

The 2021 Fall Meeting of Japan Poultry Science Association

September 16, 2021

Online

〔 Presentation 7min.
Discussion 3min. 〕

Morning Session

9:00~10:30 Best Presentation Award 1

(Genetics, Breeding, Physiology, Anatomy and Histology, Processing and Products)

- I - 1 Genetic Mapping of the Novel Congenital Loco Locus in Silky Fowl Chickens
○Koki Shiina¹ and Eiji Kobayashi²
(¹Tokyo Met. Agri. and Forestry Res. Center, ²NARO.)
- I - 2 Candidate gene analysis for an open-field behavior QTL in chickens
○Takayuki Ochiai¹, Marina Sakaguchi¹, Shin-ichi Kawakami² and Akira Ishikawa¹
(¹Nagoya Univ., ²Hiroshima Univ.)
- I - 3 Involvement of Calcium-Sensing Receptor in Amino Acids Sensing in Chicken Oral Cavity
○Yu Nishimura, Rikako Nakata and Fuminori Kawabata
(Hirosaki Univ.)
- I - 4 Effects of nutritional status on gene expressions of hepatic Sirt1 and metabolism-related factors in broiler chicks
○Yoshimitsu Ouchi¹ and Takashi Bungo¹ (¹Hiroshima Univ.)
- I - 5 Elucidation of immune function of avian gut-associated lymphoid tissues via histological studies
○Ryota Hirakawa¹, Motoshi Hisamatsu¹, Mutsumi Furukawa¹, Kan Sato² and Tomonori Nochi¹
(¹Tohoku Univ. Lab. of Functional Morphology, ² Tohoku Univ. Lab. of Animal Nutrition)
- I - 6 Effects of intra-vaginal administration of *Lactobacillus johnsonii* on the oviductal mucosal barrier function of the laying hens.
○Taro Shinkoda, Naoki Isobe, Yukinori Yoshimura and Takahiro Nii
(Grad. Sch. of Integrated Sci. for Life, Hiroshima Univ.)

- I – 7 Injection of anti-PLA2R antibody to laying quails reduces IgY uptake into egg yolks
 ○Mayuko Okamoto, Misato Kobayashi, Fumihiko Horio, Atsushi Murai
 (Grad. School of Bioagricultural Sci., Nagoya Univ.)

- I – 8 Preparation of Anti-Rabies Virus Nucleocapsid Protein IgY; Comparison of DNA
 Immunization with Protein Immunization
 ○Nanase Kubo¹, Chiemi Ueba², Satoshi Inoue³, Akira Noguchi³ and Hajime Hatta¹
 (¹Kyoto Women's Univ., ² Kyoto Pref. Livestock Exp. Stn. ³National Institute of
 Infectious Diseases)

10:40~12:00 Best Presentation Award 2

(Physiology, Nutrition and Feeds, Environment and Hygiene)

- I – 9 Overproduction of nitric oxide affects feeding behavior and crop emptying rate in chicks
 ○Maki Takahashi¹, Ryosuke Makino¹, Mohammad Sakirul Islam Khan² and Tetsuya
 Tachibana¹
 (¹Fac. of Agric., Ehime Univ., ²Sch. of Med., Ehime Univ.)

- I –10 Central interaction between L-ornithine and neuropeptide Y in the regulation of feeding
 behavior in neonatal chicks
 ○Phuong V. Tran, Mohamed Z. Elhussiny, Yuriko Tsuru, Ying Wang, Vishwajit S.
 Chowdhury and Mitsuhiro Furuse (Kyushu Univ.)

- I –11 Central taurine attenuates corticotropin-releasing factor-induced hyperthermia and stress
 behaviors in neonatal chicks
 ○Mohamed Z. Elhussiny^{1,2}, Phuong V. Tran¹, Yuriko Tsuru¹, Mitsuhiro Furuse¹ and
 Vishwajit S. Chowdhury¹ (¹Kyushu Univ., ²Aswan Univ., Egypt)

- I –12 Central NPY attenuates heat stress response and activates an antioxidative function
 of the spleen in the chick
 ○Haruka Nishimura, Ying Wang, Mohamed Z. Elhussiny, Phuong V. Tran, Mitsuhiro
 Furuse and Vishwajit S. Chowdhury (Kyushu Univ.)

- I –13 Influence of amino acid-Amadori products on protein synthesis of skin-derived chicken
 embryonic fibroblasts
 ○Miyu Sugita, Kazumi Kita (Iwate Univ.)

- I -14 Effects of feeding manufacturing processed residues of mixed fermented loquat leaf tea on development and meat quality of Tushima-Jidori crossbred chickens
 ○Shogo Matsunaga¹, Kiriko Nakamura², Daichi Sonoda², Akira Ohtsuka², Daichi Ijiri² and Satoru Fukagawa¹
 (¹ Nagasaki Agri. For. Tech. Develop. Ctr., ²Kagoshima Univ.)

- I -15 Effect on rearing system of battery cage and free barn in egg components of Nagoya breed
 ○Nonoka Kawamura ¹, Takaya Masahiro ^{1,2}, Tatsuhiko Goto ¹
 (¹Obihiro Univ, ²Tokachi Foundation)

12:10~13:10 Online Seminar

13:30~14:10 Board of Trustees

14:20~15:10 General meeting

Afternoon Session

15:20~17:30 (Genetics, Breeding, Physiology, Nutrition and Feeds, Processing and Products)

- I -16 Development of a new tameness test and the evaluation of its effectiveness in chicks
 ○ Akira Ishikawa¹, Tomoka Takanuma¹, Tatsuhiko Goto², Norikazu Hashimoto³and Masaoki Tduzuki⁴
 (¹Nagoya Univ., ²Obihiro Univ., ³Poultry lab. Wakayama Pref., ⁴Hiroshima Univ., ⁵JAB)

- I -17 Effects of incubation behavior on egg production in laying hens of a commercial chicken breed and detection of single-nucleotide polymorphisms associated with the incubation behavior
 Yuichiro Yonetani¹, Atsushi J. Nagano^{2,3} and ○Tomoko Amano¹
 (¹Rakuno Gakuen Univ., ²Ryuukoku Univ., ³ Institute for Advanced Biosciences, Keio Univ.)

- I -18 Global transcriptome analysis of chick ESCs and iPSCs with enhanced transcriptional activity Oct3/4
 ○Masafumi Katayama¹, Tomokazu Fukuda² Nobuyoshi Nakajima¹ and Manabu Onuma¹
 (¹National Institute for Environmental Studies., ²Iwate Univ.,)

- I -19 Comparison of gene expression levels of Wnt signaling pathway-related genes in the intestinal tract of meat-type and egg-type chickens.
○Ken Ito¹, Momoka Mori¹, Katsuyoshi Sato¹, Jun Watanabe¹, Masaki Yokoo¹, Hiroya Nakamura².
(¹Akita Pref. Univ., ²Iwate Med. Univ.)
- I -20 Free amino acid contents of yolk and albumen in Hinai-dori and Rhode Island Red chickens
○Tatsuhiko Goto¹, Masahiro Takaya^{1,2}, Shiori Fukuda³, Ryoko Ono¹
(¹Obihiro Univ., ²Tokachi Foundation, ³Akita Pref. Livest Exp. Stn.)
- I -21 Effect of nitric oxide donor on behavioral and physiological parameters in chicks
○ Tetsuya Tachibana¹ Daiki Yamada¹, Maki Takahashi¹, Ryosuke Makino¹ and Mohammad Sakirul Islam Khan²
(¹Fac. of Agric., Ehime Univ., ²Sch. of Med., Ehime Univ.)
- I -22 Effect of feeding dashi pomace added with vinegar lees on the productivity and meat quality in meat-type Nagoya chickens
○Akihiro Nakamura¹, Hideshi Ohguchi², Hiromitsu Miyakawa¹ and Masami Sato¹
(¹Aichi Agric. Res. Ctr., ²Aichi College of Agriculture)
- I -23 Time course metabolite changing of hen eggs during the feed changing; from the corn to the rice
○Masataka Wakayama¹, Tatsuki Ogura^{1,2}, Yujin Ashino^{1,2}, Kiyohiko Hanzawa³, Miyu Sato¹, Rie Kadowaki¹, Tomoyoshi Soga¹ and Masaru Tomita¹
(¹Keio Univ., ²Shonai Ind. Prom. Center, ³Hanzawa Keiran Inc.)
- I -24 Intestinal absorption of polyphenols derived from *Citrus Kawachiensis* in chickens
○Ryosuke Makino, Masahiro Ito and Tetsuya Tachibana
(Ehime Univ.)
- I -25 Nutritional, Physicochemical and Functional Properties of Quail Egg Comparison with White Leghorn Hen Egg
○Naokazu Minoguchi¹, Ai Egusa², Masaya Sato³, Saori Tamada¹, Masami Sato¹
(¹Aichi Agric. Res. Ctr., ²Nippon Vet. Life Sci. Univ., ³bon Toraya Inc.)
- I -26 Food Culture of Japanese quail in Japan, Quail Egg Dish in School Lunch, before COVID-19 era.
○Akiko Sano (Inst. Anim. Sci.)