farm Animal Biology,

³Vietnam Academy of Science and Technology

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

Vanessa Viterbo^{1,2}, Bryan Irvine Lopez¹, Taehun Kim¹, Kang Seok Seo¹, Hyunsung Kang¹, Choulwon Song¹

¹Suncheon National University, ²Central Luzon State University

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

Toshihiro Okamura^{1,2}, Hiroshi Kadowaki³, Chihiro Shibata³, Eisaku Suzuki³, Ayumi Mikawa⁴, Toshimi Matsumoto⁵, Hirohide Uenishi⁶, Osamu Sasaki¹, Keiichi Suzuki², Masahiro Satoh²

¹Institute of Livestock and Grassland Science, NARO, ²Graduate School of Agricultural Science, Tohoku University,

³Miyagi Livestock Experimental Station,

⁴JATAFF-Institute, Japan Association for Techno-Innovation of Agriculture, Forestry and Fisheries,

⁵Institute of Crop Science, NARO, ⁶Institute 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 Liu¹, Fang-Yu Lai¹, En-Chung Lin¹, Yu-Hsuan Wu¹, Hsien-Shao Tsao², Shih-Chien Chin², Pei-Hwa Wang¹

¹Department of Animal Science and Technology, National Taiwan University, ²Taipei 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, JIngdong 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 Aisaku¹, Shihei Touma², Masaaki Taniguchi¹, Tomoko Eguchi-Ogawa¹, Hirohide Uenishi³, Satoshi Mikawa¹

¹Institute of Livestock and Grassland Science, NARO,

²Okinawa Prefectural Livestock and Grassland Research Center, ³Institute of Agrobiological Sciences, NARO

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

Shinya Ishihara¹, Aisaku Arakawa², Masaaki Taniguchi², Minh Luu Quang³, Lan Pham Doan³,
Ba Nguyen Van³, Satoshi Mikawa², Thu Nhu Van³, Kazuhiro Kikuchi¹

¹Institute of Agrobiological Sciences, NARO, Japan,

²Institute of Livestock and Grassland Science, NARO, Japan, ³National Institute of Animal Science, Vietnam

Oral Session 22: Poultry Science & Industry (1)

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

Chair: TBD

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-Miki¹, Maria Ulfah², Achmad Farajallah³, Muladno Muladno², Ben Dorshorst⁴,
Alison Martin⁵, Tomohiro Kono⁶

¹NODAI Genome Research Center, Tokyo University of Agriculture,

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

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

⁴Department of Animal and Poultry Sciences, Virginia Tech,

⁵The Livestock Conservancy,

⁶Department 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 Munasinghe¹, Shan Karnanayaka¹, Tilini Disanayaka¹, Gayani Herath¹, Priyantha Kumara²

¹Sabaragamuwa University of Sri Lanka, Department of Livestock Production,

²New Anthony'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 Ting¹, Yi-Cheng Lee¹, Chian-Kai Chang², Hen-Wei Wei¹

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

Oral Session 23: Animal Physiology & Anatomy

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

Chair: TBD

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 Do¹, Phuong V Tran¹, Mohammad A Bahry¹, Hui Yang¹, Guofeng Han¹, Asami Tsuchiya³, Yukio Asami³, Mitsuhiro Furuse¹, Vishwajit S Chowdhury²

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

²Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan,

³R&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 Tran¹, Vishwajit S Chowdhury², Mao Nagasawa¹, Phong H Do¹, Mohammad A Bahry¹, Hui Yang¹, Mitsuhiro Furuse¹

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

²Division 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 Tokutake¹, Keita Yamada², Satoko Hayashi², Shinichi Yonekura^{1,2,3}

¹Interdisciplinary Graduate School of Science and Technology, Shinshu University,

²Graduate school of Agriculture, Shinshu University, ³Institute 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-Mageed¹, Naoki Isobe^{2,3}, Yukinori Yoshimura^{2,3}

¹Faculty of Science Minia University Egypt, ²Graduate School of Biosphere Science Hiroshima University Japan,

³Research 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 α 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^{1,2}, Itaru Minagawa^{1,2}, Dai Sagata¹, Ali Mohammed Pitia^{1,2}, Kei Terada³, Masatoshi Shibata³, Yoshihisa Hasegawa⁴, Hiroshi Sasada⁴

¹Laboratory of Animal Reproduction and Physiology, Faculty of Agriculture, Shizuoka University, Japan,

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

³Shizuoka Swine and Poultry Experimental Station, Japan,

⁴Laboratory 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 Sawano¹, Yusuke Komiya², Riho Ichitsubo², Mako Nakamura², Ryuichi Tatsumi², Yoshihide Ikeuchi², Wataru Mizunoya²

¹Fukuoka Women's Junior College, ²Kyushu University

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

Vishwajit S Chowdhury¹, Phuong V Tran², Mohammad A Bahry², Phong H Do², Hui Yang², Guofeng Han², Mitsuhiro Furuse²

¹Division for Experimental Natural Science, Faculty of Arts and Science, Kyushu University, Japan,

²Laboratory 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

Chair: Metha Wanapat Khon Kaen

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 Kao¹, Jin-Seng Lin¹, Hung-Hsi Hu², San-Land Young¹, Shi-Yong Li¹

¹SynbioTech Inc., Taiwan, ²Department 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 Wanapat¹, Kampanat Phesatcha¹, Bounnaxay Viennasay¹, Sungchhang Kang²

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

²Agricultural 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

Pattaphorn Patthararangsarith¹, Suvit Boonprong²

¹King Mongkut's Institute of Technology Ladkrabang, ²Ministry 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 NASIR¹, Wina Elizabeth², Angga I Wayan¹, Gopar Ruslan Abdul¹

¹Centre for the Agricultural Production Technology, BPPT, Indonesia,

²Indonesia 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 Imran¹, S P S Budhi², Nono Ngadiono², D Dahlanuddin¹
¹ Faculty of Animal Science University of Mataram, Indonesia,
² 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 Uyeno¹, Makoto Mitsumori², Pradeep Malik³, Atul Kolte³, Raghavendra Bhatta³
¹ Shinshu University, ² NARO Institute of Livestock and Grassland Science,
³ 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 Panjaitan¹, S Gunadi², D Dahlanuddin², D P Poppi³, S P Quigley³
¹ Assessment Institute for Agricultural Technology, Jalan Raya Peninjauan Narmada, NTB, Indonesia,
² Faculty of Animal Science, University of Mataram, Indonesia,
³ 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 SHAH¹, Keshab Prasad Dhungana¹, Hiroki Anzai³, Yoshiaki Hayashi², Hajime Kumagai³
¹ Nepal Agricultural Research Council, Regional Agricultural Research Station, Kaski Nepal,
² Faculty of Agriculture, Meijo University, Japan, ³ Graduate School of Agriculture, Kyoto University, Japan

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

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

Chair: TBD

- 0-25-1 Effect of Saccharomyces cerevisiae Fermented Cassava Bioethanol Waste on Feed Intake, Digestibility, Rumen Fermentation and Microorganism Diversity in Dairy Calf**
 Anusorn Cherdthong¹, Chanadol Supapong¹, Anuthida Saenkamsorn¹, Metha Wanapat¹,
 Chalongs Wachirapakorn¹, Nirawan Anantasook², Pongsatorn Gunun³
¹ Khon Kaen University, ² Udon Thani Rajabhat University,
³ 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**
 Chalongs 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 Pattarajinda¹, Supakit Sunato¹, Pornchai Lowilai¹, Ngarmnit Nontaso²

¹ Department of Animal Science, Faculty of Agriculture, Khon Kaen University,

² 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 Foiklang¹, Metha Wanapat², Yanin Opatpatanakit¹, Anon Paserakung¹

¹ Faculty of Animal Science and Technology, Maejo University, Thailand,

² 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^{1,4}, Christos Frygas², Irene Mueller-Harvey², Saskia Van Laar-van Schuppen¹, Martin. W. A. Verstegen¹, Wouter. H Hendriks^{1,3}, Wilbert. F Pellikaan¹

¹ Animal Nutrition Group, Wageningen University, The Netherlands,

² Chemistry & Biochemistry Laboratory, Reading University, United Kingdom,

³ Department of Farm Animal Health, Utrecht University, The Netherlands,

⁴ 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^{1,2}, Hyatt Frobose³, Fahri Fahri¹, Darryl D'Souza⁴, Brian Leury¹, Frank Dunshea¹

¹ Faculty of Veterinary and Agricultural Sciences, University of Melbourne, Australia,

² Department of Animal Science, Universiti Putra Malaysia, Malaysia,

³ Animal Sciences and Industry, Kansas State University, USA,

⁴ 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 Miyamoto¹, Wataru Suda^{2,4}, Shinji Fukuda^{2,5}, Hisashi Masuoka⁶, Kenichi Kawada⁶, Ryo Watanabe¹, Shota Yoshikawa¹, Yasuyuki Ishikawa⁷, Minami Shibata⁷, Keisuke Kogusa⁷, Shinji Wada⁷, Masahiko Hirose⁸, Yuya Suzuki⁸, Motoaki Udagawa⁹, Toshiyuki Ito^{1,9}, Kenichi Mori^{1,3}, Hisashi Miyamoto³, Hiroshi Ohno⁵, Masahira Hattori^{4,10}, Hiroaki Kodama¹

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

⁸ Showa sangyo Ltd., ⁹ Keiyo plant engineering Ltd., ¹⁰ 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 La¹, James G. Nickerson², William W. Riley³, Phu Van Nguyen¹

¹ Institute of Animal Sciences for Southern Vietnam, ² Avivagen Inc., Canada, ³ 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

Chair: Sornthep Tumwasorn Kasetsart University

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^{1,2}, Tasuku Ogita³, Takeshi Shimosato^{1,3}

¹Interdisciplinary Graduate School of Science and Technology, Shinshu University,
²Research Fellow of the Japan Society for the Promotion of Science (JSPS),
³Institute for Biomedical Sciences, Shinshu University

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

Yoshinari Yamamoto^{1,2}, Takuma Okajima³, Tasuku Ogita⁴, Takeshi Shimosato^{1,3,4}

¹Interdisciplinary Graduate School of Science and Technology, Shinshu University,
²Research Fellow of the Japan Society for the Promotion of Science (JSPS),
³Graduate School of Agriculture, Shinshu University, ⁴Institute for Biomedical Sciences, Shinshu University

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

Angel-Amed Duron-Benitez¹, Wen-Chi Huan²

¹National Pingtung University of Science and Technology, Department of Tropical Agriculture and International Cooperation,
²National 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 Ng¹, Sheng-Yao Wang^{1,2}, Ming-Ju Chen¹

¹Department of Animal Science and Technology, National Taiwan University,
²Experimental Farm, National Taiwan University

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

Chien-Jang Huang¹, Ming-Ju Chen¹, Koichi Watanabe¹, Shirchin Demberel²

¹Department of Animal science and Technology, National Taiwan University,
²Mongolian Academy of Science, Mongolia

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

Ping-Chu Liao¹, Sheng-Yao Wang²

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

Chair: Rommel C. Sulabo University of the Philippines Los Banos

- 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 Choi¹, Abdolreza Hosseindoust¹, Suhyup Lee¹, MinJu Kim¹, YoungHwa Kim², Seung Min Oh¹, HyungBin Ham¹, Alip Kumar¹, Byung Jo Chae¹
¹Kangwon National University,
²Department 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 Pakdee¹, Kantaphat Rattanasinthuphong¹, Bundit Tengjaroenkul²
¹Department of Animal science, Faculty of Agriculture, Khon Kaen University, Thailand,
²Faculty 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 Yang¹, Ming-Huang Chen², Sheng-Chi Lin³, Yu-Ting Wu⁴, Yi-Chun Liao⁵, Shao-Yu Peng⁶

¹ Department of Mechanical Engineering, National Pingtung University of Science and Technology, Taiwan,

² Medical Device Innovation Center, National Cheng Kung University, Taiwan,

³ Center for Teaching Excellence, National Pingtung University of Science and Technology, Taiwan,

⁴ Department of Forestry, National Pingtung University of science and technology, Taiwan,

⁵ Department of Veterinary Medicine, National Pingtung University of science and technology, Taiwan,

⁶ 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

Chair: Kazuhiro Kikuchi Institute of Agrobiological Sciences, NARO

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

Muhammad Ihsan Andi Dagong¹, Cece Sumantri², Ronny Rahman Noor², Rachmat Herman², Mohamad Yamin²

¹ Hasanuddin University, ² Bogor Agricultural University

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

Fathoni Akhmad¹, Sumadi¹, Tety Hartatik¹, Mukhamad Khusnudin², Dyah Maharani¹, Nono Ngadiyono¹, Diah Tri Widayati¹, Cuk Tri Noviandi¹

¹ Faculty of Animal Science, Gadjah Mada University, ² 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 Boonyanuwat¹, Phirot Sirisom², Amnoy Phuttharatanang³

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

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

³ 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 Tuntivisoottikul¹, Kanya Jirajaroenrat²

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

² 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^{1,2}, Ampika Thongphakdee³, Chavin Chaisongkram⁴, Kanda Ponsrila⁴, Aunchisa Phoju⁴, Yoswaris Semaming⁵, Wuttigrai Boonkum^{1,2}, Mongkol Techakumphu⁶
¹ Department of Animal Science, Faculty of Agriculture, Khon kaen University, Thailand,
² Thermo-tolerance Dairy Cattle Research Group, Khon Kaen University, Thailand,
³ Wildlife Reproductive Innovation Center, Bureau of Conservation and Research, Zoological Park Organization, Thailand,
⁴ Department of Research, Conservation and Animal Health, Khon Kaen Zoo, Thailand,
⁵ Veterinary Technology Program, Faculty of Technology, Udon Thani Rajabhat University, Thailand,
⁶ 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 Fajri¹, Irma Isnafia Arief², Henny Nuraini²
¹ National Pingtung University of Science and Technology, Taiwan, ² 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 LI¹, Chunxiang PIAO², Hirohiko IITSUKA¹, Shigeru HASEGAWA¹, Masanori IKEDA¹, Tomotsugu TAKAHASHI¹, Yoshinosuke FUKUMOTO⁴, Natsuko KOBAYASHI³, Atsushi HIROSE³, Keitaro TANOI³, Keiichiro MAEDA⁴

¹ Animal Resource Science Center, Graduate School of Agricultural and Life Sciences, The University of Tokyo,

² Department of Agricultural Resources and Environment, Faculty of Agricultural, Yanbian University,

³ Graduate School of Agricultural and Life Sciences, The University of Tokyo,

⁴ 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 Kaewthaworn¹, Ronachai Sitthigripong¹, Chanporn Chaosap², Kamon Chaweewan³

¹ Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

² Faculty of Industrial Education, King Mongkut's Institute of Technology Ladkrabang, Thailand,

³ 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 Panatuk¹, Wantamas Jantasin¹, Kridda Chukiatsiri¹, Tanom Tathong³, Suthipong Uriyapongson³

¹ Faculty of Animal Science and Technology, Maejo University, Thailand,

² Program in Food Technology, Faculty of Agriculture and Technology, Nakhon Phanom University, Thailand,

³ 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 Takizawa¹, Yasunori Baba², Chika Tada¹, Yasuhiro Fukuda¹, Yutaka Nakai¹

¹Laboratory of Sustainable Animal Environmental Science, Graduate School of Agricultural Science, Tohoku University, Japan,

²Research 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 Nanung¹, Amalia Ditasari¹, Erwanto Yuny¹, Pertiwinigrum Ambar¹, Triatmojo Suharjono¹, Bachruddin Zaenal¹, Wihandoyo¹, Tomoyuki Nakagawa², Takashi Hayakawa²

¹Faculty of Animal Science Gadjah Mada University Indonesia,

²Faculty 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 Bahry¹, Vishwajit S Chowdhury², Hui Yang¹, Phuong V Tran¹, Phong H Do¹, Guofeng Han¹, Mitsuhiro Furuse¹

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

²Division 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 Chukerd¹, Pongchan Na-Lampang², Putthaporn Pumrojana¹, Nantiya Saetiew¹, Watchara Ninphet¹

¹Division of Animal Science, Faculty of Science and Technology, Muban Chombueng Rajabhat University,

²School 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

Chair: Manoj Kumar Gendley College of Veterinary Science and A.H., Chhattisgarh Kamdhenu University

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 Seesawhea¹, Pornpan Saenphoom¹, Smerjai Bureenok², Anan Chaokaur¹, Suphavadee Chimtong¹, Attapol Tiantong¹

¹ Faculty of Animal Sciences and Agricultural Technology, Silpakorn University,
² 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 Orden¹, Romero Loretta², Del Rosario Neal¹, Galamgam Jovani¹, Gonzales Rhanny¹
¹ Central Luzon State University, ² Benguet State University

0-32-4 NUTRIENT CONTENT OF COMPLEAT FEED BASE ON FERMENTED OF PALM OIL FROND FOR RUMINANT

Astuti Tri¹, Yelni Gusni^{1,6}, Rofiq M. Nasir², Santoso Urip Santoso³, Amir Yusrizal⁴

¹ Muara Bungo University, ² Agency for The Assessment and Application of Technology (BPPT),
³ Bengkulu University, ⁴ 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 Mohamed¹, Rozaini Abdul Rahman², Mohd Mokhtar Arshad¹, Mohd Sharif Salleh³, Abd Rahman Aziz¹

¹ Universiti Malaysia Kelantan (UMK), ² Maamor Dairy Sdn. Bhd., ³ 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

Chair: Pin Chanjula Prince of Songkla University

- 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 Utomo¹, Lies Mira Yusiati¹, Cuk Tri Noviandi¹, Aryogi², Isnandar³
¹Faculty of Animal Science, Universitas Gadjah Mada, Indonesia, ²Indonesian Beef Cattle Research Station, Indonesia, ³National 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 Pilajun¹
¹Department of Animal Science, Faculty of Agriculture, Ubon Ratchathani University, Thailand, ²Department 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^{1,2}, Evert Hosang², Debora Kana Hau², Yanto Liunokas², Yendri Aby², Yakobus Uran², Kendrick Cox²
¹Department of Agriculture and Fisheries (Queensland), ²Departemen 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, Wiriya 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 Arfan¹, Makoto Kondo², Tomomi Ban-Tokuda², Hiroki Matsui²

¹Department of Animal Science, Agriculture Faculty of Sriwijaya University, Indonesia,

²Graduate 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 Lili¹, Suyitman¹, Evitayani¹, Fariani Armina²

¹Department of Animal Nutrition and Feed Technology, Fac. of Animal Science Andalas University, Indonesia,

²Department 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 Kuo¹, Yi-Ming Wang², I-Lin Tsai², Chia-Neng Chung², Wan-Ying Chen², Han-Tsung Wang³, Mei-Fong Lin¹

¹National Taiwan University, ²Taipei Zoo, ³Chinese 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 Wongtangintharn¹, Winai Jaikan¹, Jowaman Khajarern¹, Nattaya Banglarp², Pairat Thitisak²

¹Khon Kaen University, ²K.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 Gallarde¹, Maria Excelsis Orden¹, Aubrey Balbin², Ana Marie Alo³, Jamilla Fatima Saturno¹, Frederick Godoy¹

¹Central Luzon State University, ²Isabela State University,

³Philippine 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- κ 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 thermographyTohru Suzuki¹, Yuichi Yoshinaga², Masafumi Miyata², Syoichi Kimura², Ken Katsuda¹¹National Institute of Animal Health, NARO, ²Nippon Avionics Co., Ltd.**0-35-3 Internal parasite control in large ruminants by use of anthelmintic medicated urea molasses blocks**Peter Windsor¹, Teresa Nemanic¹, Nicole Selwood¹, Nichola Calvani¹, Syseng Nampanya², Sothoeun Suon³, Russell Bush¹

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 MEDINA¹, Jose Vien Blas¹, Virginia Venturina¹, Claro Mingala²¹Central Luzon State University, College of Veterinary Science and Medicine, ²Philippine Carabao Center**0-35-6 Preculture freezing and incubation on bacteriological isolation from subclinical mastitis milk samples in dairy cows**Tipwadee Prapaiwong^{1,2}, Chaiwat Jarassaeng², Chalong Wachirapakorn¹, Arunee Ritthiphphanan²¹Departure of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,²Department 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

Chair: TBD

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^{1,2}, Sarwar Jahan Syed¹, Md. Saiful Islam³, Md. Akhtarul Islam¹

¹ Department of Animal Husbandry and Veterinary Science, University of Rajshahi, Bangladesh,

² Research Institute for Applied Mechanics, Kyushu University, Japan,

³ Department of Zoology, University of Rajshahi, Bangladesh

0-36-3 Analysis of growth curves in Betong chicken

Mongkol Thepparat¹, Sunee Trimanee², Pitchayanipa Klomtong³, Santi Mhadmhan¹

¹ Songkhla Rajabhat University, ² Department of Livestock Development, ³ Prince of Songkla University

0-36-4 Phenotypic and functional differences among γ δ T cell subsets in chicken

Min Jeong Gu¹, In Kyu Lee¹, Kwang Hyun Ko¹, Girak Kim¹, Tae Sub Park², Byung-Chul Park², Cheol-Heui Yun^{1,2}

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

² 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-Methoxyflavanone 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 Sinar¹, Tuty Maria Wardiny¹, Anuraga Jayanegara²
¹Departement of Agribusiness, Open University of Indonesia,
²Departement 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 Wardiny¹, Wiranda Gentini Piliang², Latifah K. Darusman³, Anuraga Jayanegara²
¹Departement of Agribusiness, Open University of Indonesia,
²Departement of Nutrition and Feed Technology, Bogor Agricultural University, Indonesia,
³Departement of Chemistry, Bogor Agricultural University, Indonesia

Oral Session 37: Animal Reproduction (3)

Thursday, 25 August 14:00-16:00 Room N202

Chair: Naoko Kimura Laboratory of Animal Reproduction, Graduate School of Agricultural Science

- 0-37-1 IDENTIFICATION OF REPRODUCTIVE PERFORMANCE OF ETTAWA CROSSED BREED GOATS ON DIFFERENT BODY CONDITION SCORE USING VAGINAL SMEAR**
 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⁺² INTENSITY CHARACTERS OF LOCAL INDONESIAN GOAT SPERM AFTER FREEZING BY NONCONVENTIONAL METHODS OF CRYOPRESERVATION**
 Gatot Ciptadi^{1,2,3}, Agus Budiarto¹, Sri Rahayu², Sri Wahjuningsih¹, Muhammad Nasich¹,
 Muhammad Nur Ihsan¹, Fatchiyah Fatchiyah², G. Ciptadi Mudawamah³
¹ Faculty of Animal Husbandry, Brawijaya University, ² Faculty of Basic Sciences, Dept Of Biology, Brawijaya University,
³ 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 Thepparat¹, Jitthasak Maungkhiow², Chanyut Kaphol², Jakkapop Chansaad²,
 Narong Leingcharoen², Sittirak Roytrakul³
¹ Prince of Songkla University, Thailand, ² Department of Livestock Development, Thailand,
³ 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 Fukushima¹, Keigo Nakamura², Kazuhiko Imakawa², Yoshihito Suda¹

¹Miyagi University School of Food, Agricultural and Environmental Sciences,

²The 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^{1,6}, Yuki Hoshino¹, Ren Watanabe^{1,6}, Yoka Okabe¹, Motoko Takahashi², Satoshi Miyata³, Aya Umeno⁴, Yasukazu Yoshida⁴, Junichi Fujii⁵

¹Laboratory of Animal Reproduction, Graduate School of Agricultural Science, Yamagata University,

²Department of Biochemistry, Sapporo Medical University School of Medicine,

³Department of Internal Medicine, Osaka Hospital, Japan Community Healthcare Organization,

⁴Health Research Institute, National Institute of Advanced Industrial Science and Technology (AIST),

⁵Department of Biochemistry and Molecular Biology, Graduate School of Medical Science, Yamagata University,

⁶Laboratory 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^{1,2}, Itaru Minagawa^{1,2}, Hiroshi Sasada³, Kazuyoshi Hashizume⁴, Tetsuya Kohsaka^{1,2}

¹Laboratory of Animal Reproduction and Physiology, Faculty of Agriculture, Shizuoka University, Japan,

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

³Laboratory of Animal Reproduction, School of Veterinary Science, Kitasato University, Japan,

⁴Laboratory 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 H¹, Herath H M G P¹, Damith Udayanga²

¹Sabaragamuwa University of Sri Lanka, Belihuloya, Sri Lanka, ²Nelna Farm Pvt Ltd, Sri Lanka

0-38-4 The Physicochemical Properties of Refined Duck Fat in Taiwan

Hsin-Jung Lee¹, You-Ting Chiu², Meng-Ru Lee¹

¹Animal Products Processing Division, Livestocks research Institute, Taiwan,

²Shin-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 Agustin¹, Meity Sompie², Nurmelita Taher¹, Erwin H B Sondakh², Christina Yunus²

¹ Faculty of Fisheries and Marine Sciences, Sam Ratulangi University,

² 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 Radiati¹, Firman Jaya¹, Dita Eka Oktavianingtyas², Fayca²

Brawijaya University

0-38-7 Fukuoka Livestock Hygiene Service Center supports hygiene of Hakata Wagyu

Riki Hiromatsu¹, Kyohei Hamada¹, Hiroki Ito¹, Tatsuro Hifumi¹, Torata Ogawa¹, Hiroaki Ryuo², Yoshihiro Iozaki¹, Kazuki Ishibashi¹, Kazuhiko Imamura²

¹ Fukuoka Livestock Hygiene Service Center, ² 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 Tahuk¹, Subur Priyono Sasmito Budhi², Panjono Panjono², Endang Baliarti²

¹ Timor University, ² Gadjah Mada University

0-38-9 Participation of local Sumbawese and Balinese migrant women in cattle production system in Sumbawa eastern Indonesia

S R Thei¹, Y A Akhyar², H Hermansyah², L Xie³, M Cosijn³

¹ Faculty of Agriculture University of Mataram, Indonesia,

² Faculty of Animal Science University of Mataram, Indonesia, ³ CSIRO Australia, Australia

0-38-10 Changes in bali cattle production systems in sumbawa, eastern indonesia and the implications on feed supply systems

H Hermansyah¹, Y A Sutaryono¹, D H Sofyan¹, S H Dilaga¹, L Xie², M Cosijn²

¹ Faculty of Animal Science University of Mataram, Indonesia, ² CSIRO Australia, Australia

Oral Session 39: Feeds & Feeding (Ruminants) (4)

Thursday, 25 August 14:00-16:00 Room N301

Chair: TBD

0-39-1 Supplementation of mineral (Phosphor and Sulfur) and *Saccharomyces cerevisiae* in diet based of Cocoa by product of Sheep

Mardiati Zain, Irsan Ryanto, Erpomen Erpomen

Andalas University

0-39-2 Effect of alfalfa hay feeding on nitrogen utilization of Simmental beef cattle kept in Gansu province, China

Toshiyoshi Ichinohe¹, Atsushi Tsunekawa², Tianhai Yan³, Xianjiang Chen⁴, Fujiang Hou⁴, Nobuyuki Kobayashi²

¹ Faculty of Life and Environmental Science, Shimane University, Japan,

² Arid Land Research Center, Tottori University, Japan,

³ Agri-Food and Biosciences Institute, UK,

⁴ College of Pastoral Agriculture Science and Technology, Lanzhou University, China

0-39-3 Yield and forage quality in the canopy of napiergrass genotypes

Hamid Kadwal¹, Yasuyuki Ishii², Yusuke Iki³, Sachiko Idota²

¹Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki,

²Faculty of Agriculture, University of Miyazaki, ³Graduate 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 Deshani¹, H M Gayani Priyadarshani Herath¹, Sumudu Dissanayake²

¹Department of Livestock Production Faculty of Agricultural Sciences, Sabaragamuwa University of Sri Lanka, Sri Lanka,

²Gold Coin Feed Mills (Lanka), Sri Lanka

0-39-6 Effect of different long-term storage with rice bran-CaCO₃ 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 Kumagai¹, Yoshiaki Sato¹, Motoharu Takeda², Takashi Nakanishi¹, Lin Wang¹, Kazato Oishi¹, Hiroyuki Hirooka¹

¹Graduate School of Agriculture, Kyoto University, ²Ajinomoto Co., Inc.

0-39-9 SILAGE QUALITY OF BMR SORGHUM AND SWEET SORGHUM GROWTH ON SEDIMENTATION ULTISOL SOIL

Widhi Kurniawan^{1,3}, Syam Rahadi¹, Rahman Rahman¹, Luki Abdullah², Panca Dewi², Suprianto Suprianto³

¹Faculty of Animal Science, Universitas Halu Oleo, ²Faculty of Animal Science, Bogor Agricultural University,

³SEAMEO Biotrop

0-39-10 CHALLENGES FOR IMPROVING BEEF SUPPLY WHERE LARGE RUMINANT REPRODUCTIVE MANAGEMENT IS ABSENT

Russell David Bush¹, Nina Matsumoto¹, Sonevilay Nampanya¹, Syseng Khounsy², James Robert Young¹, Katherine Ashley¹, Peter Andrew Windsor¹

¹University of Sydney, Faculty of Veterinary Science, ²Department of Livestock and Fisheries, Lao PDR

Oral Session 40: Animal Nutrition (Ruminants) (4)

Thursday, 25 August 14:00-16:00 Room N302

Chair: Lies Mira Yusiati Universitas Gadjah Mada

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 Chanjula¹, Vasun Petcharat², Puwadon Hamchara¹, Anusong Cherdthong³
 Prince of Songkla University
- O-40-3 Nutritional Status of Kacang Goats Fed Ruminally Undegradable Protein to Improve their Productivity**
A Kustantinah¹, Edwin Indarto¹, Rusman¹, I Gede Suparta Budisatria¹, Retno Adiwiniarti²
¹ Universitas Gadjah Mada, Indonesia, ² 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^{1,2}, Thomas Schonewille³, Chalermpon Yougklang⁴, Wouter Hendriks^{1,3}
¹ Department of Animal Sciences, Wageningen University, The Netherlands,
² Department of Animal Science, Faculty of Natural Resources, Rajamangala University of Technology Isan, Sakon-Nakhon Campus, Thailand,
³ Animal Nutrition division, Department of Farm Animal Health, Faculty of Veterinary Medicine, Utrecht University, The Netherlands,
⁴ 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 Sugahara¹, So Satoh¹, Alam Mohammad Rashedul², Naohiro Nihei¹, Yoshizawa Fumiaki¹

¹Utsunomiya University, ²Chittagong 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 Raihan¹, Atsushi Takenouchi¹, Masaoki Tsudzuki^{1,2}, Shin-Ichi Kawakami^{1,2}

¹Graduate School of Biosphere Science, Hiroshima University,
²Japanese 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 Nigar¹, Takeshi Shimosato^{1,2}, Abu Torab Md. Abdur Rahim³

¹Interdisciplinary Graduate School of Science and Technology, Shinshu University,
²Institute for Biomedical Sciences, Shinshu University, ³Institute 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 Kodama¹, Fortune Jomane², Kensuke Okuhata¹, Takumi Totsu¹, Takafumi Ishida¹, Tadaaki Tokunaga¹
¹ Faculty of Agriculture, University of Miyazaki,
² 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 Lai¹, Yi-Ying Chang², Pei-Hwa Wang¹, Hsiu-Chou Liu², En-Chung Lin¹, Shih-Torng Ding¹
¹ Department of Animal Science and Technology, National Taiwan University,
² 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^{1,2}, Ya-Chun Kang¹, Miao-Ju Chien¹, Pei-Mei Chen³, Ling-Ling Lo¹
¹ Department of Animal Science, Chinese Culture University, Taiwan,
² Department of Biotechnology and Animal Science, National Ilan University, Taiwan,
³ 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 Park¹, Seung-Hoon Eum¹, Seung-Hee Roh², Jakyeom Seo¹, Seong-Keun Cho¹, Byeong-Woo Kim¹
¹ Dept. of Animal Science, Pusan National University, Korea,
² 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 WU¹, SHU-HAN DING¹, LING-LING LO², SHYH-FORNG GUO³, PEI-YU LIN³, GUI-ZHU LIU⁴, PEI-MEI CHEN⁵, NEIM-TSU YEN⁶, CHONG-SHU WANG⁵, ZHONG-XING CHEN⁵, EN-CHUNG LIN¹
¹ Department of Animal Science and Technology, National Taiwan University,
² Department of Animal Science, Chinese Culture University,
³ Animal Technology Laboratories, Agricultural Technology Research Institute,
⁴ Formosan Farmers Association for Swine Improvement,
⁵ Council of Agriculture, Executive Yuan,
⁶ 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^{1,2}, Hoon-Seop Kim¹, Kang-Seok Seo¹, Tae-Hun Kim¹, Hyun-Sung Kang¹,
Chul-Won Song¹, Vanessa Viterbo¹, Bryan Lopez¹

¹ Department of Animal Science and Technology, Suncheon National University, Korea,

² Department of Research and Specialist Services, Zimbabwe

PO-01-9 The effect of knockdown of IFNAR by RNAi on expression of IFN- τ induced genes in bovine endometrial epithelial cells

Takahiro Shirozu¹, Toshiyuki Suzuki¹, Hiroki Iwano¹, Takatoshi Ogiso¹, Hanako Bai¹, Manabu Kawahara¹,
Koji Kimura², Masashi Takahashi¹

¹ Research Faculty of Agriculture, Hokkaido University,

² 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 Lin¹, Yi-Ying Chang², Hsiu-Chou Liu², Jen-Chieh Yang¹, Zhen-Ying Wu¹, Yi-Chen Chen¹

¹ Department of Animal Science and Biotechnology, Tunghai University, Taiwan,

² 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^{1,2}, Chiung-Ying Yin², Pei-Hwa Wang²

¹ Hengchun Branch, Livestock Research Institute, C.O.A., Taiwan,

² 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 Oyama¹, Kazutaka Nishi², Kiyoto Imamura³, Shinichi Sakamoto³, Kotaro Kawabe⁴, Shin Okamoto¹,
Takeshi Honda⁵, Kenji Oyama⁵, Takeshi Shimogiri¹

¹ Kagoshima University, Faculty of Agriculture,

² Wagyu Registry Association,

³ Wagyu Registry Association, Kagoshima Branch,

⁴ Kagoshima University, Natural Science Centre for Research and Education,

⁵ 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^{1,3}, Ryo Inoue², Yuki Kawada², Shozo Tomonaga⁴, Kiyonori Kawasaki⁵, Mitsuhiro Furuse³,
Takamitsu Tsukahara^{1,2}

¹ Kyoto Institute of Nutrition & Pathology, Ujitawara, Kyoto, Japan,

² Laboratory of Animal Science, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Japan,

³ Laboratory of Regulation in Metabolism and Behavior, Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University, Japan,

⁴ Laboratory of Nutritional Science for Animals, Division of Applied Biosciences, Graduate School of Agriculture, Kyoto University, Japan,

⁵ 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 Truong¹, Yeojin Hong¹, Cong Thanh Hoang¹, Yeong Ho Hong¹, Hyun S Lillehoj²

¹ Chung-Ang University, ² 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 Tahara¹, Kenichi Nagai¹, Isao Hyodo², Sadao Kojima², Hisashi Ushugi², Koh Nomura¹,

Yukimizu Takahashi¹, Eiji Kobayashi^{1,3}, Tsutomu Furukawa¹

¹ Graduate School of Agriculture, Tokyo University of Agriculture,

² Ome Center for Animal Husbandry, Tokyo Development Foundation for Agriculture, Forestry, and Fisheries,

³ 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 Sultana¹, Dong-Won Seo¹, Nu-Ri Choi¹, Kang-Nyeong Heo², Seung Hwan Lee¹, Jun-Heon Lee¹

¹ Division of Animal and Dairy Science, Chungnam National University, Korea,

² 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 Moe¹, Misao KANEMAKI², Yoshi KAWAMOTO³, Kotaro KAWABE⁴, Shin OKAMOTO^{1,5},

Takeshi SHIMOGIRI^{1,5}

¹ The United Graduate School of Agricultural Sciences, Kagoshima University,

² Institute of Animal Science,

³ Primate Research Institute, Kyoto University,

⁴ Natural Science Centre for Research and Education, Kagoshima University,

⁵ 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 University

PO-01-22 Origin of a porcine SNP of prolactin receptor gene

Tomomi Aratani¹, Keiko Takeuchi¹, Syuichi Hamada¹, Yaetsu Kurosawa², Satoru Niwata³,

Takeshi Simogiri⁴, Hiroshi Yasue⁵, Masahide Nishibori¹

¹ Hiroshima University Graduate School of Biosphere Science, Japan, ² Tokyo University of Agriculture, Japan,

³ KURABO, Japan, ⁴ Kagoshima University, Japan, ⁵ Tsukuba Gene Technology Laboratories Inc, Japan

PO-01-23 Identification of transcribed quail Mhc class II β loci of haplotype*01 via amplicon sequencing of cDNA by next generation sequencer

Sakurako Asaji¹, Shingo Suzuki², Kazuyoshi Hosomichi³, Hiromi Hara¹, Takashi Hirano¹, Takashi Shiina²,

Kei Hanzawa¹

¹ Tokyo University of Agriculture, ² Tokai University School of Medicine, ³ Kanazawa University

PO-01-24 Study on domestication process of Asian junglefowls

Yuto Kurosawa¹, Sayed A.-M Osman^{1,2}, Yoshio Yamamoto¹, Masahide Nishibori¹

¹ Graduate School of Biosphere Science, Hiroshima University, ² Faculty of Agriculture, Minia University, Egypt

PO-01-25 Morphological and molecular phylogenetic analysis of Ryukyu wild boar

Keiko Takeuchi¹, Shuichi Hamada¹, Tomomi Aratani¹, Maho Ito¹, Yaetsu Kurosawa², Masaru Takada³, Satoru Niwata⁴, Takeshi Shimogiri⁵, Shin Watanabe⁶, Hiroshi Yasue^{7,8}, Masahide Nishibori¹

¹ Graduate School of Biosphere Science, Hiroshima University, Japan, ² Tokyo University of Agriculture, Japan, ³ Okinawa Zoo and Museum, Japan, ⁴ KURABO, Japan, ⁵ Kagoshima University, Japan, ⁶ Iriomote Station, Tropical Biosphere Research Center University of the Ryukyus, Japan, ⁷ National Institute of Agrobiological Sciences, Japan, ⁸ Tsukuba Gene Technology Laboratories Inc, Japan

PO-01-26 Relationship between IAPP exon polymorphisms and carcass-related traits

Takashi Ono¹, Hiroki Ushijima¹, Atsushi Takenouchi¹, Masaoki Tsudzuki^{1,2}

¹ Graduate School of Biosphere Science, Hiroshima University, ² Japanese Avian Bioresource Project Research Center, Hiroshima University

PO-01-27 Study on molecular discrimination for animal species using DNA polymorphism

Fumika Ito¹, Ryouki Onishi¹, Yuki Yamashita², Yasue Hiroshi^{3,4}, Masahide nishibori¹

¹ Hiroshima University Graduate School of Biosphere Science, ² KURABO INDUSTRIES LTD., ³ National institute of Agrobiological Sciences, ⁴ Tsukuba Gene Technology Laboratories Inc.

PO-01-28 Development of a novel laparoscopic artificial insemination equipment for goats

Ting-Chieh Kang^{1,2}

¹ Animal Physical Division of Council of Agriculture-Livestock Research Institute, ² 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 Takahashi¹, Nobuyuki Sakurai², Natsuko Emura¹, Tsutomu Hashizume^{1,2}, Ken Sawai^{1,2}

¹ Faculty of Agriculture, Iwate University, ² 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 Emura¹, Nobuyuki Sakurai², Kazuki Takahashi¹, Tsutomu Hashizume^{1,2}, Ken Sawai^{1,2}

¹ Faculty of Agriculture, Iwate University, ² 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^{1,2}, Shen-Ming Zeng², Teruo Maeda¹

¹ Hiroshima University, ² China Agricultural University

PO-01-35 Restriction of lactation at neonatal stage increases number of primordial follicles in mice.

Ren Watanabe¹, Naoko Kimura^{1,2}

¹ Laboratory of Animal Reproduction, United Graduate School of Agricultural Sciences, Iwate University, ² 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 Tamura¹, Satoshi Akagi², Shin Hongo¹, Akihiko Ichikawa³, Toshinori Oikawa⁴, Loi Pasqualino⁵, Kazutsugu Matsukawa¹

¹ Faculty of Agriculture and Marine Science, Kochi University, ² Institute of Livestock and Grassland Science, NARO, ³ Department of Mechatronics Engineering, Meijo University, ⁴ Miyagi Prefectural Livestock Experiment Station, ⁵ 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 Jian¹, Min-Jung Lin², Shen-Chang Chang², Chuen-Yu Cheng¹, Zi-Xuan Zhuang¹, Chao-Jung Chen^{3,4}, San-Yuan Huang^{1,5,6,7}

¹ Department of Animal Science, National Chung Hsing University, ² Changhua Animal Propagation Station, Livestock Research Institute, Council of Agriculture, ³ Proteomics Core Laboratory, Department of Medical Research, China Medical University Hospital, ⁴ Graduate Institute of Integrated Medicine, China Medical University, ⁵ Agricultural Biotechnology Center, National Chung Hsing University, ⁶ Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University, ⁷ Center of Nanoscience and Nanotechnology, National Chung Hsing University

PO-01-39 Characteristics of bovine fibroblast cells after freeze drying

Shin Hongo¹, Shinnosuke Tamura¹, Satoshi Akagi², Akihiko Ichikawa³, Toshinori Oikawa⁴, Keisuke Edashige¹, Kazutsugu Matsukawa¹

¹ Faculty of Agriculture and Marine Science, Kochi University, ² Institute of Livestock and Grassland Science, NARO, ³ Department of Mechatronics Engineering, Meijo University, ⁴ 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^{1,2}, Y. M. Horng², L. R. Chen¹, C. P. Wu²

¹ Taiwan Livestock Research Institute, Council of Agriculture, ² National Chiayi University

PO-01-42 Aging and additive oxidative stress influences female ovarian functions in mice

Momoko Kodaira¹, Hiromi Ikeda¹, Yamaguchi Takeshi¹, Yamauchi Nobuhiko², Chowdhury Vishwajit S.³, Shinobu Yasuo¹, Mitsuhiko Furuse¹

¹ Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University, Japan, ² Laboratory of Animal Reproductive Physiology, Faculty of Agriculture, Kyushu University, Japan, ³ 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 Kawakami¹, Saki Tanabe², Chikako Tani³, Hiromu Katamoto³, Shuichi Ito², Yosuke Sasaki³, Tadaaki Tokunaga³, Mineto Tani²

¹ Graduate School of Agriculture, University of Miyazaki, ² Faculty of Agriculture, Tokai university, ³ 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^{1,2}, Taku Okamura¹, Tatsuya Ando³, Katsuro Hagiwara¹

¹ Rakuno Gakuen University School of Veterinary Medicine, ² Scientific Feed Laboratory co.,Ltd., ³ Veterinary Clinical Center, Ishikari district NOSAI Hokkaido

PO-01-45 Temporal alternations in DNA methylation patterns of spermatozoa in early young mice

Norio Kobayashi¹, Hiroaki Okae², Hitoshi Hiura², Hatsune Chiba², Yoshiki Shirakata¹, Kenshiro Hara¹, Takahiro Arima², Kentaro Tanemura¹

¹ Tohoku University Graduate School of Agricultural Science, ² 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 Kamoshita¹, Anucha Sathanawongs³, Katsuyoshi Fujiwara¹, Tsubasa Kato¹, Masahiko Hirose¹, Junya Ito^{1,2}, Naomi Kashiwazaki^{1,2}

¹ Graduate School of Veterinary Sciences, Azabu University, ² School of Veterinary Medicine, Azabu University, ³ 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^{1,2}, Borjigin Sarentonglaga¹, Kazuko Ogata^{1,3}, Mio Yamaguchi^{1,2}, Asuka Hara^{1,2}, Khurchabiling Atchalalt^{1,2}, Mikio Wakabayashi⁴, Kenji Nishihara⁴, Rika Fukumori¹, Yoshikazu Nagao^{1,2}

¹ University Farm, Faculty of Agriculture, Utsunomiya University, Japan, ² Department of Animal Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan, ³ Collaboration Center for Research and Development of Utsunomiya University, Japan, ⁴ 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^{1,2}, Kouske Tashiro³, Hironori Masaka¹, Md. Rashedul Islam^{1,4}, Nobuhiko Yamauchi¹

¹ Department of Animal and Marine Bioresource Sciences, Faculty of Agriculture, Kyushu University, Japan,

² Department of Animal Science Agriculture Faculty Balkh University Afghanistan,

³ Department of Bioscience and Biotechnology, Faculty of Agriculture, Kyushu University, Japan,

⁴ 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 Lee¹, Li-Ping Lai¹, Wei-Chih Lin¹, Jhih-Ying Ciou², Bi Yu¹, Tzu-Tai Lee¹

¹ Department of Animal Science, National Chung Hsing University,

² Department of Food Science, Tung Hai University

PO-01-53 Oral administration of β -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 YAMAMOTO¹, Yoshie AKIBA¹, Hiroshi HIKI¹, Shotaro SHIMIZU², Atsushi ASANO^{1,3},
Naoto ISHIKAWA^{1,3}, Atsushi TAJIMA^{1,3}

¹ Agricultural and Forestry Research Center, University of Tsukuba, Japan,

² College of Agro-bioresources, University of Tsukuba, Japan,

³ 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 Maroof¹, Takao Oka¹, Mika Fujihara², Norikazu Hashimoto², Takashi Bungo¹

¹ Graduate School of Biosphere Science, Hiroshima University,

² 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 Huang¹, Po-Yun Teng¹, Shen-Chang Chang², Bi Yu¹, Tzu-Tai Lee¹

¹ Department of Animal Science, National Chung Hsing University, Taiwan,

² 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 Chen¹, Jih-Tay Hsu¹, Wei-Yuan Shih², Han-Tsung Wang²

¹ Department of Animal Science and Technology, National Taiwan University,

² 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 Rau¹, Je-Ruei Liu^{1,2}

¹ National Taiwan University School of Animal Science,

² 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 Chen¹, Yi-Hua Huo¹, Ruey-Shyang Chen², Kuo-lung Chen¹

¹ Department of Animal Science, National Chiayi University, Taiwan,

² 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 Tanabe¹, Masaaki Hanada², Tetsuro Hada³, Akira Matsui³, Fumio Sato³, Masataka Tominari³, Harutaka Murase³, Toshiyuki Takahashi⁴, Masahito Kawai⁵

¹ Graduate School of Environmental Science, Hokkaido University,

² Obihiro University of Agriculture and Veterinary Medicine,

³ Hidaka Training and Research Center, Japan Racing Association,

⁴ Equine Research Institute, Japan Racing Association,

⁵ 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 Shimizu¹, Yoshinori Komaki¹, Mika Fujihara², Norikazu Hashimoto², Takashi Bungo¹

¹ Hiroshima University, ² 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 Honma¹, Kazumi Kita²

¹ Iwate University Graduate School of Agriculture, ² 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^{1,2}, Fang-Chueh Liu¹, Chien-Hsun Huang³

¹ Livestock Research Institute, Council of Agriculture, Executive Yuan, Taiwan,

² Department of Animal Science and Technology, National Taiwan University, Taiwan,

³ Bioresource Collection and Research Center, Food Industry Research and Development Institute, Taiwan

PO-01-70 Goblet cell population modulated by Schizosaccharomyce pombe particle

Nao Idegami¹, Kiyonori Kawasaki¹, Yoshiya Izumi², Naotaka Tanaka¹, Peter Lutes¹, Yoshiki Matsumoto¹

¹ Kagawa University, Faculty of Agriculture, ² Biomaterial in Tokyo Co.,Ltd

PO-01-71 Expression of Pigeon Leptin in vitro with Determination of Biological Activity

Sadequallah 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 Tajiri¹, Masato Aoyama¹, Masatoshi Ihara², Shoei Sugita¹

¹ Utsunomiya University Faculty of Agriculture, ² Eqpic Riding Club

PO-01-73 Aptitudes of Ashitaba (Angelica Keiskei Koidzumi) Supplementation on the physiological responses in lactating Holstein-Friesian cows

Kobra HEMMATY¹, Shoichiro SUZUKI¹, Soichi ISHIDA², Yoshitaka WACHI³, Tomonari YAMAMOTO⁴, Yoshie AKIBA⁴, Hiroshi HIKI⁴, Hitoshi MIYAZAKI⁵, Atsushi ASANO^{4,5}, Naoto ISHIKAWA^{4,5}, Atsushi TAJIMA^{4,5}

¹ Graduate School of Life and Environmental Sciences, University of Tsukuba, Japan (Equal contribution),

² Snow Brand Seed Co.Ltd. Japan,

³ Nougakuken Center Co.,Ltd. Japan,

⁴ Agriculture and Forestry Research Center, University of Tsukuba, Japan,

⁵ 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 Murata¹, Itaru Minagawa^{1,2}, Ali Mohammad Pitia^{1,2}, Hiroyuki Sukigara¹, Masatoshi Shibata³, Hiroshi Sasada⁴, Kazuyoshi Hashizume⁵, Tetsuya Kohsaka^{1,2}

¹Laboratory of Animal Reproduction and Physiology, Faculty of Agriculture, Shizuoka University, Japan,

²Division of Animal Resource Production, The United Graduate school of Agricultural Science, Gifu University, Japan,

³Shizuoka Swine and Poultry Experimental Station, Japan,

⁴Laboratory of Animal Reproduction, School of Veterinary Medicine, Kitasato University, Japan,

⁵Laboratory 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 Park¹, Gwi-Deuk Jin², Jae In Pak^{2,3}, Eun Bae Kim^{2,3}

¹Department of Animal Life System, College of Animal Life Sciences, Kangwon National University,

²Department of Animal Life Sciences, College of Animal Life Sciences, Kangwon National University,

³Division 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^{1,2}, Mei-Ping Cheng¹, Ting-Hsun Hsiao^{1,2}, Tein-Ming Su¹, Tzong-Faa Shiao², Hsin-I Chiang²

¹Livestock Research Institute, Taiwan, ²Chung Hsing University, Taiwan

PO-01-77 Application of lactic acid bacteria bacteriocins to the antibacterial of antibiotic-resistant bacteria

Junichi Ishikawa^{1,2}, Hideki Kinoshita³, Mai Jumonji¹, Moe Hariu¹, Ayuko Yoshida¹, Ken Watanabe¹, Kohei Watanabe¹, Naomi Sasaki¹, Hisahiro Nakai¹, Toshikazu Komoda¹, Yoshihito Suda¹, Mitsuharu Ishida¹

¹Miyagi University School of Food, Agricultural and Environmental Sciences, Japan,

²Industrial Technology Institute, Japan, ³Tokai 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^{1,2}, Nobuo Saito², Shoko Tabata¹, Nassary Nooragha¹, Yuki Nakagawa¹, Genki Ishigaki¹, Kiiichi Fukuyama¹, Ikuo Kobayashi¹

¹Sumiyoshi Livestock Science Station, University of Miyazaki, ²Nishii 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 Jin¹, Jongbin Park², EunBae Kim¹

¹Department of Animal Life Sciences, Kangwon National University,

²Department 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 Sofyan¹, Yutaka Uyeno², Takumi Shinkai³, Makoto Hirako³, Shiro Kushibiki³, Makoto Mitsumori^{1,3}
¹ Graduate School of Life and Environmental Sciences, University of Tsukuba,
² Faculty of Agriculture, Shinshu University,
³ 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 Maimaiti¹, Wynn Syaw², Teramura Makoto¹, Hasiyati Tuoxunjiang³, Sato Tadashi³, Hanada Masaaki³
¹ United Graduate School of Agricultural Science, Iwate University,
² LBVD International Planning Section, Ministry of Livestock, Fisheries and Rural Development,
³ 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 Tran¹, Hoang Diep Tran², Phi Truong Nguyen³, Naoki Nishino¹
 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^{1,3}, Bo Kun Li², Sachiko Idota³, Yasuyuki Ishii³
¹ Interdisciplinary Graduate School of Agriculture and Engineering,
² Graduate School of Agriculture, University of Miyazaki, Japan,
³ Faculty of Agriculture, University of Miyazaki, Japan
- PO-02-9 Effects of feeding yuzu peel in Japanese Brown Cattle-Kochi under heat stress**
 Yukiko Iwamoto¹, Akane Iwasa¹, Yu Takenaka¹, Mitsuharu Urabe¹, Yasuo Takemura¹, Shuji Sakamoto², Takuma Higuchi², Katsuji Morioka¹, Kazumasa Kakibuchi³, Yutaka Ishida³, Kazutsugu Matsukawa¹
¹ Faculty of Agriculture and Marine Science, Kochi University,
² Science Research Center, Kochi Medical School, Kochi University, ³ 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 γ agonist that stimulates adipocyte differentiation

Fumiya Nakamura¹, Matoki Sanada¹, Ryuichi Hayashi¹, Yoshimasa Imai¹, Tomoyo Inoue¹, Shinji Ohta², Hiroyuki Kawachi¹

¹Nagahama Institute for Bioscience and Technology, ²Hiroshima University

PO-02-12 Fractionation and identification of 5-nonadecylresorcinol as an agonist of PPAR γ in soy sauce oil

Yoshimasa Imai¹, Yoshihiro Yamada¹, Matoki Sanada¹, Fumiya Nakamura¹, Tomoki Hayashi¹, Shinji Ohta², Hiroyuki Kawachi¹

¹Nagahama Institute for Bioscience and Technology, ²Hiroshima University

PO-02-13 Amino acid supplementation to diet stimulates proglucagon mRNA expression in L cells of the chicken small intestine.

Kei Nishimura¹, Kohzy Hiramatsu², Takafumi Watanabe², Ryosuke Makino³, Naoko Sasaki³, Kazumi Kita³

¹Interdisciplinary Graduate School of Science and Technology, Shinshu University,

²Faculty of Agriculture, Shinshu University, ³Faculty of Agriculture, Iwate University

PO-02-14 The unfolded protein response is required for cellular differentiation during mammary gland development

Megumi Tsuchiya¹, Yumiko Koizumi¹, Yukako Tokutake², Miwa Nakano³, Makoto Miyaji³, Hiroshi Ishizaki³, Satoshi Haga³, Shinichi Yonekura^{1,2,4}

¹Graduate school of Agriculture, Shinshu University,

²Interdisciplinary Graduate School of Science and Technology, Shinshu University,

³National Agriculture and Food Research Organization (NARO),

⁴Institute 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 Shibata¹, takaharu Kozakai², Yoshiyuki Azuma¹, Yohei Kurose¹, Tatsuyuki Takahashi¹

¹Kitasato University School of Veterinary Medicine,

²Faculty 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 Lumsangkul¹, Yang- Kuang Fan¹, Jyh-Cherng Ju^{1,2,3,4}, Hsin-I Chiang¹

¹Department of Animal Science, National Chung Hsing University,

²Graduate Institute of Basic Medical Science, China Medical University,

³Medical Research Department, China Medical University Hospital,

⁴Department of Bioinformatics and Medical Engineering, Asia University

PO-02-20 Effect of early nutrition on growth, organ development and TNF- α response to lipopolysaccharide challenge in mice

Ataru Kimura¹, Hiroyuki Suzuki², Masatoshi Matsuzaki²

¹United Graduate School of Agricultural Sciences, Iwate University,

²Faculty of Agriculture and Life Science, Hirosaki University

PO-02-21 Protein degradation by autophagy during postmortem storage of mouse skeletal muscle

Miho Yamashita¹, Satoshi Kawahara², Tetsuo Morita³, Shogo Kaminaka¹, Yoichi Sakakibara², Tomonori Nakanishi²

¹ Graduate School of Agriculture, University of Miyazaki,

² Department of Biochemistry and Applied Biosciences, Faculty of Agriculture, University of Miyazaki,

³ 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 Nishigawa¹, Mayumi Takakura¹, Satsuki Nagamachi¹, Vishwajit S Chowdhury², Shinobu Yasuo¹, Mitsuhiro Furuse¹

¹ Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,

² 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 Namekawa¹, Daisuke Murase², Takeshi Ohkubo^{1,2}

¹ Graduate School of Agriculture, Ibaraki University,

² 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 Yamashita¹, Shotaro Nishimura², Takane Kaneko², Fuminori Kawabata², Shoji Tabata²

¹ Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University,

² 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^{1,2}, Tomoyuki Abe³, Borjigin Sarantonglaga², Kazuko Ogata^{2,4}, Mio Yamaguchi^{1,2}, Akane Sato^{1,2}, Rika Fukumori^{1,2}, Yoshikazu Nagano^{1,2}

¹ Department of Animal Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan,

² University Farm, Faculty of Agriculture, Utsunomiya University, Japan,

³ Division of Regenerative Medicine, Center for Molecular Medicine, Jichi Medical University, Japan,

⁴ 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 Sato¹, Yusuke Sato², Fumiaki Yoshizawa^{1,2}

¹ Tokyo University of Agriculture and Technology, ² Utsunomiya University

PO-02-29 Time-course of changes in muscle antioxidant peptide concentrations in heat-stressed broiler chickens

Kyohei Furukawa¹, Natsumi Waki¹, Motoi Kikusato¹, Akane Ashihara², Aiko Ishida², Kazuki Nakashima², Masaaki Toyomizu¹

¹ Animal Nutrition, Life Sciences, Graduate School of Agricultural Science, Tohoku University,

² 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^{1,2}, Takuya Matsumoto¹, Toshiyoshi Ichinohe¹, Sang-Houn Song¹

¹ Faculty of Life and Environmental Science, Shimane University, Japan,

² 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 Mon¹, Toshihisa Sugino¹, Mabrouk Elsabagh^{1,2}, Akiko Shinoda³, Takashi Watanabe³,
Shiro Kushibiki⁴, Taketo Obitsu¹

¹ Graduate School of Biosphere Science, Hiroshima University, Japan,

² Department of Nutrition and Clinical Nutrition, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt,

³ Showa Denko K. K., Japan,

⁴ National Institute of Livestock and Grassland Science, Japan

PO-02-32 Myogenic differentiation of ovine stromal vascular cells

Takuya Matsumoto¹, Kei Matsuno^{1,2}, Toshiyoshi Ichinohe¹, Sang-Houn Song¹

¹ Faculty of Life and Environmental Science, Shimane University, Japan,

² 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 Hakamata¹, Motoi Kikusato¹, Kouichi Watanabe², Taku Amo³, Masaaki Toyomizu¹

¹ Animal Nutrition, Life Sciences, Graduate School of Agricultural Science, Tohoku University,

² Animal Functional Morphology, Life Sciences, Graduate School of Agricultural Science, Tohoku University,

³ 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^{1,2}, Chih-Hsiang Cheng², Jung-Hsin Lin², Jeng-Feng Huang³, Hsiu-Chou Liu²

¹ Department of Biotechnology and Animal Science, National Ilan University,

² Ilan Branch, Livestock Research Institute, Council of Agriculture, Executive Yuan,

³ 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 Imade¹, Tetsuya Kondo², Yumi Kayahara³, Khosyo Yamauchi⁴, Peter Lutes¹, Yoshiki Matsumoto¹

¹ Kagawa University, Faculty of Agriculture, ² Kondo Electric co.ltd.,

³ Kagawa Prefecture Livestock Experimental Station, ⁴ 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^{1,2}, Rujarin Limsupavanich², Ronachai Sitthigripong², Chanporn Chaosap³, Kamon Chaweewan⁴

¹ Faculty of Veterinary Medicine, Mahanakorn University of Technology,

² Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang,

³ Faculty of Industrial Education, King Mongkut's Institute of Technology Ladkrabang,

⁴ 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 Iwasa¹, Yukiko Iwamoto¹, Yu Takenaka¹, Mitsuharu Urabe¹, Yasuo Takemura¹, Shuji Sakamoto², Takuma Higuchi², Katsuji Morioka¹, Kazumasa Kakibuchi³, Yutaka Ishida³, Kazutsugu Matsukawa¹

¹ Faculty of Agriculture and Marine Science, Kochi University,

² Science Research Center, Kochi Medical School, Kochi University, ³ Shikoku Research Institute Inc.

PO-02-47 GLOVE DETECTOR CAPACITANCE-BASED TIREN CHICKEN MEAT AS CHICKEN MEAT SAFETY SOLUTION IN INDONESIA

Nasution Syahrizal¹, Pratiidina Iskandar Rhegy¹, Adam Alfath Muhammad², Farida Nok¹, Yusrina Kulsum Anita³

¹ Animal Product Technology, Animal husbandry Faculty of Universitas Padjadjaran,

² Physics Major, Mathematics and Natural Sciences Faculty of Universitas Padjadjaran,

³ 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^{1,2}, Xuan Trach Nguyen², Kim Dang Pham²

¹ University of Dalat, ² Vietnam National University of Agriculture

PO-02-49 BEEF TASTE-TRAITS ASSESSED BY AN ELECTRONIC TASTE SENSING SYSTEM

Yanan Zhao¹, Masahiro Nishida¹, Yusuke Nakada¹, Shuji Ueda¹, Masaaki Habara², Hidekazu Ikezaki², Minoru Yamanoue¹

¹ Graduate School of Agricultural Science, Kobe University, Japan, ² INSENT, Japan

PO-02-50 EVALUATION OF REDUCING ODOUR PRODUCED BY HENS EXCRETA WITH PROBIOTICS AND PROTEASE

P. Y. Lee^{1,2}

¹Taiwan Chung Hsing University of Biological Technology, ²Taiwan Formosa University of Animal Science

PO-02-51 Effect of Floor Bedding Materials on Egg Production and Behavioral Characteristics of Laying Hens

Yu Hyun Kang¹, Han Seo Ko¹, Jun Yeop Lee², Hyeon Soo Jang¹, Sang Jip Ohh¹

¹Kangwon National University, ²National Institute of Animal Sciences

PO-02-52 Effect of Photoperiod during Perinatal Period on Neurogenesis and Stress-Related Behaviors in Mice

Yusuke Takai¹, Misato Kawai¹, Tadashi Ogo², Takashi Ichinose², Shigeki Furuya², Hiroshi Udo³, Mitsuhiro Furuse¹, Shinobu Yasuo¹

¹Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,

²Division of Systems Biology, Faculty of Agriculture, Kyushu University,

³Department of Science, Kyushu University

PO-02-53 Differences in comfort of dairy cows in three different commercial tied-stall herds in Japan

Chisato Minagawa¹, Mizuki Fukushima², Wakana Takahashi¹, Chikako Yoshida³

¹Graduate School of Science and Technology, Niigata University,

²Faculty of Agriculture, Niigata University,

³Field Center for Sustainable Agriculture and Forestry, Niigata University

PO-02-54 Lower locomotor activity is partially explained by brain dopamine metabolism in mice

Takeshi Yamaguchi¹, Hiromi Ikeda¹, Kimie Minaminaka¹, Momoko Kodaira¹, Vishwajit Sur Chowdhury², Shinobu Yasuo¹, Mitsuhiro Furuse¹

¹Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University, Japan,

²Division 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 Sakakura¹, Yusuke Eguchi^{1,2}, Soichiro Doyama², Hironori Ueda², Katsuji Uetake¹, Toshio Tanaka¹

¹Azabu University School of Veterinary Medicine,

²NARO 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 Yang¹, Gie Won Kim¹, Jae Jung Ha², Yong Han Song¹

¹College of Animal Life Science, Kangwon National University, ²Gyeongsangbuk-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 Lin¹, Yen-Pai Lee¹, Chi-Feng Chen^{1,2,3}, Chao-Jung Chen^{4,5}, San-Yuan Huang^{1,2,3,6}

¹ Department of Animal Science, National Chung Hsing University,

² Agricultural Biotechnology Center, National Chung Hsing University,

³ Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University,

⁴ Proteomics Core Laboratory, Department of Medical Research, China Medical University Hospital,

⁵ Graduate Institute of Integrated Medicine, China Medical University,

⁶ 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 Sonoda¹, Kazato Oishi¹, Hajime Kumagai¹, Yoshikazu Aoki², Hiroyuki Hirooka¹

¹ Graduate School of Agriculture, Kyoto University, ² Shiga Prefectural Livestock Technology Promotion Center

PO-02-64 FOOD SAFETY FROM FARM TO TABLE IN VIETNAM

THI MINH NGUYEN¹, Thi Minh Thu Pham², Martine Boulianne³

¹ Animal Husbandry Association of Vietnam (AHAV), ² National Institute of Animal Science (NIAS), Vietnam,

³ 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^{1,2}, Sarentonglaga Borjigin², Kazuko Ogata^{2,3}, Asuka Hara^{1,2}, Akane Sato^{1,2}, Rika Fukumori^{1,2}, Nagao Yoshikazu^{1,2}

¹ Department of Animal Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan,

² University Farm, Department of Agriculture, Utsunomiya University, Japan,

³ 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 Nooragha¹, Ryuusuke Kawamura², Hideaki Murakoso³, Hidenori Ogihara³, Ruriko Kimura¹, Orya Rafiullah¹, Yuki Nakagawa¹, Yuusei Yamashita¹, Koichiro Hemmi¹, Genki Ishigaki¹, Kiichi Fukuyama¹, Ikuo Kobayashi¹

¹ Sumiyoshi Livestock Science Station, University of Miyazaki,

² Department of Mechanical Systems Engineering, University of Miyazaki, ³ 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 Odaka¹, Kazumasa Ogino², Kenichi Asada¹, Syoujirou Kasa¹, Michitaka Shikada³, Takahiro Inoue⁴, Ken Maeda⁵

¹Fukuoka Agriculture and Forestry Research Center, ²University of Occupational and Environmental Health, ³Fukuoka Prefectural Yame Agricultural High School, ⁴Fukuoka Prefectural Fukuoka Agricultural High School, ⁵Yamaguchi University

PO-02-70 Gene regulation of small yellow follicles in response to acute heat stress in L2 strain Taiwan country chickens

Chuen-Yu Cheng¹, Wei-Lin Tu¹, Chih-Feng Chen^{1,2,3}, Hsin-Hsin Chen¹, Pin-Chi Tang^{1,2,3}, Yen-Pai Lee¹, Shuen-Ei Chen^{1,2,3}, San-Yuan Huang^{1,2,3,4}

¹Department of Animal Science, National Chung Hsing University, Taiwan, ²Agricultural Biotechnology Center, National Chung Hsing University, Taiwan, ³Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University, Taiwan, ⁴Research 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 Tu¹, Chuen-Yu Cheng¹, Chao-Jung Chen^{2,3}, Hong-Lin Chan^{4,5}, Chih-Feng Chen^{1,6,7}, Hsin-Hsin Chen¹, Pin-Chi Tang^{1,6,7}, Yen-Pai Lee¹, Shuen-Ei Chen^{1,6,7}, San-Yuan Huang^{1,6,7,8}

¹Department of Animal Science, National Chung Hsing University, Taiwan, ²Proteomics Core Laboratory, Department of Medical Research, China Medical University Hospital, Taiwan, ³Graduate Institute of Integrated Medicine, China Medical University, Taiwan, ⁴Institute of Bioinformatics and Structural Biology, National Tsing Hua University, Taiwan, ⁵Department of Medical Sciences, National Tsing Hua University, Taiwan, ⁶Agricultural Biotechnology Center, National Chung Hsing University, Taiwan, ⁷Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University, Taiwan, ⁸Research 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^{1,2}, Wei-Jun Yang¹, Lih-Ren Chen¹, Yow-Ling Shiue²

¹Livestock Research Institute, Taiwan, ²Institute 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 Nishio¹, Yuichi Ushimura¹, Shiji Ueda¹, Naoyuki Maeda², Akihito Hattori³, Minoru Yamanoue¹

¹Laboratory of Chemistry and Utilization of Animal Products, Graduate School of Agricultural Science, Kobe University, Japan, ²Safety Research Institute for Chemical compounds Co., LTD, Japan, ³Japan 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 Wang¹, Chen- Yu Fang², Ming-Ju Chen¹

¹ Department of Animal Science and Technology, National Taiwan University,

² Conmed Pharmaceutical & Bio-Medical Corporation

PO-02-79 Antiviral activities of intestinal probiotics

Hsiu-Han Hsu¹, Je-Ruei Liu²

¹ National Taiwan University of Animal Science, ² 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 Cheng¹, Je-Ruei Liu^{1,2}

¹ Department of Animal Science and Technology, National Taiwan University,

² Institute of Biotechnology, National Taiwan University

PO-02-81 A Whole Genome Association Analysis for serum and milk β -hydroxybutyric acid and milk acetone in Holstein cows

Jisu Lee¹, ChangHee Do¹, Umanthi Ranaraja¹, Taejung Choi², Sidong Kim², KwangHyun Cho²

¹ Div. of Animal and Dairy Science, Chungnam National University, Korea,

² 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 Phromnoi¹, Somkiat Dontongdang²

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 Nagai¹, Gaku Tahara¹, Isao Hyodo², Sadao Kojima², Hisashi Usugi², Koh Nomura¹, Yukimizu Takahashi¹, Eiji Kobayashi^{1,3}, Tsutomu Furukawa¹

¹ Graduate School of Agriculture, Tokyo University of Agriculture,

² Ome Center for Animal Husbandry, Tokyo Development Foundation for Agriculture, Forestry, and Fisheries,

³ 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 Rattanapradit¹, Suphawadee Yaemkong¹, Norakamol Laorodphan¹, Prapasiri Jaipong¹, Rangsun Charoensook², Tossaporn Incharoen², Sonthaya Numthuum², Nawannaporn Chirarat³, Usaneeporn Soipeth³

¹ Pibulsongkram Rajabhat University, ² Naresuan University,

³ Rajamangala University of Technology Lanna Phitsanulok

- PO-03-4 Phenotypic Characterization of Native Chicken Ecotypes in Lower Northern, Thailand**
Yaemkong Suphawadee¹, Nguyen Ngoc Tuan²
¹Pibulsongkram Rajabhat University, ²Vietnam National University of Agriculture
- PO-03-5 Milk CSN2 Gene Expression Levels During All Lactation at Different Feeding Systems in Goats***
Akin Yakan¹, Huseyin Ozkan², Aysel Eraslan Sakar², Necmettin Unal³, Ceyhan Ozbeyaz³
¹Department of Animal Science, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,
²Department of Genetics, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,
³Department 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^{1,2}, Akin Yakan¹, Huseyin Ozkan², Ceyhan Ozbeyaz³, Necmettin Unal³
¹Department of Animal Science, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,
²Department of Genetics, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,
³Department of Animal Science, Faculty of Veterinary Medicine, University of Ankara, TURKEY
- PO-03-7 Goat Milk Somatic Cell PPAR γ Gene Expression Levels in Concentrate Based and Pasture based Feeding Systems**
Huseyin Ozkan^{1,2}, Akin Yakan¹, Aysel Eraslan Sakar², Necmettin Unal³, Ceyhan Ozbeyaz³
¹Department of Animal Science, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,
²Department of Genetics, Faculty of Veterinary Medicine, University of Mustafa Kemal, TURKEY,
³Department 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 Kawabe¹, Rerkammuychoke Worawut², Takao Nishida², Takeshi Shimogiri³, Satoru Taura¹, Shin Okamoto³
¹Institute of Gene Research, Natural Science Research Centre for Research and Education, Kagoshima University,
²Faculty of Veterinary Medicine, Kasetsart University, ³Faculty 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 α 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 Bureenok¹, Kraisit Vasupen¹, Chalermpon Yuangklang¹, Benya Saenmahayak¹, Kessara Ampaporn²

¹Rajamangala University of Technology Isan, ²Rajamangala 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 Chumpawadee¹, Sukanya Leetongdee²

¹Division of Animal Science, Faculty of Technology, Mahasarakham University, Thailand,

²Department 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-Aiet¹, 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. Oh¹, Y. W. Woo², C. H. Lee³, Y. Lee³, K. H. Kim^{2,3}

¹Department of Animal Nutrition and Physiology, National Institute of Animal Science, RDA, Korea,

²Graduate School of International Agricultural Technology, Seoul National University, Korea,

³Green 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 Gunun¹, Pongsatorn Gunun², Sudarat Tanpronsri¹, Phailin Pongsathet¹, Patraphol Jabal¹, Natthapong Jumphaekaw¹, Panchan Prachanan¹, Pimpaka Doovisas¹, Suksa Robroo¹, Kannika Opatwong², Aleeya Promnoy², Anusorn Cherdthong³, Metha Wanapat³

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^{1,2}, Onanong Pongchompu¹, Metha Wanapat³, Thanousinh Kandee⁴, Wanida Tongsalab¹, Waraporn Chaitamat¹

¹ Department of Animal Science, Faculty of Natural Resources, Rajamangala University of Technology-Isan, Sakon Nakhon Campus, Thailand,

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

³ Tropical Feed Resources Research and Development Center, Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

⁴ 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 Panthee¹, Ayano Matsuno², Mohammad Al-Mamun³, Hiroaki Sano^{1,2}

¹ The United Graduate School of Agricultural Science, Iwate University, ² Dept. of Animal Science, Iwate University,

³ 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 Jeon¹, Se Young Jang¹, Sung Jin Kim¹, Hye Jin Seong¹, Sang Woo Kim², Yu Ling Ding¹, Yu Jiao Tang¹, Yeong Sik YUN¹

¹ Division of Food Bio Science, Konkuk University, Korea, ² 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 Paengkoum¹, Jirawan Khotsakdee¹, Siwaporn Paengkoum²

¹ Suranaree University of Technology, ² Nakhon Ratchasima Rajabhat University

PO-03-30 Effect of glucosinolate (Sinigrin) for reducing methane emission rumen parameters and microbial community in vitro

Taeho Song¹, Ahreum Choi¹, Guiseck Bae¹, Eunjoong Kim², Changhyun Kim³, Moonbaek Chang¹

¹ Chung-Ang university, ² Kyungpook National University, ³ Hankyong National University

PO-03-31 Replacement of corn silage for sugarcane silage diets on rumen metabolism in buffalo

Raul Franzolin¹, Teresa Cristina Alves², José Raúl López Álvarez³, Thaysa dos Santos Silva¹, Orlando Fundora Sánchez¹

¹ Universidade de Sao Paulo-FZEA, Brazil, ² EMBRAPA - Pecuaria Sudeste, Brazil, ³ 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 Higuchi¹, Fumihito Ohtani¹, Itoko Nonaka¹, Takashi Osada¹, Atsushi Haruno², Yasuteru Sakamoto², Takeshi Fujieda²

¹Institute of Livestock and Grassland Science, NARO,

²AJINOMOTO 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 Obitsu¹, Keita Hosoba¹, Mabrouk El-Sabagh^{1,2}, Toshihisa Sugino¹

¹Graduate School of Biosphere Science, Hiroshima University,

²Faculty 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 Kikusato¹, Fumika Nanto¹, Takuma Ishikawa¹, Nobuhisa Ashida², Tomokazu Imabayashi², Masaaki Toyomizu¹

¹Animal Nutrition, Life Sciences, Graduate School of Agricultural Science, Tohoku University,

²ASAHI CALPIS WELLNESS Co., Ltd.

PO-03-36 Effects of different forage and growth stage on adipogenesis of ovine preadipocytes

Sang-Houn Song¹, Da-Hye Kim^{1,2}, Ki-Choon Choi³, Takuya Matsumoto¹, Kei Matsuno^{1,2}, Toshiyoshi Ichinohe¹

¹Faculty of Life and Environmental Science, Shimane University, Japan,

²The United Graduate School of Agricultural Sciences, Tottori University, Japan,

³Grassland 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 Tang¹, Yusuke Sugimoto², Yuji Tanabe², Takeshi Tsuruta¹, Naoki Nishino¹

¹Okayama University, ²Okayama 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 Shin¹, Henry Ajuna¹, Jinho Yang¹, Chaehwa Ryu¹, Bitna Choi¹, Sangbuem Cho², Nag-Jin Choi¹

¹Department of Animal Science, Chonbuk National University, ²Institute 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^{1,3}, Yoshitaka Hirose², Hiroko Nakai², Daiki Takahashi¹, Yuki Sato¹, Hironobu Hase³

¹ Akita prefectural Livestock Experiment Station,

² Research and Development Institute, House Wellness Foods Corporation,

³ Lactobacillus product ingredients business department, House Wellness Foods Corporation

PO-03-45 Production functional feed additive using Antrodia cinnamomea fermented soybean hull

Lee Tzu-Tai¹, Lin H. C.¹, Chang S. C.², Yu B.¹

¹ Department of Animal Science, National Chung Hsing University,

² 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 Lan¹, Stephanie Chen¹, Yu Ming Liao², Mei Fong Lin¹

¹ National Taiwan University, ² National Taipei University of Technology

PO-03-47 The using of fermented vegetable soybean waste and banana stem in Black-bone chicken diets

Tonglain buwjoom¹, Buaream Maneewan¹, Koh-en Yamauchi²

¹ Faculty of Animal Science and Technology, Maejo University, Thailand

² 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^{1,2}, Seok-Min. Kang³, Young-Rok Yang², Dae-Woo Kim¹

¹ Department of Animal Science, Gyeongsang National University, Korea,

² Institute of Agriculture and Life Sciences, Gyeongsang National University, Korea,

³ 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^{1,3}, H.F. Wang¹, X.D. Wang¹, X.X. Dou¹, J.L. Wang²

¹ Zhejiang Agricultural and Forestry University, ² Zhejiang Gomore Feed Co. Ltd.,

³ 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^{1,2}, F.F. Li¹, X. Zhang¹, M.L. He²

¹ Shenyang Agricultural University, ² 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 Ku¹, Cheng-Yang Chuang¹, Cheng-Wei Wang², Kuo-Lung Chen²

¹Department of Applied Chemistry, National Chiayi University, Taiwan,

²Department 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 Chu¹, Lin-Ping Huang², Kuo-Lung Chen²

¹Department of Microbiology, Immunology and Biopharmaceuticals, National Chiayi University, Taiwan,

²Department 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 Wei¹, Chen-Chun Wei¹, Min-Syh Chiou², Yi-Cheng Lee¹, Chian-Kai Chang³

¹National Taiwan University, ²Tea Research and Extension Station, ³Li Han Enterprise Corporation Limited

PO-03-58 Effects of dietary resources in high antioxidant activity on broiler chickens.

Koichi Matsushita¹, Toshiyuki Ishii², Takumi Iwama³, Yuko Hirose³

¹Yamanashi Prefecture Livestock Experimental Station, ²Yamanashi Prefecture Agritech Center,

³Yamanashi University

PO-03-59 The effects of feeding wet shochu distillers residue to fattening pigs on behavior and sensory traits of pork loin

Sachi Katsumata¹, Misako Kamakura¹, Seira Isojima¹, Ikuo Kobayashi^{1,2}, Satoshi Kawahara^{1,2},
Shinsuke Sakamoto¹, Mitsuhiro Niimi¹, Toshihiro Takahashi^{1,2}, Tomoyuki Kawashima^{1,2}

¹University of Miyazaki Faculty of Agriculture,

²University of Miyazaki Center for Animal Disease Control

PO-03-60 Distribution of β -carboline Derived from Tryptophan in Chickens

Ryosuke Makino¹, Kazumi Kita²

¹Fac. of Agric., Ehime Univ., ²Fac. 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 Ishiguro¹, Yousuke Saito¹, Satoshi Watanabe¹, Takashi Numabe¹, Masatoshi Suzuki², Yasushi Kino³, Manabu Fukumoto²

¹ Miyagi Prefecture Livestock Experiment Station, Japan,

² Department of Pathology, Institute of Development, Aging and Cancer, Japan,

³ 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 Angsirijinda¹, Ekthida Thongdet¹, Watiporn Yenchum²

¹ Mahanakorn University of Technology, ² 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 Hirao¹, Koya Sasaki², Shoei Sugita²

¹ Jichi Medical University School of Nursing, ² 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 Takahashi¹, Atsuko Saito¹, Mao Fujimura¹, Makoto Sugiyama¹, Hideki Ogasawara¹, Katsuyoshi Sato², Yohei Kurose¹

¹ Kitasato University School of Veterinary Medicine,

² 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 Takayama¹, Mako Matsunaga¹, Haruko Matsunaga¹, Naoki Nogami², Ichiro Oshima¹, Yoshitaka Nakanishi¹

¹ Faculty of Agricultural, Kagoshima University, ² Nogami Co., Ltd

PO-03-71 Myogenic stem cells isolated from soleus muscle may autonomously form slow-twitch fibers via *Sema3A* signaling.

Takahiro Suzuki¹, Yu-ki Ohya², Shin-ichiro Nishimatsu³, Kumiko Terada³, Naoki Katase³, Hideaki Ohtsubo², Wataru Mizunoya², Ken Kobayashi¹, Tsutomu Nohno³, Nishimura Takanori¹, Ryuichi Tatsumi²

¹ Research Faculty of Agriculture, Graduate School of Agriculture, Hokkaido University,

² Department of Animal & Marine Bioresource Science, Graduate School of Agriculture, Kyushu University,

³ 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 Muroya¹, Masayuki Hayashi¹, Koichi Ojima¹, Mika Oe¹, Ikuyo Nakajima¹, Masahiro Shibata²

¹NARO Institute of Livestock and Grassland Science, ²NARO Western Region Agricultural Center

PO-03-73 Molecular Detection Of Anaplasma maginale In Cows In The Eastern Border Area

Kanokrat Srikijkasemwat¹, Paitoon Kaewhom²

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

²Faculty of Agricultural Technology, Burapha Univerisity, Sakaeo Campus, Thailand

PO-03-74 Rapid discrimination of Bacillus subtilis group using MALDI-TOF MS technology

Chien-Hsun Huang¹, Ting-Jen Chuang¹, Lina Huang¹, Kuo-Lung Chen²

¹Bioresource Collection and Research Center, Food Industry Research and Development Institute,

²Department 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 Kaewhom¹, Kanokrat Srikijkasemwat²

¹Faculty of Agricultural Technology, Burapha University, Sakaeo Campus, Thailand,

²Department 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 Liu¹, Lu Chi Hsin², Cheng Mei Ping¹

¹Management Division, Livestock Research Institute, ²Forage Crops Division, Livestock Research Institute

PO-03-78 Safety evaluation and application of the aerobic ultrahigh temperature fermented compost

Chun-Xiang PIAO¹, Junyou LI², Zheng-Yu PIAO¹, Guang-Chun LI¹, Chang-Guo YAN¹

¹Department of Agricultural Resources and Environment, Agricultural College of Yanbian University, China,

²Animal 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 Ruenphet¹, Darsaniya Punyadarsaniya², Tippawan Jantafong³

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 Takeda¹, Eiji Kobayashi¹, Satoshi Akagi¹, Masahiro Kaneda², Shinya Watanabe¹
¹ Institute of Livestock and Animal Science, NARO, ² 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 Oshima¹, Yuji Goto¹, Kimiyasu Takahashi², Koichi Katayose¹, Yasushi Ono¹, Masashi Kagawa¹, Yoshinori Ochiai¹, Kazunori Tawara¹, Yoshitake Watanabe¹, Chihiro Kawakami¹, Takashi Akagi¹, Koichi Kishimoto¹, Koji Fukuma², Ichiro Otani¹, Naoyuki Yamamoto¹
¹ NARO Western Region Agricultural Research Center (Oda),
² 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^{1,2,3}, Qian Sun¹, Ryo Ezaki¹, Hiroyuki Horiuchi¹
¹ Graduate School of Biosphere Science, Hiroshima University,
² Japanese Avian Bioresource Project Research Center, Hiroshima University,
³ 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 Tatemoto¹, Ryuko Mitsube², Isao Tokeshi², Minami Uehara¹, Yuki Sadoyama¹, Mina Funabiki¹, Toshihiro Konno¹
¹ Faculty of Agriculture, University of the Ryukyus, ² 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 Mizushima¹, Tamao Ono², Tomohiro Sasanami^{3,4}
¹ Graduate School of Science and Engineering for Research, University of Toyama, Japan,
² Division of Animal Science, Faculty of Agriculture, Shinshu University, Japan,
³ Department of Applied Biological Chemistry, Faculty of Agriculture, Shizuoka University, Japan,
⁴ United Graduate School of Agricultural Science, Gifu University, Japan

PO-04-10 Enzyme-linked immunosorbent assay for bovine super-early pregnancy factor

Kazuei Matsubara¹, Kouki Kanamori¹, Yuka Motoyama¹, Kanako Koiwa¹, Kazuo Koizumi², Hiroshi Yoshida³, Kosuke Iga⁴, Manabu Shimizu⁴, Toh-ichi Hirata¹

¹ Graduate School of Agriculture, Iwate University,

² National Livestock Breeding Center, Iwate station (NLBC Iwate station) ,

³ General incorporated association Kuzumaki-machi Chikusan Kaihatsu kousha public corporation,

⁴ Tohoku Agricultural Research Center, National Agriculture and Food Research Organization (NARO)

PO-04-11 Seasonal variation of dog semen quality and freezability

Kazuko Ogata^{1,2}, Aiko Sasaki^{2,4}, Borjigin Sarentonglaga², Mio Yamaguchi^{2,3}, Asuka Hara^{2,3}, Akane Sato^{2,3}, Kenji Nishihara⁴, Naoko Sugane⁴, Rika Fukumori^{2,3}, Yoshikazu Nagao^{2,3}

¹ Collaboration Center for Research and Development of Utsunomiya University, Japan,

² University Farm, Faculty of Agriculture, Utsunomiya University, Japan,

³ Department of Animal Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan,

⁴ East Japan Guide Dog Association, Japan

PO-04-12 Effects of pretreatment with resveratrol on the quality of post-thaw cryopreserved bovine embryos

Takeshi Hayashi¹, shuji Ueda¹, Miyuki Mori¹, Harumi Ono¹, Hisataka Iwata²

¹ Fukuoka Agriculture and Forestry Research Center, ² 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 Sangkaew¹, Chaiwat Jarassaeng¹, Sarawut Sri-ngam¹, Saksiri Sirisathien¹, Seri Khang-air²

¹ Department of Surgery and Theriogenology, Faculty of Veterinary Medicine, Khon Kaen University,

² 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^{1,2}, Pachara Thananurak¹, Napapach Chuaychu-noo², Saennumphung Somtaw³,

Naline Tubtimtong⁴, Pronjit Sornseeda⁵

¹ Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

² 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 Matsukawa¹, Mana Nitta¹, Toshinori Oikawa², Shinnosuke Tamura¹, Mami Hosokawa¹, Aoi Kono¹, Satoshi Akagi³, Akihiko Ichikawa⁴, Keisuke Edashige¹

¹ Faculty of Agriculture and Marine Science, Kochi University,

² Miyagi Prefectural Livestock Experiment Station,

³ Institute of Livestock and Grassland Science, NARO,

⁴ 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^{1,2}, Nozomi Kurumisawa², Tamao Ono², Hiroshi Kagami², Takahiro Tagami¹

¹ Institute of Livestock and Grassland Science, NARO, ² 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 estriol 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 Sakatani¹, Takaaki Sugano², Aiki Higo³, Koji Naotsuka², Satoru Gessei⁴, Takuo Hojo¹, Hiroshi Uehara², Naoki Takenouchi¹

¹ Kyushu Okinawa Agricultural Research Center, NARO, ² NTT DOCOMO, ³ Kimotsuki Daichi Farm,

⁴ JA Kagoshima Kimotsuki

PO-04-26 Sperm Pretreatment with Dithiothreitol (DTBA) Increased Developmental Competence of Bovine Oocytes after ICSI

Tayita Suttirojpatana^{1,2}, Tamas Somfai², Satoko Matoba², Takashi Nagai³, Rangsun Parnpai², Masaya Geshi^{2,4}

¹ Suranaree University of Technology, School of Biotechnology, Thailand,

² Animal Breeding and Reproduction Research Division, Institute of Livestock and Grassland Science, NARO, Japan,

³ International Cooperation Section, National Agriculture and Food Research Organization (NARO), Japan,

⁴ 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^{1,2}, Asami Tanaka¹, Hikaru Suyama¹, Md. Rashedul Islam^{1,3}, Nobuhiko Yamauchi¹

¹ Department of Animal and Marine Bioresource Sciences, Faculty of Agriculture, Kyushu University, Japan,

² Animal Production Department, Faculty of Agriculture, Kafrelsheikh University, Egypt,

³ 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 Noguchi¹, Shinya Watanabe², Kazuhiro Kikuchi¹, Hiroyuki Kaneko¹

¹Institute of Agrobiological Sciences, NARO, ²Institute 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^{1,2,3}, Masaki Hata¹, Kohei Arifuku¹, Yurika Narumiya¹, Yuki Itani¹, Kazuki Ohata¹, Tetsuya Tani¹, Yoko Kato¹

¹Laboratory of Animal Reproduction, Kinki University, Japan, ²JSPS Postdoctoral Fellow for Foreign Researchers,

³Department 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 Fukagawa¹, Kenichi Kataoka¹, Yasuyuki Ishii²

¹Nagasaki Agricultural and Forestry Technical Development Center,

²Faculty of Agriculture, University of Miyazaki

PO-04-33 Utilisation of Sunnhemp (*Crotalaria juncea*) as Roughage Source in beef cattle

Pipat Lounglawan¹, Supreena Srisaikhom¹, Pitunart Noosen²

¹School of Animal Production Technology, Institute of Agricultural Technology, Suranaree University of Technology, Thailand,

²Department 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. Fukumoto¹, Yong Soo Kim¹, Perry Kealoha²

¹University of Hawaii at Manoa, College of Tropical Agriculture and Human Resources,

²Kamehameha Schools

PO-04-35 Evaluation of Palatability for Crop Species and Conserving Methods in Korean Native Cattle

Jong Geun Kim^{1,2}, Yu Wei Li¹, Meing Joong Kim², Han Jong Ko³, Hyung Soo Park⁴, Hak Jin Kim², Suk Im Jeong²

¹Graduate School of International Agricultural Technology, Seoul National University,

²Research Institute of Eco-friendly Livestock Science, INSTITUTE of GREEN BIO SCIENCE & TECHNOLOGY, Seoul National University,

³Department of Agriculture Science, College of Natural Science, Korea National Open University,

⁴Grassland 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 Wang¹, Shiau-Wei Chen², Jih-Tay Hsu²

¹Department of Animal Science, Chinese Culture University,

²Department 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 Kim¹, Kihwan Lee¹, Tabita Dameria Marbun¹, Juhui Kang¹, Jaeyong Song¹, Sangbuem Cho², Eun Joong Kim¹

¹Department of Animal Science, Kyungpook National University, Korea,

²Institute 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 Lin¹, Tzu-Rung Li¹, Shyh-Rong Chang¹, Chi-Hsin Lu¹, Churng-Faung Lee¹, Yih-Min Shy¹, Shu-Fen Yan¹, Hsi-Hsun Wu², Yu-Kuie Cheng¹

¹Livestock Research Institute, Council of Agriculture, Taiwan,

²Department 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 Oshima¹, Yuki Chikara², Akira Tominaga¹, Daiki Yanagita¹, Daisuke Ishii¹, Satoshi Matsumoto¹, Kiyomi Katahira¹, Koji Takayama¹, Yoshitaka Nakanishi¹

¹Faculty of Agriculture, Kagoshima University,

²The 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 Khota¹, Suradej Pholsen¹, Yimin Cai²

¹ Faculty of Agriculture, Khon Kaen University, Thailand,

² Institute of Livestock and Grassland Science (NILGS), NARO, Japan

PO-04-49 Silage fermentation of natural grasses in meadow steppe and typical steppe

Meiling Hou¹, Gentu Ge¹, Tingyu Liu², Yushan Jia¹, Yimin Cai³

¹ Inner Mongolia Agricultural University, ² Inner Mongolia University of Nationalities,

³ 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 Chen¹, Wenyang Li¹, Yifen Zhuang², Boqi Weng¹, Yimin Cai³

¹ Fujian Academy of Agricultural Sciences, ² Fujian Agriculture and Forest University,

³ 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 Reyes¹, Anthony Francis Regaspi¹, Emily Angeles¹, Jose Karlo Cardona¹, Medallaine Dimaiwat¹, Joel Thaddeus Aldemita¹, Veneranda Magpantay², Soleil Cabigting³, Niño Jesus Bagui³, Baby Helen Briones³, Lucilo Plata³, Brett Casebolt⁴

¹ Philchema, Inc. Philippines,

² Animal and Dairy Sciences Cluster, University of the Philippines Los Baños Philippines,

³ Soro-soro Ibaba Development Corporation, Philippines,

⁴ 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 Takakura¹, Satsuki Nagamachi¹, Takuma Nishigawa¹, Vishwajit S. Chowdhury², Shinobu Yasuo¹, Mitsuhiro Furuse¹
¹Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,
²Division 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 Nagamachi¹, Mayumi Takakura¹, Takuma Nishigawa¹, Vishwajit S. Chowdhury², Shinobu Yasuo¹, Mitsuhiro Furuse¹
¹Laboratory of Regulation in Metabolism and Behavior, Faculty of Agriculture, Kyushu University,
²Division 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 Harada¹, Takamitsu Tsukahara^{1,2}, Shoya Tai¹, Nobuo Nakanishi³, Kikuto Fukuta⁴, Ryo Inoue¹
¹Laboratory of Animal Science, Kyoto Prefectural University, ²Kyoto Institute of Nutrition & Pathology,
³KYODOKEN Institute, ⁴Technical 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 Jung¹, Emil Joseph Vergara², Wenchie Marie Lumbea², Robin Guevarra², Seung-Yeol Cho³, Seong Gu Hwang²

¹Naram Feed, ²Hankyong National University, ³Eugene Bio

PO-04-71 ACE inhibitory activity of original peptides derived from “milky miso” on hypertensive rats and people

Michio Muguruma¹, Satoshi Kawahara², Kazuhiro Kusumegi³, Tsuyoshi Hishinuma⁴, Masugi Maruyama⁵, Toyoo Nakamura⁶

¹Department of Nutrition Management, Faculty of Health and Nutrition, Minami Kyushu University,

²Department of Biochemistry and Applied Biosciences, Faculty of Agriculture, University of Miyazaki,

³Yamae Foods Inc., ⁴Japan Livestock Industry Association, ⁵Faculty of Medicine, University of Miyazaki,

⁶Marunaka 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 Lee¹, Hung-Hsi Hu², San-Land Young¹, Chu Chih-Yuan³, Liu Je-Ruei³, Lin Jin-Seng¹

¹SynbioTech Inc., Kaohsiung Taiwan, ²Department of Food Science, National Penghu University, Taiwan,

³Department 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^{1,2,3,4}, Chuen-Yu Cheng¹, Wei-Lin Tu¹, Chao-Jung Chen^{5,6}, Hong-Lin Chan^{7,8},
Chih-Feng Chen^{1,2,3}, Hsin-Hsin Chen¹, Pin-Chi Tang^{1,2,3}, Yen-Pai Lee¹, Shuen-Ei Chen^{1,2,3}

¹ Department of Animal Science, National Chung Hsing University,

² Agricultural Biotechnology Center, National Chung Hsing University,

³ Center for the Integrative and Evolutionary Galliformes Genomics, iEGG Center, National Chung Hsing University,

⁴ Center of Nanoscience and Nanotechnology, National Chung Hsing University,

⁵ Proteomics Core Laboratory, Department of Medical Research, China Medical University Hospital,

⁶ Graduate Institute of Integrated Medicine, China Medical University,

⁷ Institute of Bioinformatics and Structural Biology, National Tsing Hua University,

⁸ 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 PENERGETIC(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 Tangwatcharin¹, Natjaya Ekapakul²

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

² 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 Cao¹, Dong Chen¹, Wufeng Li¹, mi du², Meng Wu³

¹ China Agricultural University, ² Department of Animal Sciences, Washington State University, USA,

³ 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 Tavitchasri¹, Nualphan Ngamyeesoon², Komkhae Pilasombut³

¹ Department of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus, Thailand,

² Department of Plant Production Technology, Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand,

³ 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 Pilasombut¹, Nualphan Ngamyeesoon²

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

² 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 Funatsu¹, Yukie Miyauchi¹, Makoto Kawakami², Hirofumi Hayasaka³, Jeng-Huh Yang⁴, Makoto Ishioroshi¹

¹ Rakuno Gakuen University, ² Hokkaido Research Organization, ³ Taste & Aroma Strategic Research Institute,

⁴ National Chiayi University

PO-05-7 Aging effect on marination and quality characteristics of vacuum-packed duck breast meat

Cheorun Jo¹, Muhammad Khan^{1,2}, Hyun Jung Lee¹, Haelim Lee¹, Jineon Lee¹, Hyuncheol Kim¹, Ki Chang Nam³

¹ Department of Agricultural Biotechnology, Seoul National University, Korea,

² National Institute of Food Science and Technology, University of Agriculture, Pakistan,

³ 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 Kikuchi¹, Hiroshi Ishii¹, Kyu-Ho Han², Michihiro Fukushima², Toru Hayakawa², Kenichiro Shimada²

¹Obihiro Otani Junior College, ²Obihiro 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 Anzai¹, Manoj Kumar Shah², Mitsumi Nakajima¹, Takashi Sakai¹, Kazato Oishi¹, Hiroyuki Hirooka¹, Hajime Kumagai¹

¹Graduate School of Agriculture, Kyoto University, ²Nepal 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 Takenoyama¹, Kumiko Kawakita¹, Tomoko Matsumoto¹, Masato Kawagoe¹, Ayaka Nishi², Fumiaki Sugino², Tomoko Tadokoro², Shozo Kosaka², Hirohisa Takasu³, Akio Kurogi⁴, Michio Muguruma¹

¹Faculty of Health and Nutrition, Minami-kyusyu University, ²Miyazaki Prefecture,

³Hyuga City, ⁴JA Hyuga Agricultural Cooperative Association

PO-05-15 Carcass Characteristics of Hanwoo Steers by Age at Slaughter and Beef Quality Grades

Jae Kyoung Cheong^{1,2}, Tae Sung Kim¹, Young Kon Park¹, Jeong Mi Hwnag¹, Joong Kook Park¹, Jae Yoon Shim¹, Ho Nam Choi¹, Dong Soo Lee¹, Hyun Seok Yang²

¹Livestock Research Institute, National Agriculture Cooperative Federation, ²Hoengseong Chuckhyup

PO-05-16 Influence of a sweetener or a seaweed addition in Japanese deer meat to sensory research

Maho Yamanaka¹, Takuji Hirayama¹, Hideaki Hayashi², Kazuo Katoh³, Sang-Gun Roh^{3,4,5}, Takuro Oikawa⁴, Keiichi Suzuki⁵

¹School of Environmental Science, University of Shiga Prefecture,

²School of Veterinary Medicine, University of Rakuno Gakuen,

³Department of Animal Physiology, Tohoku University,

⁴Faculty of Agriculture, University of the Ryukyus,

⁵Division 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 Ishida¹, Ryo Sasaki¹, Yoshito Suda¹, Yo Morimoto², Keisuke Kawada², Hiroshi Uchida², Tatsushi Inoue¹

¹School of Food, Agricultural and Environmental Sciences, Miyagi University, ²Oshu 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 Nishino¹, Thi Ngoc Yen Phan¹, Thuy Minh Tang¹, Thi Minh Tu Tran¹, Takeshi Tsuruta¹, Gaowa Bai¹, Huu Van Nguyen², Hien Trang Nguyen²

¹Okayama University, ²Hue 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 Deguchi¹, Yumi Higashiyama², Mamoru Nashiki³, Tomohiro Kumagai¹, Ikuko Shimamoto¹, Ayako Arakawa¹

¹Iwate University, ²Tohoku Agricultural Research Center, NARO,

³Japan 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 Onoue¹, Tomoko Shimokawa², Satoko Yamashita³, Yoshitomo Kusaka³, Minoru Maeda², Hiroyuki Saito³, Kenichi Asada¹

¹Fukuoka Agriculture and Forestry Research Center, ²Kyushu Medical Co. Lt,

³Fukuoka 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 Onsongchun¹, Kalaya Boonyanuwat²

¹Dairy Research and Development sector, Bureau of Animal Husbandry and Genetic Improvement, Department of Livestock Development Ratchathevi, Thailand,

²Biodiversity 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, Chalati 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 Kanloug

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 Yoshida¹, Mizuki Fukushima², Chisato Minagawa³, Wakana Takahashi³

¹Field Center for Sustainable Agriculture and Forestry, Niigata University,

²Faculty of Agriculture, Niigata University, ³Graduate School of Science and Technology, Niigata University

PO-05-32 Flight Distance of Japanese Black Beef Cows in Iriai Grazing System

Hidetoshi Kakihara¹, Chiemi Sata², Reiko Ishiwaka³, Yasuhisa Masuda⁴, Jun Tanoue¹, Yutaka Nakano¹, Masataka Shimojo¹

¹Faculty of Agriculture, Kyushu University, ²Kumamoto Prefectural Agricultural Research Center,

³Faculty of Agriculture, University of Miyazaki, ⁴Kuju 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 Wang¹, Takumi Tokida¹, Kazuhiro Miyagawa¹, Windi al zahra², Richard Cooke³, Michael Calver⁴, Seiichi Koizumi¹, Shinichi Kobayashi¹

¹College of Bioresource Sciences, Nihon University, ²Bogor Agricultural University, ³Writtle College,

⁴Murdoch University

PO-05-35 Evaluation of the efficacy of image processing to detect mounting estrus in cattle

Ikuo Kobayashi¹, Koichi Shimada², Tin Pyke², Hideki Kai², Yuki Nakagawa¹, Koichiro Hemmi¹, Genki Ishigaki¹, Kiichi Fukuyama¹, Zin Thi Thi¹

¹Sumiyoshi Livestock Science Station, University of Miyazaki,

²Department 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 Kim¹, Sheena Kim¹, Jeong Jae Lee¹, Yoontack Jang¹, Kibeom Jang¹, Byeonghyeon Kim¹, Sangwoo Park¹, Younghwa Kim², Juncheol Park², Younghoon Kim³, Minho Song¹

¹Department of Animal Science and Biotechnology, Chungnam National University, Korea,

²National Institute of Animal Science, Rural Development Administration, Korea,

³Department of Animal Science, Chonbuk National University, Korea

PO-05-38 Residual impact of stress factors that newborn calves suffer just after birth

Katsuji Uetake¹, Shinji Hashimura², Nobutada Sakagami², Toshio Tanaka¹

¹Azabu University School of Veterinary Medicine,

²Kanagawa Prefectural Livestock Industry Technology Center

PO-05-39 Tail based pulse rate meter

Kazuhuro Umemura¹, Yutaka Terada²

¹Hokkaido Agricultural Research Center, ²National Institute of Animal Health

PO-05-40 Motion analysis of dairy cow sleep posture

Shigeru Ninomiya¹, Go Horii¹, Yasunari Yokota²

¹Gifu University, Faculty of Applied Biological Science, ²Gifu University, Faculty of Engineering

PO-05-41 Effect of playing installation on productive performances of Hanwoo steers

Gie Won Kim¹, Ka Young Yang¹, Jae Jung Ha², Yong Han Song¹

¹College of Animal Life Science, Kangwon National University, ²Gyeongsangbuk-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 Jantafong¹, Darsaniya Punyadarsaniya¹, Katsushige Takahashi², Kazuaki Takehara³, Sakchai Ruenphet¹

¹Immunology and Virology Department, Faculty of Veterinary Medicine, Mahanakorn University of Technology, Thailand,

²R&D Department, Kyoritsu Seiyaku Corporation, Japan,

³Animal 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 Park¹, Kwang-Hyun Cho²

¹Chonbuk National University, ²National 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 Kim¹, Junsu Kim¹, Jeong Jae Lee¹, Yoontack Jang¹, Kibeom Jang¹, Byeonghyeon Kim¹, Sangwoo Park¹, Younghwa Kim², Juncheol Park², Younghoon Kim³, Minho Song¹

¹Department of Animal Science and Biotechnology, Chungnam National University, Korea,

²National Institute of Animal Science, Rural Development Administration, Korea,

³Department 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 Terada¹, Akifumi Ikehata¹, Xuan Luo¹, Kunio Sashida², Shanji Piao², Tsutomu Okura²

¹National Agriculture and Food Research Organization, ²Soma Optics, Ltd.

PO-05-48 Biocontrol of Animal Pathogens by Lactic Acid Bacteria

Khakhanang Ratananikom¹, Nunthiya Suwanpanya², Yupaporn Khannalao¹, Tanitpan Pongjongmit², Sarayut Srirrot¹

¹Department of Science and Mathematics, Faculty of Agro-Industrial Technology, Kalasin University,

²Department 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^{1,2}, Yoshitaka Deguchi³, Toshihiko Takahashi⁴, Shizu Koshikawa⁵, Takahiro Ito⁵, Toshitaka Fujiwara⁵, Hiroyoshi Chiba⁶, Keiji Okada⁶

¹Bycen Inc., ²Konan University FRONT, ³Iwate University Department of Animal Science,

⁴Iwate Agricultural Research Center Animal Industry Research Institute,

⁵Rakuno Gakuen University Department of Sustainable Agriculture,

⁶Department 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 Elly¹, Artise HS Salendu¹, Charles L Kaunang¹, Indriana Indriana², Syarifuddin Syarifuddin³, Zulkam Pohuntu⁴, Syarifudin Pontoh⁴

¹University of Sam Ratulangi, Faculty of Animal Husbandry, ²University of Ichsan, Indonesia,

³BP3K, Indonesia, ⁴PEMDA, 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 Yamazaki¹, Koichi Hagiya², Hisato Takeda³, Shigeki Yamaguchi⁴, Takefumi Osawa⁵, Yoshitaka Nagamine⁶

¹Hokkaido Agricultural Research Center, NARO, ²Obihiro University of Agriculture and Veterinary Medicine,

³Institute of Livestock and Grassland Science, NARO, ⁴Livestock Improvement Association of Japan,

⁵National Livestock Breeding Center, ⁶Nihon 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^{1,2}, I Wahyuni¹, FH Elly¹, Syarifuddin Syarifuddin², SJK Umboh¹

¹Faculty of Animal Husbandry University of Sam Ratulangi, ²BP3K, Indonesia

PO-05-58 Free-Grazing spent layer duck value chains in Vietnam: Implication for Avian Influenza control

Tung Dinh Xuan¹, Tuan Han Anh¹, Duc Do Van¹, Thu Nhu Van¹, Meyer Anne², Vergne Timothée²

¹National Institute of Animal Sciences, Vietnam,

²Royal 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 Sitthigripong¹, Rutcharin Limsupavanich¹, Sawankamol Noidad¹, Rachakrits Lertpatarakomol¹, Kamon Chaweewan³, Chanporn Chaosap²

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

²Department of Agricultural Education, Faculty of Industrial Education, King Mongkut's Institute of Technology Ladkrabang, Thailand,

³Department 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^{1,3}, Nozomi Sakamoto¹, Masakazu Komatsuzaki^{1,3}, Hikari Shimonish³, Yuriko Yamakawa^{2,3}, Daisuke Kohari^{1,3}, Tsuyoshi Okayama^{1,3}, Seiichi Sasaki^{2,3}, Atsushi Toyoda^{1,3}

¹Ibaraki University, School of Agriculture,

²Ibaraki Prefectural University of Health Sciences, Center for Medical Sciences,

³Ibaraki University Cooperation between Agriculture and Medical Science

PO-05-62 Marketability of eating crow meat and receptivity to its taste

Naoki Tsukahara¹, Misaki Hayama², Ryo Ohtsuka², Mamiko Shichida¹, Takeyuki Ozawa²

¹SOKENDAI, ²Nippon 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 NILCHUEN¹, Surachai Piamkhla², Sasitorn Nakthong³

¹Tubkwang Research Station, Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand,

²KU Kamphaeng Saen Campus Beef Producer Cooperative Ltd., Kasetsart University, Kamphaeng Saen Campus, Thailand,

³Department 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 systemHideki Ogasawara¹, Yumiko Suzuki¹, Tatsuyuki Takahashi¹, Yutaka Ono¹, Kazuyo Okayama², Masayuki Hojito¹¹ Kitasato University School of Veterinary Medicine, ² 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 COWSBagus Priyo Purwanto¹, M Guselanes², Rosianne², Natalia Nopika², Andi Murfi¹¹ Vocational School - Bogor Agricultural University (IPB),² 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 Jarassaeng¹, Suneerat Aiumlamai¹, Chalong Wachirapakorn², Jos Noordhuizen³¹ Department of Surgery and Theriogenology, Faculty of Veterinary Medicine, Khon Kaen University, Thailand,² Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,³ 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 Hsieh¹, Min-Ruei Syu¹, Chia-Hao Hsu¹, Chuan-Ching Lan², Chun-Chih Huang²¹ Department of Animal Science and Biotechnology, Tunghai University, Taiwan,² New Bellus Enterprises CO., LTD., Taiwan**PO-05-76 Association of fat protein ratio and non-genetic factors on Milk β - Hydroxybutyric Acid and Acetone Levels in Holstein Cattle**Umanthi Ranaraja¹, Jisu Lee¹, HyunSeong Kim¹, DongUk Kim¹, ChangHee Do¹, KwangHyun Cho², TaeJung Choi², SiDong Kim², Mina Park²¹ Div. of Animal and Dairy Science, Chungnam National University,² 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-Tzu¹, Huang Chien-Hsun², Chen Kuo-Lung¹, Wu Chean-Ping¹¹ Department of Animal Science, National Chiayi University, Taiwan,² 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 Suzuki¹, Tomonori Nakanishi², Yoh-ichi Matsushita³, Satoshi Kawahara^{2,4}¹ Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki,² Faculty of Agriculture, University of Miyazaki, ³ Faculty of Engineering, University of Miyazaki,⁴ 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 ANOTHASINTHAWEE¹, SURASAK SOPONCHIT²

¹ Bureau of Animal Husbandry and Genetic Improvement, DLD,

² 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 Kawasaki¹, Akihiro Hori¹, Kiminobu Yano²

¹ Laboratory of Animal Nutrition, Bioresource Production Science, Faculty of Agriculture, Kagawa University, Japan,

² 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 Lu¹, Yu-Tsung Lin¹, Ling-Ling Lo³, Pei-Hwa Wang²

¹ Department of Bio-Industrial Mechantronics Engineering, National Taiwan University,

² Department of Animal Science, National Taiwan University,

³ Department of Animal Science, Chinese Culture University

PO-06-3 Estimation of Genetic Parameters of Grey Brahman Cattle in Thailand Environment

Aunchalee Juahom¹, Yaowaluck Leepaijit², Sansak Nakavisut³

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 Ikejiri¹, Takuji Hirayama², Takuro Oikawa¹

¹ Faculty of Agriculture, University of the Ryukyus, ² 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 Yamaguchi¹, Yutaka Masuda², Yuusaku Gotoh³, Toshimi Baba³, Satoshi Nakagawa¹, Hayato Abe¹, Takayoshi Kawahara³

¹ Hokkaido dairy milk recording and testing association, ² University of Georgia,

³ 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 Roh¹, Chang Yeup Kim¹, Sung Soo Lee¹, Byoung Ho Park², Te Jeong Choi², Lee Jung Gyu³

¹Hanwoo Improvement Center, NACF, ²National Institute of Animal Science, RDA,

³GyeongSang 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 Jung¹, Chang Yeup Kim¹, Seung Hee Roh¹, Jin Ho Kim¹, Sung Soo Lee¹, Byoung Ho Park², Boh Suk Yang², Youg Min Cho², Jun Heon Lee³

¹Hanwoo Improvement Center, National Agricultural Cooperative Federation,

²National Institute of Animal Science, RDA,

³Division of Animal and Dairy Science, Chungnam National University

PO-06-13 Association of WUR SNP with Production Traits in Duroc pigs

Kang Seok Seo¹, Bryan Irvine Lopez¹, Choi Kyu Park², Vanessa Viterbo¹, Milton Tinashe Makumbe¹

¹Sunchon National University, ²Kyungpook 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 Kim¹, Bryan Irvine Lopez², Vanessa Viterbo², Tae Hun Kim², Kang Seok Seo², Hee-bal Kim³

¹Pig Gene Korea, ²Sunchon National University, ³Seoul 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 Baba¹, Yusaku Gotoh¹, Satoshi Yamaguchi², Hayato Abe², Satoshi Nakagawa², Yutaka Masuda³, Takayoshi Kawahara¹

¹Holstein Cattle Association of Japan, Hokkaido Branch, ²Hokkaido Dairy Milk Recording and Testing Association,

³University of Georgia

PO-06-17 Estimation of Genetic 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- β 3 and PIT1 Gene in Thai Native Chicken

Sajee Kunhareang^{1,2}, Thongsa Buasook², Monchai Duangjinda^{1,2}, Bayat Laopaiboon², Yupin Phasuk^{1,2}

¹Department of animal science, Faculty of Agriculture, Khon Kaen University, Thailand,

²Research 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^{1,2}, Chien-Ru Wu¹, Tsung-Che Tu¹

¹Department of Animal Science, National Chung Hsing University, Taiwan,

²Center 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^{1,2}, Monchai Duangjinda^{1,2}, Banyat Laopaiboon^{1,2}, Pitcharat Sanchaisuriya^{1,2}

¹Department of Animal Science, Faculty of Agriculture, Khon Kaen University, Thailand,

²Research 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 Satoh¹, Kazuo Ishii²

¹Graduate School of Agricultural Science, Tohoku University,

²Institute 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 Nishiura¹, Osamu Sasaki¹, Mitsuo Aihara², Hisato Takeda¹

¹Institute of Livestock and Grassland Science, NARO, ²Livestock 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 Sasaki¹, Akiko Nishiura¹, Mitsuo Aihara², Hisato Takeda¹

¹Institute of Livestock and Grassland Science, NARO, ²Livestock Improvement Association of Japan, Inc.

PO-06-30 Incorporating imprinting effect in whole-genome prediction in mice

Motohide Nishio¹, Masahiro Satoh², Osamu Sasaki¹

¹Institute of Livestock and Grassland Science, NARO, ²Graduate 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 Kanloug¹, Piyada Tavitchasri¹, Jongruk Kongyim¹, Ranchuan Hengtrakunsin²

¹ King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus,

² 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 Saenmahayak¹, Sukanya Saithi², Chalermpon Yuangklang¹, Smerjai Bureenok¹, Kraisit Vasupen¹

¹ Faculty of Sciences and Liberal Arts, Rajamangala University of Technology Isan, Nakhon Ratchasima,

² 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 Vergara¹, Wenchie Marie Lumbea¹, Seung-Hak Yang², Seong-Gu Hwang¹

¹ Department of Animal Life and Environmental Science, Hankyong National University, Korea,

² 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 Chinrasri¹, Lalita Borisuth¹, Piyanete Chantiratikul², Anut Chantiratikul¹

¹ Faculty of Technology, Mahasarakham University, ² Faculty of Sciences, Mahasarakham University

PO-06-38 Lipoteichoic acid and muramyl dipeptide do not affect food and water intake in chicks

Tetsuya Tachibana¹, Sayaka Yamane¹, Takako Sakurai¹, Ryosuke Makino¹, Md Sakirul I Khan²,

Mark A Cline³

¹ Ehime University, Faculty of Agriculture, ² Ehime University, Graduate School of Medicine,

³ Virginia Polytechnic Institute and State University

PO-06-39 Effects of nanosize zinc oxide and γ -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^{1,6}, Teck Chwen Loh^{1,2}, Hooi Ling Foo^{3,4}, Henny Akit¹, Awis Qurni Sazili^{1,5}

¹ Department of Animal Science, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia,

² Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia,

³ Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Science, Universiti Putra Malaysia, Malaysia,

⁴ Institute of Bioscience, Universiti Putra Malaysia, Malaysia,

⁵ Halal Products Research Institute, Universiti Putra Malaysia, Malaysia,

⁶ 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 Chang¹, Po-Yun Teng¹, Shen-Chang Chang², Bi Yu¹, Tzu-Tai Lee¹

¹ Department of Animal Science, National Chung Hsing University, Taiwan,

² 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 Jang¹, Lin Hu Fang¹, Young Gi Hong², Jin Su Hong¹, Yoo Yong Kim¹

¹ School of Agricultural Biotechnology, Seoul National University,

² 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 R¹, Ryo Taguchi², Jiro Yokoyama³, Kazumi Kita^{1,2}

¹ The United Graduate School of Agricultural Sciences, Iwate University, ² Faculty of Agriculture, Iwate University,

³ 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 ALIMON¹, NABILA MOHAMADDIN², ANJAS ASMARA SAMSUDIN²

¹ Universitas Gadjahmada, Faculty of Animal Husbandry,

² 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 Fukumori¹, Ayaka Takeuchi¹, Rina Yanai¹, Borjigin Sarentonglaga¹, Kazuko Ogata³, Mio Yamaguchi², Asuka Hara², Akane Sato², Yoji Masuda², Yoshihisa Hasegawa⁴, Masayasu Kojima⁵, Kenji Kangawa⁶, Toshihisa Sugino⁷, Yoshikazu Nagao^{1,2}

¹ University Farm, Department of Agriculture, Utsunomiya University,

² Department of Animal Production Science United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology,

³ Collaboration Center for Research and Development, Utsunomiya University,

⁴ School of Veterinary Medicine and Animal Science, Kitasato University,

⁵ Institute of Life Science, Kurume University,

⁶ National Cardiovascular Center Research Institute,

⁷ Graduate School of Biosphere Science, Hiroshima University

PO-06-66 Changes of the hepatic expression of α -tocopherol-related genes in relation to the hypovitaminosis E around calving in dairy cows

Satoshi Haga¹, Miwa Nakano¹, Makoto Miyaji¹, Hiroshi Ishizaki¹, Sang-gun Roh²

¹National Agriculture and Food Research Organization (NARO),

²Tohoku University Graduate School of Agriculture

PO-06-68 The relationship between mammary gland development and imprinted genes

Shinichi Yonekura^{1,2,3}, Masaki Ohata², Hitomi Tokita², Megumi Tsuchiya², Yukako Tokutake³

¹Institute for Biomedical Sciences, Shinshu University, ²Graduate School of Agriculture, Shinshu University,

³Interdisciplinary 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 Katawatin¹, Surangkana Suklerd¹, Monchai Duangjinda¹, Sittirak Roytrakul²

¹Department of Animal Science, Faculty of Agriculture, Khon Kaen University, THAILAND,

²National 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 Manabe¹, Yutaka Sendai², Aoyagi Yoshihito², Ahsan AKM Kabir³, Kannika Wongpanit³,
Ichiro Onoyama³, Junyou Li³

¹Osaka International University, ²National Federation of Agricultural Cooperative Associations,

³The 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 Boonkaewwan¹, Jatuporn Noosud², Autchara Kayan¹, Pannapat Guntapa¹

¹Department of Animal Science, Faculty of Agriculture, Kasetsart University, Thailand,

²Department 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 Noosud¹, Chaiwat Boonkaewwan², Autchara Kayan², Anutian Suklek²

¹Department of Companion Animal Clinical Science, Faculty of Veterinary Medicine, Kasetsart University, Thailand,

²Department 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 Theerawatanasirikul¹, Nunyarat Koomkrong², Autchara Kayan², Chaiwat Boonkaewwan²

¹Department of Anatomy, Faculty of Veterinary Medicine, Kasetsart University,

²Department 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 Watanabe¹, Kei Nishimura², Kana Aichi¹, Kohzy Hiramatsu^{1,2}

¹Faculty of Agriculture, Shinshu University,

²Interdisciplinary Graduate School of Science and Technology, Shinshu University