

**PS1 Animal Production Division**

August 23 (Tue) 13:00 – 14:40

Chair. Young Min Choi (Kyoungpook National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	PS1-1	AAAP-2022-SUB-0660	Adeola Layi	Additivity of dietary nutrient values for swine and poultry
2	PS1-2	AAAP-2022-SUB-0555	Ahn Dong Uk	Finding the New Use of the Egg – Opportunities and Challenges

**PS2 Animal Biotechnology Division**

August 23 (Tue) 13:00 – 14:40

Chair. Sang Hong Lee (University of New England, Australia)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	PS2-1	AAAP-2022-SUB-0269	Lourenco Daniela	Experiences with genomic selection across species
2	PS2-2	AAAP-2022-SUB-0637	Reverter Antonio	Low genomic prediction accuracy? Multi-omics to the rescue!

**PS3 Animal Production Division**

August 23 (Tue) 15:00 – 16:40

Chair. Jung Min Heo (Chungnam National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	PS3-1	email submission	Stuart Denman	Optimising ruminant systems through targeted supplementation to the grazing animal and microbiome
2	PS3-2	AAAP-2022-SUB-0492	Pluske John	Piglet enterotoxigenic Escherichia coli: Antimicrobial resistance and control strategies for post-weaning diarrhoea

**PS4 Animal Biotechnology Division**

August 23 (Tue) 15:00 – 16:40

Chair. Dae Kyung Kang (Dankook University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	PS4-1	email submission	Olli Peltoniemi	Coping with large litters: health and welfare challenges
2	PS4-2	AAAP-2022-SUB-0252	Wood Thomas	Ribosome Dimerization Mechanism for Persister Cell Formation and Resuscitation

**PS5 Animal Production Division**  
 August 24 (Wed) 08:30 – 10:10  
 Chair. Jae Hwan Lee (CTCBio Inc, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	PS5-1	AAAP-2022-SUB-0642	Baik Myunggi	Nutrigenomics of beef quality and intramuscular fat deposition
2	PS5-2	email submission	Sung Woo Kim	Intestinal health, mucosal microbiota, and the growth of nursery pigs

**PS6 Animal Biotechnology Division**  
 August 24 (Wed) 08:30 – 10:10  
 Chair. Youngsok Choi (Konkuk University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	PS6-1	AAAP-2022-SUB-0301	Johnson Gregory	Metabolic pathways utilized by the porcine conceptus, uterus and placenta
2	PS6-2	AAAP-2022-SUB-0680	Pang Myung-Geol	Improving animal productivity by sperm OMICS

**IS1 Ruminant nutrition**  
 August 24 (Wed) 14:40 – 16:10  
 Chair. Joonpyo Oh (Cargill, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS1-1	AAAP-2022-SUB-0552	Roh Sanggun	Evaluation of physiological parameters related with carcass traits in Japanese Black
2	IS1-2	AAAP-2022-SUB-0602	Lee Chanhee	Feeding amino acids to lactating dairy cows

**IS2 Swine nutrition**  
 August 24 (Wed) 14:40 – 16:10  
 Chair. John Pluske (Australasian Pork Research Institute Ltd.)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS2-1	AAAP-2022-SUB-0854	Sulabo Rommel	Applied piglet nutrition and its impacts on lifetime pig performance
2	IS2-2	AAAP-2022-SUB-0205	Song Minho	Nutritional application for improvement of pig growth and health

<b>IS3 Animal products</b>				
August 24 (Wed) 14:40 – 16:10				
Chair. Sun Jin Hur (Chung-Ang University, Korea)				
No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS3-1	email submission	Brad Y. H. Kim	Improving fresh meat quality and value through smart-aging strategies
2	IS3-2	AAAP-2022-SUB-0258	Liong Min	Dairy-Isolate Probiotic: A Natural Agent for the Aging Brain & Gut
<b>IS4 Animal management</b>				
August 24 (Wed) 14:40 – 16:10				
Chair. Kyu-Hyun Park (Kangwon National University, Korea)				
No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS4-1	email submission	Eilhann Kwon	Strategic approach to enhance carbon conservation in biofuels derived from lignocellulosic biomass and livestock
2	IS4-2	AAAP-2022-SUB-0295	Kim Hyeon Tae	Application of Artificial Intelligence for Smart (precision) Livestock Farming in Korea
<b>IS5 Animal reproduction</b>				
August 24 (Wed) 14:40 – 16:10				
Chair. Minjung Yoon (Kyoungpook National University, Korea)				
No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS5-1	AAAP-2022-SUB-0300	Seo Heewon	New hypotheses for placentation in pigs, sheep and cattle
2	IS5-2	AAAP-2022-SUB-0591	Uenoyama Yoshihisa	KNDy neurons: the gonadotropin-releasing hormone (GnRH) pulse generator in mammals
<b>IS6 Animal biotechnology</b>				
August 24 (Wed) 14:40 – 16:10				
Chair. Joon-Hee Lee (Gyeongsang National University, Korea)				
No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS6-1	AAAP-2022-SUB-0886	Lee Chang-Kyu	Pluripotency 3.0: Current Status of Pluripotent Stem Cell Research in Domestic Animals
2	IS6-2	AAAP-2022-SUB-0249	Do Jeong Tae	Mitochondrial dynamics, energy metabolism, and mitochondrial fission genes in stem cells

**OP1 Non-ruminant nutrition-1**

August 24 (Wed) 10:30 – 12:00

Chair. Jin Seong Park (Jeilfeed, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP1-1	AAAP-2022-SUB-0567	Trypsin inhibitor in fermented soybean meal products is negatively related to the proportion of the low molecular weight peptide
2	OP1-2	AAAP-2022-SUB-0621	Postbiotic effects of amino acids with <i>Corynebacterium glutamicum</i> cell mass replacing conventional crystalline amino acids on intestinal health and growth of nursery pigs
3	OP1-3	AAAP-2022-SUB-0885	Effect of Enzyme Cocktails and Whole Grain Wheat in Diets Fed to Broilers on Growth Performance, Carcass Characteristics and Nutrient Utilization
4	OP1-4	AAAP-2022-SUB-0339	Efficacy of <i>Achyranthes japonica</i> extract as phytogetic feed additive in broiler diet
5	OP1-5	AAAP-2022-SUB-0452	Effect of phytogetic feed additives <i>Phyllanthus niruri</i> Linn leaves powder and <i>Melaleuca cajuput</i> leaves powder on growth performance, carcass weight, and internal organ weight of broiler chickens
6	OP1-6	AAAP-2022-SUB-0008	Live and heat-killed cells of probiotic <i>Lactobacillus ingluviei</i> C37 promote growth performance, lysozyme activity, caecal microbial population and short chain fatty acid production of broiler chickens

**OP2 Ruminant nutrition-1**

August 24 (Wed) 10:30 – 12:00

Chair. Ja Kyeom Seo (Pusan National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP2-1	AAAP-2022-SUB-0830	Screening potential next-generation probiotics for promoting dairy cow's health
2	OP2-2	AAAP-2022-SUB-0826	Effects of fermented sweet potato by-products added to lactating cow diets on lactation and blood traits
3	OP2-3	AAAP-2022-SUB-0728	Effects of dietary supplementation of CALMORIN® on growth performance, blood characteristics, and noxious gas emission in Hanwoo Steers
4	OP2-4	AAAP-2022-SUB-0718	A meta-analysis of betaine effects on growth performance, milk production and carcass traits of ruminants
5	OP2-5	AAAP-2022-SUB-0605	Changes in Milk Production and Components of Milk in Holstein-Friesian x Sahiwal at Different Stage of Lactation
6	OP2-6	AAAP-2022-SUB-0670	Performance, Rumen Fermentation and Microbial Population of Bali Calves Fed with Soybean Oil Calcium Soap

**OP3 Animal product-1**

August 24 (Wed) 10:30 – 12:00

Chair. Sooyeon Song (Jeonbuk National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP3-1	AAAP-2022-SUB-0503	Development of Prediction Model for Porcine Carcass Traits based on Non-destructive Inspection Method using Estimated Phenotypes
2	OP3-2	AAAP-2022-SUB-0479	Chemical and Sensory Properties of Cream Cheese Using Microbial Coagulant and Recombinant Chymosin
3	OP3-3	AAAP-2022-SUB-0459	Multi-omics based functional analysis of bovine colostrum-derived extracellular vesicles in DSS-induced colitis mice
4	OP3-4	AAAP-2022-SUB-0447	Development of Nutribun Using Carabao milk
5	OP3-5	AAAP-2022-SUB-0034	Generation of peptides fractions through enzymatic hydrolysis of meat byproducts for therapeutic applications
6	OP3-6	AAAP-2022-SUB-0373	Comparison of serum biochemical parameters, apoptotic factors, meat quality, and palatability among meat quality classes of broiler pectoralis major muscle

**OP4 Animal reproduction & physiology-1**

August 24 (Wed) 10:30 – 12:00

Chair. Woo-Sung Kwon (Kyoungpook National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP4-1	AAAP-2022-SUB-0769	Effects of BPA, BPS, and BPF on Stemness Preservation of Murine Spermatogonial Stem Cells
2	OP4-2	AAAP-2022-SUB-0622	The prevalence of metritis and pathological ovaries in beef cattle in the Mekong Delta of Vietnam
3	OP4-3	AAAP-2022-SUB-0449	Serum metabolomic profile of early lactating Holstein dairy cows during heat stress
4	OP4-4	AAAP-2022-SUB-0415	High temperature affects porcine oocyte meiotic maturation via interruption of organelle dynamics
5	OP4-5	AAAP-2022-SUB-0391	Comparison of Pregnancy Outcome Following Various Timed Artificial Insemination Schemes In Post-Partum Dairy Buffaloes (Bubalus Bubalis)
6	OP4-6	AAAP-2022-SUB-0120	Impairment of Fertilization Capacity Exposed to Pesticide Metabolites on Boar Spermatozoa

**OP5 Animal microbiology-1**

August 24 (Wed) 10:30 – 12:00

Chair. Hyeun Bum Kim (Dankook University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP5-1	AAAP-2022-SUB-0790	Longitudinal study of the intestinal microbiome of growing laying hens
2	OP5-2	AAAP-2022-SUB-0569	Optimizing the cryoprotectant mixture to enhance the viability of <i>Lactocaseibacillus rhamnosus</i> ATCC 7469
3	OP5-3	AAAP-2022-SUB-0564	Efficacy of collected probiotic <i>Lactobacillus plantarum</i> after long-term preservation on growth performance and hemagglutination inhibition titer in broilers
4	OP5-4	AAAP-2022-SUB-0539	The metabolites of <i>Lactobacillus curvatus</i> BYB3 and indole activate the aryl hydrocarbon receptor and attenuate LPS-induced intestinal barrier function
5	OP5-5	AAAP-2022-SUB-0468	Neuroprotective impact of <i>Bacillus</i> spp. in <i>Caenorhabditis elegans</i> and intestinal dysbiosis mice model via gut-brain networks
6	OP5-6	AAAP-2022-SUB-0048	Interrogating the bovine vaginal microbiome using an efficient pipeline for microbiome sequencing

**OP6 Animal breeding and genetics-1**

August 24 (Wed) 10:30 – 12:00

Chair. Jun-Mo Kim (Chung-Ang University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP6-1	AAAP-2022-SUB-0863	Identification of epigenetic regulatory mechanism in porcine abdominal adipose tissue during growth period through transcriptome and DNA methylome integration analysis
2	OP6-2	AAAP-2022-SUB-0798	Phylogenetic Characterization of the Non-Descriptive Indigenous Cattle Population in the Northern Province of Sri Lanka using Mitochondrial D-loop Region
3	OP6-3	AAAP-2022-SUB-0704	Imputed Whole-Genome Sequence-Based Association Study and Biological Pathway Analysis for Identification of Positional Candidate Genes Affecting Basophil Trait in Yorkshire Pigs
4	OP6-4	AAAP-2022-SUB-0685	Low Genetic Diversity of Malaysian Indigenous Goat Breed and Strategies Towards Conservation: A Scoping Review
5	OP6-5	AAAP-2022-SUB-0508	Preliminary estimates of genetic parameters and correlations between ultrasonographic scan measurements of eye muscle area and growth traits in Philippine Riverine buffaloes
6	OP6-6	AAAP-2022-SUB-0486	Integrated time-serial transcriptome networks based on lncRNA and mRNA interaction in multiple tissues reveal lncRNA-mediated viral host responses to PRRSV infection

**OP7 Non-ruminant nutrition-2**

August 24 (Wed) 16:30 – 18:00

Chair. Jaecheol Jang (Gyeongsang National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP7-1	AAAP-2022-SUB-0882	Development of Prediction Equations for Apparent Metabolizable Energy and Digestible Amino Acid Concentration in Soybean Meal Fed to Broilers
2	OP7-2	AAAP-2022-SUB-0439	Effect of dietary guanidinoacetic acid supplementation on the growth performance, carcass characteristics, intestinal morphology, and digestibility in broiler chickens fed plant-based diets with varying levels of metabolizable energy
3	OP7-3	AAAP-2022-SUB-0299	Effects of supplemental multi-emulsifiers on broiler growth performance and nutrient digestibility
4	OP7-4	AAAP-2022-SUB-0024	Effect of various triticale inclusion levels on broiler growth parameters: A meta-analysis
5	OP7-5	AAAP-2022-SUB-0483	Functional and nutritional values of lysed <i>Corynebacterium glutamicum</i> from amino acid production: postbiotic effects on intestinal health of nursery pigs
6	OP7-6	AAAP-2022-SUB-0659	Nutrient utilization of soybean meal products by pigs based on in vitro assays

**OP8 Ruminant nutrition-2**

August 24 (Wed) 16:30 – 18:00

Chair. Ki Yong Chung (Korea National University of Agriculture and Fisheries, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP8-1	AAAP-2022-SUB-0687	Characterization of heat stress and recovery using indicators of blood and milk metabolomics in early lactating Holstein cows
2	OP8-2	AAAP-2022-SUB-0600	Reproductive Performance and Lamb Survival of Ewe Fed Flushing Diet Contain EPA DHA From Lemuru Oil
3	OP8-3	AAAP-2022-SUB-0613	The effect of <i>Spirulina Platensis</i> supplementation on the carcass characteristics, meat quality and fatty acid profile of Omani goats
4	OP8-4	AAAP-2022-SUB-0584	Novel endolysin PanLys.1 exhibited antibacterial activity against <i>Peptostreptococcus anaerobius</i>
5	OP8-5	AAAP-2022-SUB-0577	Sustainable Rice Straw Management Practices and Technologies for Ruminant Fodder in the Philippines
6	OP8-6	AAAP-2022-SUB-0193	Low moisture feed licks affect in vitro ruminal foam formation but not gas production

**OP9 Animal health-1**

August 24 (Wed) 16:30 – 18:00

Chair. Myunghoo Kim (Pusan National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP9-1	AAAP-2022-SUB-0828	Effects of sauerkraut crystalline salt to replace salt in animal feed on growth performance and blood properties of animals
2	OP9-2	AAAP-2022-SUB-0703	An insight regarding the subtleties of early diagnostic markers for detection of production diseases during transition period in buffaloes
3	OP9-3	AAAP-2022-SUB-0690	Heat Detection of Gilts Using Digital Infrared Thermal Imaging Camera
4	OP9-4	AAAP-2022-SUB-0385	Antimicrobial Susceptibility of Salmonella enterica and Molecular Mechanism of Reduced Susceptibility to the Quinolone in the Philippines
5	OP9-5	AAAP-2022-SUB-0615	Profiling intestinal transcriptome and fecal microbiome response to oral administration with Lactococcus lactis IL1403 cell extracts containing mouse RANKL
6	OP9-6	AAAP-2022-SUB-0402	Detection of infectious agents causing calf diarrhea on dairy farms in Korea

**OP10 Animal reproduction & physiology-2**

August 24 (Wed) 16:30 – 18:00

Chair. Heewon Seo (Texas A&M University, USA)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP10-1	AAAP-2022-SUB-0353	Differential Gene Expression in Ovarian Follicle and Uterine Endometrium in Related to Fertility of Repeat-Breeder Dairy Cows
2	OP10-2	AAAP-2022-SUB-0343	E2F4 regulates cell cycle in porcine embryonic development
3	OP10-3	AAAP-2022-SUB-0319	Expression and Regulation of Complements and Complement Control Proteins at the Maternal-Conceptus Interface in Pigs
4	OP10-4	AAAP-2022-SUB-0318	Comparison of various cooling methods and their influence on performance and cortisol accumulation in heat-stressed sows
5	OP10-5	AAAP-2022-SUB-0502	Overview of lncRNA & mRNA Annotation Throughout Swine Estrous Cycle in Reproductive Tissues



**OP11 Animal biotechnology-1**

August 24 (Wed) 16:30 – 18:00

Chair. Ki-Duk Song (Jeonbuk National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP11-1	AAAP-2022-SUB-0729	Effects of vitamin A and vitamin D on myoblast fusion and myogenic differentiation in the stromal vascular cell derived from Korean native cattle
2	OP11-2	AAAP-2022-SUB-0724	Effect of SoRegen Technology® water on the immune and inflammatory response of Chicken PBMC
3	OP11-3	AAAP-2022-SUB-0643	Formation of Chicken Muscle Fiber on Decellularized Celery Scaffold for Cultured Meat Production.
4	OP11-4	AAAP-2022-SUB-0638	Engineering chicken MDA5 to induce stronger immunity against influenza A virus by borrowing C terminal domain (CTD) of RIG-I
5	OP11-5	AAAP-2022-SUB-0646	Effects of yeast hydrolysate on the differentiation of Hanwoo Beef cattle Stromal Vascular cells
6	OP11-6	AAAP-2022-SUB-0620	Signaling pathway of melanoma differentiation-associated protein 5 (MDA5) for the immune response against RNA ligands in chicken DF1 cell

**OP12 Animal breeding and genetics-2**

August 24 (Wed) 16:30 – 18:00

Chair. Chan-Kyu Park (Konkuk University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP12-1	AAAP-2022-SUB-0485	A study on GWAS analysis of teat number traits in pigs
2	OP12-2	AAAP-2022-SUB-0445	Genome-wide association study on free amino acid and nucleotide components of breast meat in F2 crossbred chicken population
3	OP12-3	AAAP-2022-SUB-0389	Identification of Transcriptome Profiling and Biological Changes of Endocrine System Treatment in Mouse by Bisphenol-A
4	OP12-4	AAAP-2022-SUB-0286	A case-control genome-wide association study of eumelanin pigmentation in chicken plumage
5	OP12-5	AAAP-2022-SUB-0283	Identification of Complement Factor H Related 5 Gene and Its Association with Meat Quality, Carcass Characteristics, and Retail Meat Cut in Sheep
6	OP12-6	AAAP-2022-SUB-0209	In-silico homology-based modelling of an MHC class I molecule in Korean Native Chicken

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP1 Non-ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP1-2	AAAP-2022-SUB-0049	Effect of banana leaf meal ( <i>Musa sapientum</i> L.) on productive performance and egg quality of laying Japanese quails
2	PP1-4	AAAP-2022-SUB-0072	Stimbiotic supplementation alleviates decrease of performance and inflammatory response in weaned piglets induced by challenge with <i>E. coli</i>
3	PP1-6	AAAP-2022-SUB-0130	Effects of <i>Enteromorpha prolifera</i> polysaccharides on oxidative status and inflammatory response of spleen in broiler chickens under heat stress
4	PP1-8	AAAP-2022-SUB-0165	Effect of dietary glycine supplementation on productive performance, egg quality, immune response, and stress indicator of laying hens raised under heat stress conditions
5	PP1-10	AAAP-2022-SUB-0179	Evaluation of tryptophan biomass as an alternative to conventional crystalline tryptophan in broiler diets
6	PP1-12	AAAP-2022-SUB-0190	Supplementation of fiber on growth performance of growing pigs subjected to heat stress
7	PP1-14	AAAP-2022-SUB-0202	Effects of dietary yeast cell wall on growth performance, carcass yields, and intestinal morphology of broiler chickens
8	PP1-16	AAAP-2022-SUB-0204	Effects of dietary yeast cell wall on immune responses, ileal gene expression, and ileal microbiota of broiler chickens
9	PP1-18	AAAP-2022-SUB-0210	Effect of heat stress according to THI levels on growth performance and immune response in finishing pigs.
10	PP1-20	AAAP-2022-SUB-0230	Effect of red yeast ( <i>Sporidiobolus pararoseus</i> ) as an antibiotic growth promoter alternative in broiler chickens
11	PP1-22	AAAP-2022-SUB-0274	Evaluating the efficacy of xylanase supplementation in wheat-added diets
12	PP1-24	AAAP-2022-SUB-0281	Evaluation between high versus low dose zinc oxide in the diet with or without probiotic supplementation on weaning pigs' growth performance, nutrient digestibility, fecal microbiota, noxious gas emissions, and fecal score
13	PP1-26	AAAP-2022-SUB-0285	Taurine-conjugated bile acids increase by high cholesterol and low choline diet feeding in chicken
14	PP1-28	AAAP-2022-SUB-0305	Effects of dietary supplementation of synbiotics on growth performance of nursery pigs
15	PP1-30	AAAP-2022-SUB-0310	Effects of dietary level of immunoSEB plus a probiotic on performance and gut microflora of broiler chickens
16	PP1-32	AAAP-2022-SUB-0314	Improvement of weanling pigs immune status and metabolic condition using ultra-weak light

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP1 Non-ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
17	PP1-34	AAAP-2022-SUB-0316	Elimination of bordetella by different types of bacteriophage usage in challenged pigs
18	PP1-36	AAAP-2022-SUB-0321	Studies on the utilization of leaf protein concentrate from mulberry ( <i>Morus alba</i> ) as a protein source in diets on growth performance of Rhode Thai chicken
19	PP1-38	AAAP-2022-SUB-0341	Fecal inocula from different age of pigs changed in vitro fermentability of dry matter and production of short chain fatty acids
20	PP1-40	AAAP-2022-SUB-0364	Effect of DHA supplementation on broilers' growth performance, meat quality, and blood profile
21	PP1-42	AAAP-2022-SUB-0382	Evaluation of dietary feed additives for laying hens
22	PP1-44	AAAP-2022-SUB-0398	Effect of lupin ( <i>Lupinus angustifolius</i> ) as a soybean meal replacement on the performance, meat quality, and blood parameters of broilers
23	PP1-46	AAAP-2022-SUB-0409	Observation of behavioral characteristics and thermal changes of laying hens eggs
24	PP1-48	AAAP-2022-SUB-0454	Effects of dietary xylanase in a high non-starch polysaccharides diet on growth performance, nutrient digestibility, blood profiles, and immune responses of weaned pigs
25	PP1-50	AAAP-2022-SUB-0480	Effects of protease on growth performance, nutrient digestibility, gas emission, and intestinal morphology in weaned pigs
26	PP1-52	AAAP-2022-SUB-0517	Effects of feeding Burdock on meat quality and antioxidative activity in loin of pigs
27	PP1-54	AAAP-2022-SUB-0568	Effects of selenium source and level on the physiological response, reproductive performance, Serum Se level and milk composition in gestating sows
28	PP1-56	AAAP-2022-SUB-0580	Effects of Supplementation of Non-toxic sulfur on Growth performance, Immune response, Fecal microflora, Sulfur amino acids composition and pork quality in Growing-Finishing Pigs
29	PP1-58	AAAP-2022-SUB-0607	Effects of dietary supplementation of barley sprout on anti-obesity in dogs
30	PP1-60	AAAP-2022-SUB-0623	A preliminary study into nutritional composition, extraction methods and antioxidant activities of polysaccharides from algae as prebiotic for livestock
31	PP1-62	AAAP-2022-SUB-0628	Effects of selenium sources and levels on the physiological responses, blood profiles, milk composition and tissue concentration of lactating sows

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP1 Non-ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
32	PP1-64	AAAP-2022-SUB-0631	Microwave-dried black soldier fly larvae meal as an alternative protein ingredient to soybean meal in laying hen diets
33	PP1-66	AAAP-2022-SUB-0635	Regression study to investigate the relationship between heat stress and carcass characteristics in pigs
34	PP1-68	AAAP-2022-SUB-0658	Effects of Dietary Supplementation of Expanded Polystyrene on Growth Traits, Blood Properties, and Production Performance in Laying Hens
35	PP1-70	AAAP-2022-SUB-0666	A prediction equation for energy digestibility in feeds using a multi-sample simultaneous digestion method for pigs
36	PP1-72	AAAP-2022-SUB-0691	Estimation of dry matter and crude protein residues originating from exogenous digestive enzymes based on the amounts of pepsin and pancreatin used in 2-step in vitro assays
37	PP1-74	AAAP-2022-SUB-0715	A prediction equation for estimating energy digestibility of swine feeds using in vitro total tract disappearance of dry matter
38	PP1-76	AAAP-2022-SUB-0723	Effects of different copper sources and levels on copper digestibility, fecal mineral excretion and mineral status in growing pigs
39	PP1-78	AAAP-2022-SUB-0736	Optimum supplemental chromium concentrations for alleviating the detrimental effects of heat stress on weight gain in broiler chicken
40	PP1-80	AAAP-2022-SUB-0746	Evaluation of enteric methane production from growing and finishing pigs
41	PP1-82	AAAP-2022-SUB-0787	Effect of a single or combination of dietary glycine and betaine supplementation on growth performance and breast meat quality in broiler chickens raised under heat stress conditions
42	PP1-84	AAAP-2022-SUB-0821	Effect of Dietary Level of Corngluten Meal on Growth Performance, Meat Quality in Broiler
43	PP1-86	AAAP-2022-SUB-0835	Supplementing amino acids in low protein diets for broiler chickens
44	PP1-88	AAAP-2022-SUB-0858	Supplementation effects of feed additive containing multi-probiotic strains and Schisandra chinensis combined with eggshell in broilers
45	PP1-90	AAAP-2022-SUB-0867	Effects of feeding strategies on physiological parameters and reproductive performance of early gestating sows
46	PP1-92	AAAP-2022-SUB-0870	Effects of different feeding strategies on behavior of late gestating sows
47	PP1-94	AAAP-2022-SUB-0872	Effects of Ganoderma lucidum on immune response of broilers
48	PP1-96	AAAP-2022-SUB-0879	Energy Concentration, Nutrient and Dietary Fiber Digestibilities of Banana Meal in Broiler Chickens
49	PP1-98	AAAP-2022-SUB-0884	Effect of Exogenous Protease Supplementation on Nitrogen Balance, Growth Performance, and Carcass Characteristics of Broiler Chickens

Poster presentation (PP)

August 24 (Wed) 13:00 – 14:20

PP2 Ruminant nutrition

No.	Abs ID	Submission Nick No.	Title (en)
1	PP2-2	AAAP-2022-SUB-0052	Evaluation of rumen microbiome of early fattening Hanwoo steers with different feed efficiencies
2	PP2-4	AAAP-2022-SUB-0056	Effects of heat stress level on performance and physiological parameters in Hanwoo steers during the early-fattening period
3	PP2-6	AAAP-2022-SUB-0063	Assessment of fecal microbiome of late fattening Hanwoo steers with different feed efficiencies
4	PP2-8	AAAP-2022-SUB-0097	Effect of Technological Feed Processing Methods on Feed Milk Value of Oat Grain in Comparison with Barley Grain in Lactating Dairy Cows
5	PP2-10	AAAP-2022-SUB-0171	Analysis of changes in composition of elk velvet antler through lysine feeding
6	PP2-12	AAAP-2022-SUB-0197	Diversity of ruminal bacteria in Korean native ruminants
7	PP2-14	AAAP-2022-SUB-0199	The effects of propionic acid on the fermentive characteristics and mycotoxin reductions in silage of rice straw contaminated mycotoxins
8	PP2-16	AAAP-2022-SUB-0311	Effect of Feed Conversion Ratio During Each Gestation period on Blood Metabolites, Calf Weight, and Body Size Traits in Hanwoo Cows
9	PP2-18	AAAP-2022-SUB-0345	Effect of expanded flaxseed supplementation on growth performance, blood metabolites and carcass characteristics of the late-fattening Hanwoo steers
10	PP2-20	AAAP-2022-SUB-0347	Effect of Energy and Protein Contents in Commercial Calf Starters on Rumen Fermentation and Growth Performance in Hanwoo Calves
11	PP2-22	AAAP-2022-SUB-0349	Effect of micronutrient (L-tryptophan) imprinting on growth performance, fecal consistency, and blood parameter of Hanwoo calves
12	PP2-24	AAAP-2022-SUB-0355	Estimation of different feed sources on in vitro fermentation characteristics and greenhouse gases in the rumen
13	PP2-26	AAAP-2022-SUB-0397	Influence of high concentration organic mineral on oxidative status and heat shock proteins in Holstein calves during short-term heat stress and recovery period
14	PP2-28	AAAP-2022-SUB-0405	Milk performance and quality are negatively associated with heat stress in Korea dairy system
15	PP2-30	AAAP-2022-SUB-0412	The use of rumen bolus sensors to detect physiological changes in stressed growing
16	PP2-32	AAAP-2022-SUB-0424	Correlations between ambient temperature and body weight of Hanwoo calves
17	PP2-34	AAAP-2022-SUB-0428	Effect of the microalgae Parachlorella sp. supplementation on in vitro rumen fermentation and methane production

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP2 Ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
18	PP2-36	AAAP-2022-SUB-0493	Effects of forage-to-concentrate ratio on growth performance, rumen parameters, and methane production in Hanwoo growing heifers
19	PP2-38	AAAP-2022-SUB-0495	Application of the hand-held laser methane detector for measuring enteric methane emissions from cattle in an intensive farming
20	PP2-40	AAAP-2022-SUB-0512	Milk Replacer Containing Black Soldier Fly (BSF) for Different Kinds of Goat Kid: Meat and Dairy Type
21	PP2-42	AAAP-2022-SUB-0550	The impact of the microalgae <i>Chlorella vulgaris</i> supplementation on in vitro rumen fermentation and methane production
22	PP2-44	AAAP-2022-SUB-0554	Effects of different levels of dietary nutrients on rumen and fecal microbiomes in Hanwoo calves
23	PP2-46	AAAP-2022-SUB-0590	In vitro evaluation of phlorotannin derivatives effects and its relationship with hydroxyl group on mitigation of rumen methane emission
24	PP2-48	AAAP-2022-SUB-0625	Research on the delicacy of the intramuscular fat of Hanwoo steer and development of feeding technology
25	PP2-50	AAAP-2022-SUB-0653	Effects of feeding level and methods of milk replacer on growth performance of Hanwoo calves
26	PP2-52	AAAP-2022-SUB-0661	Development of a Model for Predicting Daily Intake of Partial Mixed Ration in Lactating Dairy Cows using Sensor Data and Support Vector Regression Algorithm
27	PP2-54	AAAP-2022-SUB-0669	Effects of newly developed rumen buffers on in vitro fermentation characteristics
28	PP2-56	AAAP-2022-SUB-0682	Genome Analysis of the anaerobic fungus <i>Neocallimastix frontalis</i> JS31 isolated from the rumen of Hanwoo, Korean Native Cattle
29	PP2-58	AAAP-2022-SUB-0699	Effect of either fibrolytic enzyme or protease supplementation to tall fescue forage and concentrate pellet on in sacco ruminal fermentation and in vitro nutrient degradation
30	PP2-60	AAAP-2022-SUB-0720	The effect of growth performance and carcass characteristics of Hanwoo steer based on growth genetic estimated breeding value(GEBV)
31	PP2-62	AAAP-2022-SUB-0734	Effect of dietary vitamin A supplementation on blood metabolites during early pregnancy in Hanwoo cow
32	PP2-64	AAAP-2022-SUB-0755	Effect of silicate on methane mitigation and rumen fermentation in Boer goats
33	PP2-66	AAAP-2022-SUB-0793	A Typological Characterization on the Structure of Korean Native Beef Cattle Based on Farm Survey Data

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP2 Ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
34	PP2-68	AAAP-2022-SUB-0807	Screening feed additives in alleviating methane from the rumen using in vitro rumen simulation
35	PP2-70	AAAP-2022-SUB-0840	Effect of rumen undegradable protein ratio and feed intake level on productivity in Hanwoo steers for shortening feeding period
36	PP2-72	AAAP-2022-SUB-0873	Effects of dietary supplementation with organic acid on the performance of weaning Nubian goats under different environmental temperatures
37	PP2-74	AAAP-2022-SUB-0889	Effects of Mineral Block Intake on Korea Cattle
38	PP2-76	AAAP-2022-SUB-0891	Untargeted metabolic profiling of rumen fluid and urine in lactating dairy cows affected by heat stress

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP3 Animal product**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP3-2	AAAP-2022-SUB-0021	Meat quality traits of Muscovy ducks reared under two different management systems
2	PP3-4	AAAP-2022-SUB-0075	The protein digestibility of beef in an infant in vitro digestion model: The effect of pre-freezing temperatures and aging periods
3	PP3-6	AAAP-2022-SUB-0094	Evaluation of meat quality traits of ten primal cuts from two breeds of Korean black female goats
4	PP3-8	AAAP-2022-SUB-0099	The quality properties of pork gel manufactured with hot-boned pork without phosphate
5	PP3-10	AAAP-2022-SUB-0108	Change of bioactive compounds and metabolite profile in wet-aged Jeju black cattle
6	PP3-12	AAAP-2022-SUB-0110	Effect of selenium supplement on pork quality during dry aging with different sources and levels
7	PP3-14	AAAP-2022-SUB-0115	Effect of Penicillium candidum and Penicillium nalgiovense and their combination on the physicochemical and sensory quality of dry-aged beef
8	PP3-16	AAAP-2022-SUB-0140	Identification of the Causative Agent of the Peculiar Odor of Black Goats Based on Gender
9	PP3-18	AAAP-2022-SUB-0152	Changes of metabolites and microbial composition of chicken breast meat during storage
10	PP3-20	AAAP-2022-SUB-0158	Measurement of Meat Aging and Quality Changes using Dry-aging bag
11	PP3-22	AAAP-2022-SUB-0161	Effect of aging methods and time on microbiological safety and physicochemical properties of beef
12	PP3-24	AAAP-2022-SUB-0167	Physicochemical characteristics and metabolites change in Korean Tiger cattle rump during the wet-aging
13	PP3-26	AAAP-2022-SUB-0207	The antifungal effect of essential oil on three fungi from fermented sausages
14	PP3-28	AAAP-2022-SUB-0221	A Study of Growth Performance of Myosatellite Cells Isolated from Chick and Adult Chicken Breast Muscles In Vitro Culture for Development Cultured Meat
15	PP3-30	AAAP-2022-SUB-0239	Quality and Storage Characteristics of Pork Emulsions with Root Crops Containing Saponins
16	PP3-32	AAAP-2022-SUB-0243	Comparison of lean meat and fat percentages of primal cuts from LYD pigs classified seasons measured by AutoFom III
17	PP3-34	AAAP-2022-SUB-0267	Evaluation of muscle quality of pork belly and pork butt using magnetic resonance imaging and computed tomography
18	PP3-36	AAAP-2022-SUB-0307	Productive performance, carcass and meat qualities of crossbred chickens between Thai native purebred sires and commercial broiler dams



**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP3 Animal product**

No.	Abs ID	Submission Nick No.	Title (en)
19	PP3-38	AAAP-2022-SUB-0329	A Survey Study on the Consumption and Perception of Black Goat Meat in Korea
20	PP3-40	AAAP-2022-SUB-0365	Microbial hazard analysis for HACCP implementation of drone pupae production farm
21	PP3-42	AAAP-2022-SUB-0396	Effect of compositional precursors on the formation of Heterocyclic Amines (HCAs) of pan-roasted patties in relation to different meat types and temperatures
22	PP3-44	AAAP-2022-SUB-0464	Multi-omics based evaluation of probiotic <i>Lactocaseibacillus rhamnosus</i> IDCC 3201 in <i>Caenorhabditis elegans</i> surrogate animal model
23	PP3-46	AAAP-2022-SUB-0537	Characteristics of gouda cheeses added with red ginseng powder
24	PP3-48	AAAP-2022-SUB-0571	Antioxidant Activity, Physicochemical, and Sensory Properties of Chicken Meatball Added by Butterfly Pea Flower Extract ( <i>Clitoria ternatea</i> L.)
25	PP3-50	AAAP-2022-SUB-0731	Evaluation of N-nitrosamine using solid-phase extraction and gas chromatography-mass spectrometry
26	PP3-52	AAAP-2022-SUB-0754	Omega-3 Egg Production as Functional Food
27	PP3-54	AAAP-2022-SUB-0762	Utilization of dried bean sprouts in feed on the productivity of laying hens and the physical quality of omega-3 eggs produced
28	PP3-56	AAAP-2022-SUB-0766	Omega-3 egg industry in Indonesia
29	PP3-58	AAAP-2022-SUB-0781	Quality characteristics and processing characteristics of freeze-thawed sow
30	PP3-60	AAAP-2022-SUB-0804	Identification and comparison of aroma compounds from leg meat of broiler and 3 breeds of Korean native chickens
31	PP3-62	AAAP-2022-SUB-0848	The effect of paprika extract on the antioxidant activity of pork patties and the reduction of Heterocyclic amines, and the relationship between oxidation and Heterocyclic amines
32	PP3-64	AAAP-2022-SUB-0888	Sustainable beef : Exploration for sustainable beef production, distribution and consumption

Poster presentation (PP)

August 24 (Wed) 13:00 – 14:20

PP4 Forage Science and Feed Technology

No.	Abs ID	Submission Nick No.	Title (en)
1	PP4-2	AAAP-2022-SUB-0028	The impact of climate event scenarios affecting the production of whole crop maize in Korea
2	PP4-4	AAAP-2022-SUB-0030	The difference in production of whole crop maize between normal and extreme climate scenarios in Korea
3	PP4-6	AAAP-2022-SUB-0111	Comparison of seed and straw productivity according to Italian ryegrass ( <i>Lolium multiflorum</i> Lam.) varieties in southern Korea
4	PP4-8	AAAP-2022-SUB-0117	Effect of silo filling time on quality and fermentation characteristics of Italian ryegrass( <i>Lolium multiflorum</i> Lam.) silage
5	PP4-10	AAAP-2022-SUB-0128	Effect of cutting length on quality and fermentation characteristics of Italian ryegrass ( <i>Lolium multiflorum</i> Lam.) silage
6	PP4-12	AAAP-2022-SUB-0136	Effects of Temperature Variability and Mixture Ratio on Forage Yield and Quality of Mix Cropping of Italian Ryegrass and Rye in Korea
7	PP4-14	AAAP-2022-SUB-0242	Nutritional Composition Analysis of Selected Fermented Feedstuffs
8	PP4-16	AAAP-2022-SUB-0293	Evaluation of Growth Characteristics and Dry Matter Yield of Summer Emergency Forage Crops
9	PP4-18	AAAP-2022-SUB-0356	Effects of cultivars on chemical composition, in vitro digestibility, and rumen fermentation characteristic of sprouted grains
10	PP4-20	AAAP-2022-SUB-0360	Potential of different <i>Lactococcus lactis</i> from whole crop rice as silage additives for improving fermentation quality of soybean
11	PP4-22	AAAP-2022-SUB-0406	The market survey of ingredients in pet food
12	PP4-24	AAAP-2022-SUB-0534	Development of Calculation method of GHGs removal according to management methods from LULUCF-Grassland Sector in South Korea
13	PP4-26	AAAP-2022-SUB-0603	Changes in fermentation characteristics and microflora of corn silage according to <i>Lactobacillus plantarum</i> inoculation and storage period
14	PP4-28	AAAP-2022-SUB-0618	Calculation of WCM Damage through RCP4.5 and Machine Learning Model in abnormal climate and its Mapping
15	PP4-30	AAAP-2022-SUB-0673	Detection of Italian ryegrass lodging using UAV's Spectral Sensor
16	PP4-32	AAAP-2022-SUB-0675	Vegetation Survey on Winter Forage Crop using Green Leaf Index
17	PP4-34	AAAP-2022-SUB-0722	Grasslandgraphy as discipline for grassland science
18	PP4-36	AAAP-2022-SUB-0743	Monitoring of 3 mycotoxins in domestically manufactured and distributed feed and imported feed by LC-MS/MS
19	PP4-38	AAAP-2022-SUB-0824	Effect of elevated temperature due to climate change on overwintering characteristics of Italian ryegrass ( <i>Lolium multiflorum</i> Lam.)
20	PP4-40	AAAP-2022-SUB-0875	Effect of cultivar, plant spacing, and harvesting age of purple Napier grass on forage yield, morphological characteristics, and chemical compositions

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP5 Animal behavior and welfare**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP5-2	AAAP-2022-SUB-0017	The impact of photoperiod on broiler performance, serum profile and stress level
2	PP5-4	AAAP-2022-SUB-0065	Correlations between prepartum nest-building behaviour and postpartum maternal characteristics in crated sows
3	PP5-6	AAAP-2022-SUB-0218	The provision of the sling belt as a nesting material in farrowing crates: their effects on sow prepartum behavior
4	PP5-8	AAAP-2022-SUB-0237	Prevalence of tail biting and scoring tail diameter at slaughtered pigs as animal welfare model of swine industry in Korea
5	PP5-10	AAAP-2022-SUB-0297	Effect of crating density in transit on carcass traits and meat quality of broilers considering animal welfare during cold weather
6	PP5-12	AAAP-2022-SUB-0322	Influence of toy and sex on stress related abnormal behaviors and weight gain of finishing pigs
7	PP5-14	AAAP-2022-SUB-0549	Soybean Oil Supplement Enhances Interaction of Horses with Humans by Changing the Plasma Concentration of Serotonin and Cortisol
8	PP5-16	AAAP-2022-SUB-0611	The relationship between the plasma concentrations of melatonin and the behavioral temperament of horses
9	PP5-18	AAAP-2022-SUB-0694	Meat and carcass characteristics of broiler chicken subjected to with or without the level of electrical stunning, halal slaughter and subsequent bleeding
10	PP5-20	AAAP-2022-SUB-0771	Effects of the provision of sling belt and cotton towel on nursing behavior in early lactating sows in crating system

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP6 Animal environment and management**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP6-2	AAAP-2022-SUB-0119	The effect of reducing the pH of fresh-dairy cattle manure on CH <sub>4</sub> emissions
2	PP6-4	AAAP-2022-SUB-0133	Effect of feed additives on fattening ability and its relationship with ruminal biometrics sensed by bio-capsule in Hanwoo steer
3	PP6-6	AAAP-2022-SUB-0149	Prediction of methane emission from manure in different growing stages of pigs using machine learning models
4	PP6-8	AAAP-2022-SUB-0153	Comparison of linear and nonlinear machine learning models for predicting temperature and relative humidity of indoor pig barn
5	PP6-10	AAAP-2022-SUB-0245	ESTIMATION OF GREENHOUSE GAS EMISSIONS FROM THE LIVESTOCK SECTOR IN KOREA
6	PP6-12	AAAP-2022-SUB-0263	Result of factual survey of bedding use for Korean horse stables
7	PP6-14	AAAP-2022-SUB-0294	Analysis of 2nd Generation Digital Livestock Research and Technology Trends in Korean Native Cattle
8	PP6-16	AAAP-2022-SUB-0335	Comparison of functional features between two automatic milking systems
9	PP6-18	AAAP-2022-SUB-0375	CH <sub>4</sub> gas of fresh dairy cattle manure from different storage types
10	PP6-20	AAAP-2022-SUB-0378	A study on the establishment of carbon footprint allocation ratio for Hanwoo (Korean beef)
11	PP6-22	AAAP-2022-SUB-0437	A Study on the Development of Livestock Icon for the Virtual Space Experience of Metaverse Platform
12	PP6-24	AAAP-2022-SUB-0498	Effect of Feeding Behavior on Body Weight of Hanwoo Steers Using an Automated Feeding and Body Weighing System
13	PP6-26	AAAP-2022-SUB-0523	Evaluation of emission factors of gaseous and particulate matters from broiler house
14	PP6-28	AAAP-2022-SUB-0526	Characteristics and Correlation of Ammonia Emission in Mechanically-ventilated Sow Housing during Spring
15	PP6-30	AAAP-2022-SUB-0528	Evaluation of detection performance for body parts of fattening pig in image using deep learning
16	PP6-32	AAAP-2022-SUB-0532	A study on the behavioral criteria for to facilitate the detection of dead and abnormal broilers
17	PP6-34	AAAP-2022-SUB-0545	Comparing Characteristics of Ammonia Emission in Mechanically-Ventilated Sow Housing in Summer and Winter
18	PP6-36	AAAP-2022-SUB-0547	Korea's GHG Inventory with Default and Country-Specific Activity Data using Tier 1 IPCC 2019 Refinement
19	PP6-38	AAAP-2022-SUB-0551	Effect of heat stress on performance, egg quality and blood traits in laying hens

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP6 Animal environment and management**

No.	Abs ID	Submission Nick No.	Title (en)
20	PP6-40	AAAP-2022-SUB-0558	Impacts of organic solvents on earwax cortisol extraction from Hanwoo cattle measured via enzyme immunoassay
21	PP6-42	AAAP-2022-SUB-0601	Coat colour affects stress hormone levels in the serum and hairs of Holstein dairy cows exposed to cold winter
22	PP6-44	AAAP-2022-SUB-0655	Biochemical Methane Potential(BMP) study on the ultrasonication pretreatment for anaerobic digestion of livestock Manure
23	PP6-46	AAAP-2022-SUB-0683	Evaluation Odor Activity Value of Odor Substances from Dairy Farms
24	PP6-48	AAAP-2022-SUB-0733	Annual nitrogen excretion from swine production in Korea was estimated to be approximately 8.9 kg per pig per year
25	PP6-50	AAAP-2022-SUB-0744	Odor concentration estimation using the Principal Component Analysis and Multiple Regression ; In the grow to finish swine barn
26	PP6-52	AAAP-2022-SUB-0765	Artificial intelligence-based calf's natural suckling behavior monitoring technology
27	PP6-54	AAAP-2022-SUB-0770	Low-energy communication interface materialization of wearable sensor for livestock based on BLE
28	PP6-56	AAAP-2022-SUB-0777	Rice hull biochar as an additive to mitigate ammonia emission from composting manure
29	PP6-58	AAAP-2022-SUB-0796	A study on the composting characteristics of poultry manure in an aerated static pile composting system under low-temperature conditions
30	PP6-60	AAAP-2022-SUB-0816	Effect of microbial inocula on composting properties of livestock manure mixture in the winter season
31	PP6-62	AAAP-2022-SUB-0834	Effects of Hanwoo(Korean native cattle) Manure on Corn Cultivation
32	PP6-64	AAAP-2022-SUB-0837	Effects of Swine Manure Refined Liquid Fertilizer and Bio Liquid Fertilizer (Chlorella) Application on Tomato Growth
33	PP6-66	AAAP-2022-SUB-0845	A Study on the Quality Investigation of Composts in Cattle Manure
34	PP6-68	AAAP-2022-SUB-0894	Effects of grazing on fecal microbiota of growing horses

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP7 Animal Reproduction & Physiology(ARP)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP7-2	AAAP-2022-SUB-0022	Examine the Impact of Feed Correction on Steroid Hormones and Biochemical Blood in Saanen Crossbreed Goats Raised by Traditional Farmers in Yogyakarta, Indonesia.
2	PP7-4	AAAP-2022-SUB-0067	The Effect of Oridonin on Sperm Functions via Inhibition of the PI3K/PDK1/AKT Signaling Pathway
3	PP7-6	AAAP-2022-SUB-0107	Effect of High-Fat Diet on Testicular Function of SIRT1-KO Male Mice
4	PP7-8	AAAP-2022-SUB-0141	Using ultrasonic-derived Ovum Pick-Up technology, Efficiency of Embryo development in Elk on oocyte recovery conditions
5	PP7-10	AAAP-2022-SUB-0176	Interaction of Intestinal Environment and Alkaline Phosphatase Activity in Mice
6	PP7-12	AAAP-2022-SUB-0235	A Survey on Claw Lesions of Sows in Korea
7	PP7-14	AAAP-2022-SUB-0248	Advancement of Estrus Detection Based on Comprehensive Consideration of Biometric Data in Dairy Cows
8	PP7-16	AAAP-2022-SUB-0292	Impact of goat milk on boar sperm production in summer
9	PP7-18	AAAP-2022-SUB-0327	Porcine oocyte quality is protected in a modified hydrated sodium calcium aluminosilicate diet from zearalenone toxicity
10	PP7-20	AAAP-2022-SUB-0336	The effect of Nitric Oxide on the motility of rooster semen and acrosome cap reaction
11	PP7-22	AAAP-2022-SUB-0342	The Effect of Estro Synchronization treatment in Hanwoo Repeat breeder
12	PP7-24	AAAP-2022-SUB-0374	Comparison with quality of porcine cumulus oocyte complexes proteins using 2 dimensional electrophoresis
13	PP7-26	AAAP-2022-SUB-0416	A deep learning-based intelligent pregnancy diagnosis in sow stall environment
14	PP7-28	AAAP-2022-SUB-0434	Simple temperature monitoring device for the safty of liquid nitrogen tank
15	PP7-30	AAAP-2022-SUB-0556	RISK OF PREGNANCY IN DAIRY COWS WITH NORMAL OR PATHOLOGICAL PUERPERAL EXAMINATION ACCORDING TO THE TYPE OF VAGINAL DISCHARGE BEFORE THE VOLUNTARY WAITING PERIOD
16	PP7-32	AAAP-2022-SUB-0676	Comparative Effectiveness of Full-length and B-domain of Visfatin in a Mouse Model of Premature Ovarian Failure
17	PP7-34	AAAP-2022-SUB-0684	Evaluation of estrus on rumen environment, behavioral activity, and physiological changes in Korean native breeding cattle
18	PP7-36	AAAP-2022-SUB-0701	Two-cell development arrest by DNA damage-induced cell cycle checkpoint in SOD1-deficient mouse embryos
19	PP7-38	AAAP-2022-SUB-0749	A study on fertilized Korean beef embryo transplantaion using Ovum Pick-Up technology in Jeollanam-do
20	PP7-40	AAAP-2022-SUB-0774	Bisphenol A alters histone-protamine replacement in the male reproductive system through epigenetic changes.
21	PP7-42	AAAP-2022-SUB-0776	Transgenerational inheritance of bisphenol A-induced testicular abnormalities and infertility
22	PP7-44	AAAP-2022-SUB-0779	Distinct molecular pathways govern male fertility according on the animal species
23	PP7-46	AAAP-2022-SUB-0794	Estimation of growth curve for strain in white korea native duck
24	PP7-48	AAAP-2022-SUB-0849	Novel bovine gender selection technology by Y sperm specific binding protein

Poster presentation (PP)

August 24 (Wed) 13:00 – 14:20

PP8 Animal Biotechnology(AB)

No.	Abs ID	Submission Nick No.	Title (en)
1	PP8-2	AAAP-2022-SUB-0037	Genomic Analysis of AVP Gene in Riverine Buffalo Reveals its Potential Association with Silent Estrus Behavior
2	PP8-4	AAAP-2022-SUB-0044	Characterization of age-related gut microbiota in mouse model
3	PP8-6	AAAP-2022-SUB-0086	Efficacy of Newcastle disease virus inactivation and sensitivity of nucleic acid-based testing using flinders technology associates card
4	PP8-8	AAAP-2022-SUB-0104	Screening of TLR2-targeting peptides to develop an effective mucosal vaccine system against infectious swine diseases
5	PP8-10	AAAP-2022-SUB-0157	Inhibitory effects of 7 $\beta$ -22 Dihydroxyhopane from the Lichen, <i>Pseudocyphellaria freycinetii</i> in glioma stem-like cells
6	PP8-12	AAAP-2022-SUB-0233	The Role of Reversine on Adipocyte Differentiation
7	PP8-14	AAAP-2022-SUB-0277	Bovine muscle stem cell proliferation and differentiation with serums and growth
8	PP8-16	AAAP-2022-SUB-0332	SCR7 treatment for CRISPR/Cas9-mediated knock-in reduces expression of the Msh2 gene in mouse mammary epithelial cells
9	PP8-18	AAAP-2022-SUB-0369	Evaluation of growth performance, metabolism, biochemistry, and histology in pigs fed contaminated with deoxynivalenol
10	PP8-20	AAAP-2022-SUB-0407	The key transcription factors regulating germ cell fate directly impact the expression of RNA Binding proteins in chicken
11	PP8-22	AAAP-2022-SUB-0474	Deoxynivalenol induces apoptosis in intestinal porcine epithelial cells via the FOXO3a signaling pathway
12	PP8-24	AAAP-2022-SUB-0504	Anti-inflammatory effect of structured water in LPS-stimulated RAW264.7 macrophage and incisional wound healing in BALB/c mice
13	PP8-26	AAAP-2022-SUB-0543	Transcriptomic analysis of aortic endothelial cells isolated from alpha 1,3-galactosyltransferase knockout pig
14	PP8-28	AAAP-2022-SUB-0594	Analysis of regulatory pathways in muscle of myostatin knock-out chickens
15	PP8-30	AAAP-2022-SUB-0612	Comparison of patterns of proliferation, differentiation, and gene expression of bovine skeletal muscle satellite cells isolated from calf and cattle
16	PP8-32	AAAP-2022-SUB-0645	Low calcium and Yeast hydrolysate supplementation enhances adipocyte differentiation in Hanwoo beef cattle intramuscular Stromal Vascular cells
17	PP8-34	AAAP-2022-SUB-0667	Bacillus-supplemented diet improves growth performance in Jeju native pigs by modulating myogenesis and adipogenesis
18	PP8-36	AAAP-2022-SUB-0708	Insight into the causative genes and pathways associated with tail bones of Korean bob-tailed native dog, Donggyeong dog using gene set enrichment and pathway-based GWAS analysis

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP8 Animal Biotechnology(AB)**

No.	Abs ID	Submission Nick No.	Title (en)
19	PP8-38	AAAP-2022-SUB-0711	Transcriptional profiles of cell signaling pathway genes in the lungs and spleens of highly pathogenic avian influenza virus-infected White Leghorn chickens
20	PP8-40	AAAP-2022-SUB-0725	Anti-inflammatory Effect of SoRegen Technology® water in LPS-stimulated RAW 264.7 Macrophages
21	PP8-42	AAAP-2022-SUB-0730	Effect of Lysophospholipids (Lipidol™) on the differentiation of Hanwoo longissimus-dorsi and semimembranosus satellite cells
22	PP8-44	AAAP-2022-SUB-0737	Effect of heat treatment on the myogenic differentiation in bovine muscle stromal vascular cells
23	PP8-46	AAAP-2022-SUB-0811	Efficiency of Extracellular Matrix for maintenance of Porcine satellite cells in vitro
24	PP8-48	AAAP-2022-SUB-0829	Function of JAZF1 in adipose development and metabolism
25	PP8-50	AAAP-2022-SUB-0838	Cloning endangered Vietnamese Ĩ pig from adult somatic cell
26	PP8-52	AAAP-2022-SUB-0851	The Preventive Effect of Pentoxifylline Supplemented with a Traditional Medicine, Colla corii asini on the Accumulation of Lipid Droplets in a Human HepG2 Cells
27	PP8-54	AAAP-2022-SUB-0857	Effects of Dimethyl Sulfoxide on mouse embryonic development and methylation
28	PP8-56	AAAP-2022-SUB-0874	Transient receptor potential melastatin 7 regulates pluripotency, proliferation, and differentiation of mouse embryonic stem cells via ERK and mTOR signaling.



**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP9 Animal Breeding & Genetics(ABG)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP9-2	AAAP-2022-SUB-0019	Whole Genome Sequencing of Malaysian Kedah-Kelantan bulls (Bos indicus)
2	PP9-4	AAAP-2022-SUB-0039	The highly pathogenic H5N1 avian influenza virus induces the Influenza A pathway in the trachea of two Ri chicken lines.
3	PP9-6	AAAP-2022-SUB-0100	Effect of Environmental Factors Affecting Teat Length and Teat Diameters in Korean Holstein Dairy Cattle
4	PP9-8	AAAP-2022-SUB-0155	Significant association between FSVs in MYH3 gene and myoglobin contents in the crossbred population (Landrace x Jeju native pig)
5	PP9-10	AAAP-2022-SUB-0162	Comparison of survival rate and telomere length among Korean Native Chicken breeds
6	PP9-12	AAAP-2022-SUB-0169	Comparison of Productivity of Korean Native Chickens between the Separate-Sex and Straight-Run Rearing
7	PP9-14	AAAP-2022-SUB-0173	Porcine MYH3 influences muscle fiber-type composition and intramuscular fat content
8	PP9-16	AAAP-2022-SUB-0214	Comparison study of estimated breeding value accuracy by beadchip platform in Hanwoo cattle
9	PP9-18	AAAP-2022-SUB-0220	Single-nucleotide polymorphism data comparison for genetic diversity and group structure of Korean native black goats and crossbred goats
10	PP9-20	AAAP-2022-SUB-0223	Rank Correlation Analysis for pig test end weights at 90 kg and 105 kg
11	PP9-22	AAAP-2022-SUB-0225	Genetic Progress of Korean Swine Improvement Network in Duroc Breeding Stock
12	PP9-24	AAAP-2022-SUB-0227	Runs of Homozygosity Analysis in Korean Holstein Cattle Genome
13	PP9-26	AAAP-2022-SUB-0231	Accuracy of genomic evaluation with single-step genomic BLUP for yearling ultrasound measures of carcass traits in Hanwoo cattle
14	PP9-28	AAAP-2022-SUB-0256	Application of a mathematical model to estimate the transition of milk beta-hydroxybutyrate concentrations on days in milk for dairy cows in Japan
15	PP9-30	AAAP-2022-SUB-0264	Single-step genomic evaluation for carcass traits of cows in the commercial farm of Hanwoo beef cattle
16	PP9-32	AAAP-2022-SUB-0279	Heritability estimates of egg traits and yolk amino acid traits in Hinadori chickens
17	PP9-34	AAAP-2022-SUB-0287	Establishment of genetic mapping population based on crosses of Japanese indigenous chickens

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP9 Animal Breeding & Genetics(ABG)**

No.	Abs ID	Submission Nick No.	Title (en)
18	PP9-36	AAAP-2022-SUB-0334	Mating Patterns and Reproductive Traits Inferred from the Pedigree Analysis in Wild-born Cubs of the Restoring Asiatic Black Bears in the Wild, South Korea
19	PP9-38	AAAP-2022-SUB-0358	A Correlation Analysis of Residual Feed Intake Using Feed TDN and DMI in Hanwoo cattle
20	PP9-40	AAAP-2022-SUB-0363	Estimation of the prediction accuracy for carcass weight of Chikso using Hanwoo information
21	PP9-42	AAAP-2022-SUB-0368	Differentially expressed gene profile associated with carcass traits in Hanwoo life-cycle
22	PP9-44	AAAP-2022-SUB-0371	Molecular Certification for Natural Reproduction of the Red Foxes Released in the Wild, South Korea
23	PP9-46	AAAP-2022-SUB-0395	Analysis of Genetic polymorphism of the avian leukosis virus (ALV) receptors for maintaining economically superior traits in Korean Native Chickens
24	PP9-48	AAAP-2022-SUB-0408	Comparative analysis on the relationship of the peptide binding region of classical MHC class I genes between humans and pigs
25	PP9-50	AAAP-2022-SUB-0423	Profiling of meat tenderness by transcriptomic level analysis on Hanwoo cattle
26	PP9-52	AAAP-2022-SUB-0443	Phylogenetic Analysis of Kyrgyzstan Native Chicken Based on mtDNA D-loop Sequences
27	PP9-54	AAAP-2022-SUB-0451	Primal Cuts Yields by Meat Yield Grade of Hanwoo Steers in Pyoungchang Province of Korea
28	PP9-56	AAAP-2022-SUB-0463	Association between the Genotypes of Galactose Mutarotase (GALM) Gene and Carcass Traits in Korean Native Cattle, Hanwoo Population
29	PP9-58	AAAP-2022-SUB-0507	Genome-wide association studies on collagen contents trait in Hanwoo
30	PP9-60	AAAP-2022-SUB-0583	A study on the introduction of the HACCP-based hazard prevention and management system for Honeybee Drone pupae breeding apiaries
31	PP9-62	AAAP-2022-SUB-0596	Analysis of Environmental effect on Reproductive traits of Korean cow(Hanwoo) in Gyeongnam
32	PP9-64	AAAP-2022-SUB-0634	The Performance of Growth Traits in Endangered Hanwoo Genetic Resources; Chikso, Heugu, and White Hanwoo
33	PP9-66	AAAP-2022-SUB-0644	Application of ultrasound imaging for the determination of meat quality in Bali cattle
34	PP9-68	AAAP-2022-SUB-0649	microRNAs binding to 3' untranslated region within gene related with lipid metabolism in Korean Native cattle

Poster presentation (PP)

August 24 (Wed) 13:00 – 14:20

PP9 Animal Breeding & Genetics(ABG)

No.	Abs ID	Submission Nick No.	Title (en)
35	PP9-70	AAAP-2022-SUB-0651	Genome-wide association for fertility performance in Hanwoo cows and correlation analysis for carcass traits
36	PP9-72	AAAP-2022-SUB-0677	A comparison of North America and Korea national breeding values in Holstein cattle.
37	PP9-74	AAAP-2022-SUB-0679	Genomic analysis using different genotyping platforms in Korea dairy cattle
38	PP9-76	AAAP-2022-SUB-0705	Imputed Whole-Genome Sequence-Based Association Study and Biological Pathway Analysis for Identification of Positional Candidate Genes Influencing a Pork Belly Trait in Yorkshire Pigs
39	PP9-78	AAAP-2022-SUB-0748	Differences in expression of production, immune activity and adaptation related genes in heat stressed Dorper and second cross lambs
40	PP9-80	AAAP-2022-SUB-0760	Genetic correlation between linear classification traits and carcass traits in Hanwoo cattle
41	PP9-82	AAAP-2022-SUB-0782	Prediction equation using records of carcass traits and their relative economic importance for the carcass price of Hanwoo steers
42	PP9-84	AAAP-2022-SUB-0792	Estimation of genetic parameters for Korean Hanwoo female reproductive traits
43	PP9-86	AAAP-2022-SUB-0806	Single-step genomic best linear unbiased prediction for reproductive traits in Korean Hanwoo beef cattle
44	PP9-88	AAAP-2022-SUB-0810	Linkage Disequilibrium Analysis of Commercial Hanwoo Population Using Hanwoo Big Data
45	PP9-90	AAAP-2022-SUB-0814	The Association of Prolactin Gene with Morphological Traits in Three Indonesian Duck Breeds
46	PP9-92	AAAP-2022-SUB-0817	Reproductive performance of Holstein cattle in Korea
47	PP9-94	AAAP-2022-SUB-0820	Evaluation of GEBV accuracy of carcass traits using different reference populations in Jeju Black cattle
48	PP9-96	AAAP-2022-SUB-0841	Estimation of pork carcass lean yield by measuring the fifth rib cross section
49	PP9-98	AAAP-2022-SUB-0847	New bio-technology for swine gender selection by Y sperm specific antibody protein

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP10 Animal Health(AH)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP10-2	AAAP-2022-SUB-0088	Effect of vaccine side effects mitigating agents on foot-and-mouth disease vaccination stress in bovine
2	PP10-4	AAAP-2022-SUB-0098	Factors affecting availing of veterinary services from in India: A regional perspective
3	PP10-6	AAAP-2022-SUB-0132	Age-dependent cytokine expression against foot-and-mouth diseases virus stimulation in bovine peripheral blood mononuclear cells
4	PP10-8	AAAP-2022-SUB-0143	Hematological differences in Hanwoo cows according to maternal age and hematology correlation of pregnant cows and their calves
5	PP10-10	AAAP-2022-SUB-0254	Effects of dietary supplementation of bacteriophage on weaning pigs health status in a contaminated environment
6	PP10-12	AAAP-2022-SUB-0372	Risk Assessment of Biosecurity Level in National Livestock Farm
7	PP10-14	AAAP-2022-SUB-0433	Effect of antifungal agents against Trichophyton verrucosum isolates from cattle
8	PP10-16	AAAP-2022-SUB-0478	Development of advanced monoclonal VHH antibody for protection against virus-induced diarrhea in calves
9	PP10-18	AAAP-2022-SUB-0515	Analysis of Microbiome and Tissue Transcriptome to Understand the Changes of Gut Environment in Chicken by Microalgae supplementation
10	PP10-20	AAAP-2022-SUB-0520	PREVALENCE OF SUBCLINICAL HYPOCALCEMIA AND ITS EFFECT ON KETONEMIA IN MULTIPAROUS PREPARTUM DAIRY COWS FED WITH NEGATIVE ANIONIC-CATIONIC DIFFERENCE DIETS
11	PP10-22	AAAP-2022-SUB-0588	Bacteriological cure rates of the primary intramammary infection due to the secondary intramammary infection of bovine mastitis.
12	PP10-24	AAAP-2022-SUB-0757	Establishment and characterization of canine mammary gland tumor cell lines
13	PP10-26	AAAP-2022-SUB-0892	Anti-obesity effect study of adding freeze-dried loquat leaves powder for pets

**Poster presentation (PP)**

August 24 (Wed) 13:00 – 14:20

**PP11 Animal Microbiology(AM)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP11-2	AAAP-2022-SUB-0071	Analysis of changes in the intestinal microbiota of neonatal Hanwoo calves by the administration of probiotics
2	PP11-4	AAAP-2022-SUB-0079	Bactericidal and virucidal efficacy of potassium peroxymonosulfate and quaternary ammonium compound for inactivation on various carrier surfaces
3	PP11-6	AAAP-2022-SUB-0174	Characterization of bacteriocin-like substance from <i>Ligilactobacillus agilis</i> C7 with anti-listerial activity.
4	PP11-8	AAAP-2022-SUB-0270	Effects of mixed effective microorganisms on growth performance and gut microbiome in finisher pigs
5	PP11-10	AAAP-2022-SUB-0296	The malodor reduction in pig farms through probiotics application
6	PP11-12	AAAP-2022-SUB-0384	Phylogenetic and molecular characteristics of <i>Escherichia coli</i> from diarrheic weaned piglets and human
7	PP11-14	AAAP-2022-SUB-0411	The functional study on host-specific probiotics and postbiotics in companion animals
8	PP11-16	AAAP-2022-SUB-0414	The prevalence of Antimicrobial Resistance on <i>Clostridium perfringens</i> isolated from piglets and grower-finisher pigs in Korea
9	PP11-18	AAAP-2022-SUB-0450	Fecal metagenomic comparison and related pathway under heat stress in layer chicken
10	PP11-20	AAAP-2022-SUB-0456	Effects of dietary supplementation of live bacteria isolated from fast-growing pigs in weaning pigs
11	PP11-22	AAAP-2022-SUB-0461	African Swine Fever Status in Vietnam during 2019–2021 period
12	PP11-24	AAAP-2022-SUB-0465	Molecular characterization of gut microbiome in weaning pigs supplemented with multi-strain probiotics using metagenomic, culturomic, and metabolomic approaches
13	PP11-26	AAAP-2022-SUB-0467	Enhanced biohydrogen production of probiotic <i>Escherichia coli</i> strain Nissle 1917 by adding activated carbon and gene manipulation by CRISPR/Cas9
14	PP11-28	AAAP-2022-SUB-0531	Development of health functional microbial products for cats using cat-derived probiotic strains
15	PP11-30	AAAP-2022-SUB-0587	Validation of Baird parker agar on identification for <i>Staphylococcus aureus</i> from mastitis
16	PP11-32	AAAP-2022-SUB-0657	Characterization and comparison of the vaginal microbiota between Hanwoo and Holstein breeds
17	PP11-34	AAAP-2022-SUB-0740	Metagenomic analysis revealed beneficial effects of canine multi-strain probiotics in gut microbiota

<b>PS7 Animal Production Division</b>					
August 25 (Thu) 08:30 – 10:10					
Chair. Sang-Keek Kang (Seoul National University, Korea)					
No.	Abs ID	Submission Nick No.	Name	Title (en)	
1	PS7-1	AAAP-2022-SUB-0561	Tedeschi Luis	The Limits to Sustainable Beef Cattle Production	
2	PS7-2	AAAP-2022-SUB-0306	Yun Cheol-Heui	Immunosecurity to enhance health status of domestic animals	
<b>PS8 Animal Biotechnology Division</b>					
August 25 (Thu) 08:30 – 10:10					
Chair. Younghoon Kim (Seoul National University, Korea)					
No.	Abs ID	Submission Nick No.	Name	Title (en)	
1	PS8-1	AAAP-2022-SUB-0177	Kang Dae-Kyung	Multi-omics Approaches to Characterize Animal Probiotics	
2	PS8-2	AAAP-2022-SUB-0250	Chen Ming-Ju	Application of multi-omics on animal science	
<b>IS7 Poultry nutrition</b>					
August 25 (Thu) 14:40 – 16:10					
Chair. Ji-hyuk Kim (Kongju National University, Korea)					
No.	Abs ID	Submission Nick No.	Name	Title (en)	
1	IS7-1	AAAP-2022-SUB-0435	Kim Woo Kyun	Functional amino acids and coccidiosis in poultry	
2	IS7-2	AAAP-2022-SUB-0565	Jung Min Heo	The feed additives, and interactions with broiler chickens	
<b>IS8 Animal behavior and welfare</b>					
August 25 (Thu) 14:40 – 16:10					
Chair. Jinhyeon Yun (Chonnam National University, Korea)					
No.	Abs ID	Submission Nick No.	Name	Title (en)	
1	IS8-1	email submission	Pol Llonch	Systematic recording of animal behaviour using PLF technologies to monitor animal welfare	
2	IS8-2	email submission	Shigeru Ninomiya	Animal Behaviour as an Indicator of Animal Welfare	

**IS9 Forage science**

August 25 (Thu) 14:40 – 16:10

Chair. Jong Geun Kim (Seoul National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS9-1	AAAP-2022-SUB-0253	Min Doohong	Sustainable Intensification and Diversification in Forage-Livestock Systems
2	IS9-2	AAAP-2022-SUB-0592	Han Kun Jun	Forage quality analysis as a marketing tool in the US

**IS10 Animal genetics**

August 25 (Thu) 14:40 – 16:10

Chair. Seung Hwan Lee (Chungnam National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS10-1	AAAP-2022-SUB-0417	Park Chankyu	Improvement of resilience to infectious disease in livestock using antimicrobial peptides and MHC genetics
2	IS10-2	AAAP-2022-SUB-0562	Lee Sang Hong	A novel hyper-parameter for a single-step genetic evaluation

**IS11 Animal health**

August 25 (Thu) 14:40 – 16:10

Chair. Ji-Youn Jung (Kongju National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS11-1	AAAP-2022-SUB-0717	Han Hyungchul	Maternal nutrition on offspring growth and development
2	IS11-2	AAAP-2022-SUB-0606	Kim Myunghoo	Animal Host-Microbe Interaction: Dynamic Changes of Immunity and Microbiome in Domestic Animals by Extrinsic Factors

**IS12 Animal microbiology**

August 25 (Thu) 14:40 – 16:10

Chair. Eun Bae Kim (Kangwon National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	IS12-1	email submission	Toshinari Maeda	Effect of Microbiota-Modulating Agents on Anaerobic Digestion
2	IS12-2	AAAP-2022-SUB-0303	Younghoon Kim	Decoding Gut Microbiome-Host Interactions in Animal Science using Culturomic and Metagenomic Approaches

**OP13 Non-ruminant nutrition-3**

August 25 (Thu) 10:30 – 12:00

Chair. Jong Woong Kim (Easyholdings, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP13-1	AAAP-2022-SUB-0773	Micro-chromium picolinate (CrPic) is more efficacious than normal CrPic in finisher pigs
2	OP13-2	AAAP-2022-SUB-0387	Evaluation of optimal SID His:Lys ratio based on functional role of His in nursery pigs
3	OP13-3	AAAP-2022-SUB-0035	Determination and validation of dietary phosphorus equivalency of an Escherichia coli-derived phytase in broiler chickens
4	OP13-4	AAAP-2022-SUB-0880	Determination and Prediction of Apparent Metabolizable Energy Concentration in Rice and Rice Milling Co-Products Fed To Broilers
5	OP13-5	AAAP-2022-SUB-0619	The efficiency of raising meat-type squab by racing pigeon
6	OP13-6	AAAP-2022-SUB-0697	Effects of plant extract supplementation in drinking water on the physico-chemical attributes, sensory evaluation and oxidative stability of chicken meat

**OP14 Ruminant nutrition-3**

August 25 (Thu) 10:30 – 12:00

Chair. Tan Sol Park (Chung-Ang University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP14-1	AAAP-2022-SUB-0476	The effects of brittle rice straw on behavior and rumen ecology in Holstein cows
2	OP14-2	AAAP-2022-SUB-0475	Characterize rumen fermentation characteristics, nutrient degradation, and microorganisms of the brittle rice straw in vitro
3	OP14-3	AAAP-2022-SUB-0593	Growth performance, nutrient digestibility, carcass characteristics and in vitro gas production in Philippine native goats (Capra hircus) fed total mixed rations
4	OP14-4	AAAP-2022-SUB-0499	The effects of dietary forage and energy levels on rumen fermentation characteristics, CH <sub>4</sub> emission, and rumen microbiota in Hanwoo steer
5	OP14-5	AAAP-2022-SUB-0574	Digestibility Evaluation of Ration Containing Black Soldier Fly Frass with Fermented Cacao Pod Media: An In Vitro Approach
6	OP14-6	AAAP-2022-SUB-0351	Severe heat stress may promote bovine adipose tissue development by altering transcription factors.



**OP15 Animal product-2**

August 25 (Thu) 10:30 – 12:00

Chair. Gap-Don Kim (Seoul National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP15-1	AAAP-2022-SUB-0446	Enhancing Shelf Life of Toned Carabao Milk Through Retort Processing
2	OP15-2	AAAP-2022-SUB-0432	Edible mycoprotein as alternative proteins in food and feed system, influences the longevity and fat accumulation of <i>Caenorhabditis elegans</i> animal model
3	OP15-3	AAAP-2022-SUB-0033	PCR based rapid method for detection and identification of meat species and its validation in meat sausages
4	OP15-4	AAAP-2022-SUB-0182	Evaluation of radiofrequency tempering combined with conventional thawing on physicochemical properties and water-holding status of pork loins
5	OP15-5	AAAP-2022-SUB-0112	Oyster mushroom ( <i>Pleurotus ostreatus</i> ) powder as a potential phosphate alternative by improving emulsifying capacity

**OP16 Animal reproduction & physiology-3**

August 25 (Thu) 10:30 – 12:00

Chair. Youngsok Choi (Konkuk University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP16-1	AAAP-2022-SUB-0386	Influence of Ovarian Structures and Pre-Ovulatory Follicular Size on Pregnancy Rates after CIDR-Synch Fixed Timed Artificial Insemination in Water Buffaloes
2	OP16-2	AAAP-2022-SUB-0187	Proteomic Analysis to Identify Pesticide-Induced Molecular Defects in Spermatozoa
3	OP16-3	AAAP-2022-SUB-0106	Alteration of Testicular Function by Gut Dysbiosis on Male Mice
4	OP16-4	AAAP-2022-SUB-0092	Cryogenic tolerance of locally processed extended boar semen commercially marketed for Artificial Insemination use in the Philippines
5	OP16-5	AAAP-2022-SUB-0058	Influences of melatonin on the developmental potential of porcine parthenotes derived from the in vitro-maturated oocytes isolated from the small antral follicles

**OP17 Animal microbiology-2**

August 25 (Thu) 10:30 – 12:00

Chair. Jong Nam Kim (Dongseo University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP17-1	AAAP-2022-SUB-0047	Inhibition of Salmonella Growth by Formalin
2	OP17-2	AAAP-2022-SUB-0458	Evaluation of probiotic functionality of Weizmannia coagulans with regulation of gut microbiota using in vitro complex intestinal microbial ecosystem
3	OP17-3	AAAP-2022-SUB-0541	Latilactobacillus curvatus BYB3 Isolated from Kimchi Alleviates Dextran Sulfate Sodium (DSS)-Induced Colitis in Mice by Inhibiting IL-6 and TNF-R1 Production
4	OP17-4	AAAP-2022-SUB-0431	Isolation and characterization of rumen-originated “Enbiotics” with plastic degradation and methane mitigation
5	OP17-5	AAAP-2022-SUB-0266	Gut Microbial Modulation Effects of Sophorolipid in Various Animal Models
6	OP17-6	AAAP-2022-SUB-0122	Characterization of a two-peptide bacteriocin from Enterococcus faecalis CAUM157 in whey-based media with activity against Listeria monocytogenes and periodontitis-causing pathogens

**OP18 Animal breeding & genetics-3**

August 25 (Thu) 10:30 – 12:00

Chair. Hee-Bok Park (Kongju National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP18-1	AAAP-2022-SUB-0185	Sequence-based SNP detection of Insulin-Like Growth Factor II (IGF2) Gene in Korean Native Chicken (KNC)
2	OP18-2	AAAP-2022-SUB-0181	Role of genetics in swine inflammation and necrosis syndrome
3	OP18-3	AAAP-2022-SUB-0135	Single and multi-breed ssGBLUP using preselected variants from whole-genome sequence data in pigs
4	OP18-4	AAAP-2022-SUB-0081	Identification of a missense variant in MC1R gene associated with white coat color in Taiwan buffalo based on a genome-wide association study
5	OP18-5	AAAP-2022-SUB-0043	Profiling of Exosomal miRNA from chickens infected with influenza virus subtype H5N1
6	OP18-6	AAAP-2022-SUB-0040	Exosomes derived from poly(I:C)-stimulated chicken macrophages regulate the immune response through NF- $\kappa$ B signaling pathway

**OP19 Non-ruminant nutrition-4**

August 25 (Thu) 16:30 – 18:00

Chair. Eileen Han (CJ Bio, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP19-1	AAAP-2022-SUB-0633	Artificial GIT model and in vivo study for effect of xylanase supplement in swine diet
2	OP19-2	AAAP-2022-SUB-0054	Postbiotic Lactobacillus fermentate modulates mucosa-associated microbiota and enhance intestinal health of nursery pigs challenged with enterotoxigenic F18+ Escherichia coli
3	OP19-3	AAAP-2022-SUB-0219	The supplementary effect of Moringa oleifera leaf in the drinking water on performance, digestive organ weights, and abdominal fat of broilers in starter phase
4	OP19-4	AAAP-2022-SUB-0309	The dose-response of Scopoletin-rich supplement on growth performance, antioxidant activity, and meat quality of Korean native broiler chickens
5	OP19-5	AAAP-2022-SUB-0876	Effect of Standardized Ileal Digestible Lys-to-ME Ratios in Broilers Fed Low Crude Protein, Amino Acid-Supplemented Diets
6	OP19-6	AAAP-2022-SUB-0563	Nutrition Value of added mealworm (Tenebrio Molitor) on organic broiler feed

**OP20 Ruminant nutrition-4**

August 25 (Thu) 16:30 – 18:00

Chair. Minseok Kim (Chonnam National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP20-1	AAAP-2022-SUB-0291	Effect of dietary rumen-undegradable protein level on nitrogen metabolism in Hanwoo steers
2	OP20-2	AAAP-2022-SUB-0288	Growth Performance and Nutrient Digestibility in Lambs Supplemented with Dried Brewer's Spent Grain
3	OP20-3	AAAP-2022-SUB-0194	Synchrotron-Based Technology as a Novel Approach for Feed Science and Animal Nutrition Research
4	OP20-4	AAAP-2022-SUB-0090	In vitro evaluation of low moisture feed licks on ruminal foam properties
5	OP20-5	AAAP-2022-SUB-0046	Effect of microwave treated forage hays on sheep intake, digestion, nitrogen partitioning and metabolism

**OP21 Animal health-2**

August 25 (Thu) 16:30 – 18:00

Chair. Hyungchul Han (California State Polytechnic University, USA)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP21-1	AAAP-2022-SUB-0513	Comparison of Exosomal miRNA Profiling Reveals Infection Mechanisms for Different Virulent Types of PRRSV in BALF
2	OP21-2	AAAP-2022-SUB-0131	A postbiotic consisting of heat-inactivated Lactobacilli and their metabolites from spent fermentation medium reduces diarrhea and improves performance in weaned piglets compared to Zinc Oxide
3	OP21-3	AAAP-2022-SUB-0124	Influence of sodium acetate and sodium butyrate on tight junction barrier and antimicrobial component production in goat mammary glands
4	OP21-4	AAAP-2022-SUB-0082	In Silico Analysis of Potential Inhibitors Against Cysteine Protease S273R (pS273R) of the African Swine Fever Virus
5	OP21-5	AAAP-2022-SUB-0196	New phytogetic anti-coccidial agent reduced Eimeria sporozoites infection and enhanced prevention against avian coccidiosis.

**OP22 Animal behavior and welfare**

August 25 (Thu) 16:30 – 18:00

Chair. Jinhyeon Yun (Chonnam National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP22-1	AAAP-2022-SUB-0695	Effect of environmental enrichment devices on growth performance and feather quality in White Roman goslings
2	OP22-2	AAAP-2022-SUB-0692	Methyl anthranilate as Pig Repellent: Effects on the feeding behavior and production performance
3	OP22-3	AAAP-2022-SUB-0668	Prepartum nest-building and postpartum nursing behavior in sows: comparison between hyperprolific and non-hyperprolific
4	OP22-4	AAAP-2022-SUB-0333	Effect of pre-slaughter pig transport condition on animal welfare and meat quality
5	OP22-5	AAAP-2022-SUB-0064	Stimulating prepartum nest-building behavior by provision of sling belt improves the farrowing process of the sows in the crate
6	OP22-6	AAAP-2022-SUB-0060	Correlation of Animal-based parameters with environment-based parameters in an on-farm welfare assessment of growing pigs

**OP23 Animal biotechnology-2**

August 25 (Thu) 16:30 – 18:00

Chair. Sang-gu Yeo (Sejong Institute of Health & Environment, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP23-1	AAAP-2022-SUB-0599	Genetic Diversity and Morphological Characterization of Philippine Carabao ( <i>Bubalus bubalis</i> swamp-type) Using Microsatellite Markers: Approach to Conservation and Management
2	OP23-2	AAAP-2022-SUB-0505	Immunomodulatory effects of structured water on Murine Lymphocytes and Peritoneal Macrophages
3	OP23-3	AAAP-2022-SUB-0472	Effects of heat stress exposure on porcine muscle satellite cells
4	OP23-4	AAAP-2022-SUB-0440	Effects of heat shock protein gene polymorphisms on meat performance, some physiological and biochemical parameters of blood in local chickens in the Mekong Delta, Vietnam
5	OP23-5	AAAP-2022-SUB-0147	A study on the effect of Korean representative traditional fermented foods on carcinogens in processed meat products

**OP24 Animal environment and management**

August 25 (Thu) 16:30 – 18:00

Chair. Hee-kwon Ahn (Chungnam National University, Korea)

No.	Abs ID	Submission Nick No.	Title (en)
1	OP24-1	AAAP-2022-SUB-0856	Central taurine affords thermotolerance and regulates thermogenic genes expressions in the breast muscle in neonatal chicks
2	OP24-2	AAAP-2022-SUB-0663	Understanding large ruminant smallholder farmer trading behaviour and attitudes in Lao PDR
3	OP24-3	AAAP-2022-SUB-0559	Measuring the Efficiencies of Dairy Buffalo Farms in the Philippines Using Data Envelopment Analysis
4	OP24-4	AAAP-2022-SUB-0511	Poultry behavior analysis with Computer Vision AI-based Analysis System
5	OP24-5	AAAP-2022-SUB-0763	Development of Cattle Growth Model Using Functional Data Analysis and Computer Vision Technique
6	OP24-6	AAAP-2022-SUB-0186	Herd-build up through Advanced Reproductive Technology and its impact on Dry Matter Requirement of a 100-cow level farm in the Philippines: A Simulation

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP1 Non-ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP1-1	AAAP-2022-SUB-0045	Comparing effect of selenium from selenium-enriched kale sprout and selenium-enriched yeast on laying hens
2	PP1-3	AAAP-2022-SUB-0053	The Effect of "Organic Protein" in Feed on the Internal Organ Weight, Carcass Quality, and Enzymes Activity of Broiler
3	PP1-5	AAAP-2022-SUB-0073	Effect of nano zinc oxide or chelated zinc as alternatives to medical zinc oxide in weaned piglets
4	PP1-7	AAAP-2022-SUB-0137	The safety evaluation of Hericium erinaceus to use as a pet food ingredient for aged dogs
5	PP1-9	AAAP-2022-SUB-0166	Interactive effect of dietary tryptophan and niacin supplementation on productive performance, egg quality, and serum measurement of laying hens raised under heat stress conditions
6	PP1-11	AAAP-2022-SUB-0180	Effect of dietary glycine supplementation on growth performance and intestinal morphology in broiler chickens raised under heat stress conditions
7	PP1-13	AAAP-2022-SUB-0201	Effects of dietary organic and inorganic selenium supplementation on growth performance, blood constituents, and carcass characteristics of growing-finishing pigs
8	PP1-15	AAAP-2022-SUB-0203	Effects of dietary mixed sources of selenium supplementation on growth performance, blood constituents, Se concentration, and carcass characteristics of growing-finishing pigs
9	PP1-17	AAAP-2022-SUB-0208	Effects of temperature and humidity index on growth performance and immune response in growing pigs.
10	PP1-19	AAAP-2022-SUB-0216	Comparison of growth performance, body shape, and blood constituents of crossbred and Woori black pigs
11	PP1-21	AAAP-2022-SUB-0273	Estimating the matrix value of xylanase in wheat -added diets for broilers
12	PP1-23	AAAP-2022-SUB-0278	Efficacy of Bacillus toyonensis M15750 on the growth performance and fecal score of weaning piglets compared to Bacillus toyonensis BCT-7112T
13	PP1-25	AAAP-2022-SUB-0282	Influence of protected organic acids on growth performance, fecal microbial, gas emission, and nutrient digestibility in growing pigs.
14	PP1-27	AAAP-2022-SUB-0298	Effects of mixed emulsifiers on blood metabolites, ileal morphology, and meat quality of broiler chickens
15	PP1-29	AAAP-2022-SUB-0308	Effects of dietary Bacillus subtilis and oregano essential oil supplementation on growth performance, blood characteristics, and intestinal morphology of pullets

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP1 Non-ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
16	PP1-31	AAAP-2022-SUB-0313	Supplementation of fiber during gestation on reproductive performance of heat-stressed sows
17	PP1-33	AAAP-2022-SUB-0315	The carry-over effects of <i>Lactobacillus salivarius</i> isolated from feces of fast-growing pigs in suckling piglets creep feed on the performance during the weaning period
18	PP1-35	AAAP-2022-SUB-0317	Effects of dietary level of immunoSEB plus a probiotic on performance and gut microflora of weanling pigs
19	PP1-37	AAAP-2022-SUB-0337	Effects of dietary probiotic ( <i>Pediococcus acidilactici</i> CNCM I-4622) supplementation on growth and egg production performance in laying hens
20	PP1-39	AAAP-2022-SUB-0344	Nourish neonates with synthetic milk and <i>Lactobacillus</i> sp. supplementation at birth highly modifies the gut microbial communities at post-weaning stage
21	PP1-41	AAAP-2022-SUB-0380	Free IGF-1 improved performance of sows and piglets
22	PP1-43	AAAP-2022-SUB-0390	Dietary bacteriophage lowers cecal <i>Clostridium perfringens</i> counts of broiler chickens
23	PP1-45	AAAP-2022-SUB-0400	Effect of dietary octacosanol concentration extracted from triticale sprout on performance, egg quality, and blood parameters of laying hens
24	PP1-47	AAAP-2022-SUB-0421	Effects of feeding timing of green tea extract and vitamin C supplementation on growth performance and immune response of broiler exposed to heat stress
25	PP1-49	AAAP-2022-SUB-0460	Effects of dietary xylanase in a commercial diet on growth performance, nutrient digestibility, blood profiles, and immune responses of weaned pigs
26	PP1-51	AAAP-2022-SUB-0516	Effects of feeding Italian ryegrass silage on growth performance and carcass characteristics in finishing pigs with or without multi-enzyme
27	PP1-53	AAAP-2022-SUB-0533	Evaluation of growth performance and immune activity after feeding spore probiotics to weaned pigs
28	PP1-55	AAAP-2022-SUB-0572	Effects of different crude fiber levels on reproductive performance and stress on sows during heat stress
29	PP1-57	AAAP-2022-SUB-0582	Dietary supplementation with fermented tea processing by-products on growth performance and lipid-metabolism-related genes in chickens
30	PP1-59	AAAP-2022-SUB-0614	The effect of bile salt during in vitro digestion procedure of dog's food

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP1 Non-ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
31	PP1-61	AAAP-2022-SUB-0624	Effects of different levels of dietary crude protein on growth performance, blood profiles, diarrhea incidence and odour emission in weaning pigs
32	PP1-63	AAAP-2022-SUB-0629	Effect of zinc oxide and probiotics on growth performance, immune response, diarrhea index and fecal microflora in weaning pigs
33	PP1-65	AAAP-2022-SUB-0632	Effects of the different manufacturing processes of black soldier fly larvae meal on growth performance and blood profiles in broilers
34	PP1-67	AAAP-2022-SUB-0636	Effects of ginseng by-product supplementation on growth performance, immunoglobulins, and corticosterone in broilers under heat stress
35	PP1-69	AAAP-2022-SUB-0664	A continuous and reliable enzyme assay platform to predict NSPase activity in monogastric digestive system
36	PP1-71	AAAP-2022-SUB-0686	Effects of Dietary Vitamin and Trace Mineral Premix Levels on Physiological Responses, Litter Performance, Blood Profiles, Milk Composition and Feed Cost in Lactating Sows
37	PP1-73	AAAP-2022-SUB-0693	Prediction equations for in vitro ileal disappearance of dry matter and crude protein in dog diets based on chemical composition
38	PP1-75	AAAP-2022-SUB-0716	An in vitro ileal disappearance procedure for standardized ileal digestibility of crude protein in nursery pigs
39	PP1-77	AAAP-2022-SUB-0732	Basal endogenous losses and standardized ileal digestibility of amino acids in soybean meal were not different between 20- and 60-kg body weight pigs
40	PP1-79	AAAP-2022-SUB-0738	Lowering dietary protein concentrations reduces nitrogen excretion with minor effects on growth performance in pigs fed amino acid-balanced diets
41	PP1-81	AAAP-2022-SUB-0753	Feeding Different Organic Sources of Selenium and Vitamin E on Egg Yolk Oxidative Status
42	PP1-83	AAAP-2022-SUB-0795	Effect of dietary ME value on performance and egg quality of Woorimatdak in laying starter period
43	PP1-85	AAAP-2022-SUB-0833	Effects of microalgae and probiotic supplementation on growth performance and antioxidant enzyme activities in broiler chickens
44	PP1-87	AAAP-2022-SUB-0846	Effects of SoRegen Technology® feed on the growth performance and carcass quality in broiler chickens
45	PP1-89	AAAP-2022-SUB-0865	Effect of urinary calculus prescription diet on the body weight, intake, and blood profiles of cats



**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP1 Non-ruminant nutrition**

No.	Abs ID	Submission Nick No.	Title (en)
46	PP1-91	AAAP-2022-SUB-0869	A study on the improvement of the effect of plant protein feed sources
47	PP1-93	AAAP-2022-SUB-0871	The effects of different protein levels and feeding frequency on weaned piglets behavior
48	PP1-95	AAAP-2022-SUB-0878	Energy Concentration, Nutrient and Dietary Fiber Digestibilities of Banana Meal in Growing Pigs
49	PP1-97	AAAP-2022-SUB-0881	Determination and Prediction of Apparent Metabolizable Energy Concentration in Coconut Co-Products Fed To Broilers
50	PP1-99	AAAP-2022-SUB-0895	Assigning animals into experimental groups that have as similar mean and variance as possible with EXCEL VBA Macro

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP2 Ruminant Nutrition (RN)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP2-1	AAAP-2022-SUB-0051	The impact of the fecal microbiome on feed efficiency in early fattening Hanwoo steers
2	PP2-3	AAAP-2022-SUB-0055	Supplemental effects of bypass fat, glycerol, and soybean meal on performance in late-fattening Hanwoo steers under the heat stress condition
3	PP2-5	AAAP-2022-SUB-0062	The Study of nutritive value of legumes as ruminant feed in Raman district, Yala Province, Thailand
4	PP2-7	AAAP-2022-SUB-0080	Effects of energy feeds on Hanwoo rumen fermentation characteristics and microbial amino acids composition in vitro
5	PP2-9	AAAP-2022-SUB-0101	Development of customized milk replacer and optimization of artificial weaning program for the Hanwoo calves
6	PP2-11	AAAP-2022-SUB-0184	Evaluation of in vitro methane production in differently-treated soybean meals and a rumin-up containing cashew nutshell liquid
7	PP2-13	AAAP-2022-SUB-0198	Comparison of ruminal fermentation of rice straw fiber between Korean native ruminants
8	PP2-15	AAAP-2022-SUB-0257	Effects of plant extracts (olive leaf and pine cone) on in vitro ruminal methane emission and fermentation characteristics
9	PP2-17	AAAP-2022-SUB-0330	Nonlinear regression growth models of Korean female Jersey cattle using Gompertz, von Bertalanffy and Logistic models
10	PP2-19	AAAP-2022-SUB-0346	Effects of coated L-tryptophan and L-ascorbic acid supplementation for productivity of Holstein dairy cow under heat stress condition
11	PP2-21	AAAP-2022-SUB-0348	Relationship between the Supplemental Level of Lupin Flake and Growth Performance, Blood Metabolites, Carcass Characteristics, and Meat Composition in Hanwoo Steers
12	PP2-23	AAAP-2022-SUB-0350	Effects of the Supplementation of Expanded Flaxseed on Growth Performance, Blood Metabolites, and Carcass Characteristics of Hanwoo Steers
13	PP2-25	AAAP-2022-SUB-0393	Association of single nucleotide polymorphisms and physiological parameters for heat tolerance of Holstein dairy cows
14	PP2-27	AAAP-2022-SUB-0401	Effects of fermented seaweed ( <i>Saccharina japonica</i> ) by-products on in vitro fermentation parameters and milk yield of Korean native goats ( <i>Capra hircus coreanae</i> )
15	PP2-29	AAAP-2022-SUB-0410	Effects of supplemented resveratrol levels on in vitro rumen fermentation and growth performance of Hanwoo calves
16	PP2-31	AAAP-2022-SUB-0422	Effects of probiotics including <i>C.militaris</i> inclusion on in vitro rumen fermentation

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP2 Ruminant Nutrition (RN)**

No.	Abs ID	Submission Nick No.	Title (en)
17	PP2-33	AAAP-2022-SUB-0426	The supplementation of medicinal herbs affects in vitro methane production and the composition of ruminal microbiome
18	PP2-35	AAAP-2022-SUB-0441	Comparative analysis of in vivo digestibility of Italian Rye grass silage, and oat hay for beef cattle
19	PP2-37	AAAP-2022-SUB-0494	Effects of crude protein level of concentrate mix on growth performance, rumen parameters, and methane production in Hanwoo steers
20	PP2-39	AAAP-2022-SUB-0509	Evaluation of slow release urea and slow release nitrate as dietary additives in ruminants
21	PP2-41	AAAP-2022-SUB-0538	Effects of rumen-protected choline with soluble vitamins supplementation on hepatic functions and carcass characteristics in Hanwoo steers
22	PP2-43	AAAP-2022-SUB-0553	Effects of L-glutamine supplementation on the growth performance, hematological parameters, and carcass traits of Hanwoo heifers based on heat-shock protein beta-1 genotype
23	PP2-45	AAAP-2022-SUB-0560	Effect of fungal treated sugarcane bagasse on voluntary feed intake, nutrient digestion and rumen fermentation end products in meat goats
24	PP2-47	AAAP-2022-SUB-0598	Determination of maintenance energy requirements for fattening korean black goats(CAPRA HIRCUS COREANAE) in group housing type
25	PP2-49	AAAP-2022-SUB-0652	Development of endolysin having lytic activity against methicillin-resistant Staphylococcus aureus to prevent bovine mastitis
26	PP2-51	AAAP-2022-SUB-0654	The synergistic effect of blended buffer product with buffer agents on ruminal fermentation characteristics in an in vitro rumen fermentation system
27	PP2-53	AAAP-2022-SUB-0662	Development and Evaluation of a Model for Predicting Dry Matter Intake of lactating dairy cows using the Support Vector Regression Algorithm
28	PP2-55	AAAP-2022-SUB-0671	Effect of polyphenols (GREEN-ADD) on (in vitro) rumen fermentation of Hanwoo
29	PP2-57	AAAP-2022-SUB-0688	Blooming Ulva sp. can be utilized as a feed additive ingredient in the beef industry
30	PP2-59	AAAP-2022-SUB-0709	The effects of supplementation of an activated charcoal on in vitro rumen fermentation
31	PP2-61	AAAP-2022-SUB-0727	Comparative analysis of blood characteristics based on marbling score levels of fattening Hanwoo steer
32	PP2-63	AAAP-2022-SUB-0751	Metabolic Effects of Supplementing Corn Sprouts in Multiparous Dairy Buffaloes from Transition Period to Early Lactation

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP2 Ruminant Nutrition (RN)**

No.	Abs ID	Submission Nick No.	Title (en)
33	PP2-65	AAAP-2022-SUB-0791	Greenhouse gas balance and carbon footprint assessment of Korean native beef cattle farms in Jeolla-do province: Implications for mitigation strategies
34	PP2-67	AAAP-2022-SUB-0799	Effect of Hemi-Castration on the Growth Performance, Carcass Characteristics and Intramuscular Adipose Tissues of Korean Beef Cattle
35	PP2-69	AAAP-2022-SUB-0813	Nutritional Evaluation of Hydroponic Corn Fodder and its Effect as a Substitute for Feed Concentrates in Feeding Buffalo Calves
36	PP2-71	AAAP-2022-SUB-0861	The Effects of Purple Napier Grass Silage on Milk Yield and Milk Compositions in Dairy Goats
37	PP2-73	AAAP-2022-SUB-0877	Effect of storage period on chemical composition and fermentation characteristics of Sugarcane Silage
38	PP2-75	AAAP-2022-SUB-0890	Untargeted metabolic profiling of serum and milk in lactating dairy cows affected by heat stress

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP3 Animal Product(AP)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP3-1	AAAP-2022-SUB-0020	Incidence of pale, soft, and exudative (PSE) chicken meat at a commercial broiler processing plant and its effect on marinated chicken breast
2	PP3-3	AAAP-2022-SUB-0057	Ciphering the potential of synchronous fluorescence spectroscopy to predict thermal changes in meat
3	PP3-5	AAAP-2022-SUB-0084	Predicting the pork loin quality using various quality properties and electrical conductivity
4	PP3-7	AAAP-2022-SUB-0095	Effect of muscle part on nutritional composition and quality traits in head meat from finishing castrated pig
5	PP3-9	AAAP-2022-SUB-0102	Comparison of bioactive compounds and metabolomic characteristics of Hanwoo and imported beef
6	PP3-11	AAAP-2022-SUB-0109	Inoculation of different microorganisms on dry-aged beef as a starter and their effect on physicochemical and metabolic changes
7	PP3-13	AAAP-2022-SUB-0114	Characterization of microbial community composition and pathogens risk assessment in Korean fermented sausage by high-throughput sequencing technology
8	PP3-15	AAAP-2022-SUB-0116	The effect of lairage on the metabolomic profiles of pork loin
9	PP3-17	AAAP-2022-SUB-0142	Physicochemical characteristics and sensory acceptability of dairy beef round by cooking method
10	PP3-19	AAAP-2022-SUB-0154	Effect of bovine blood vitamin A concentration on pupil area change rate
11	PP3-21	AAAP-2022-SUB-0159	Changes in the Quality of Pork by packaging method after Aging using Jeju Scoria Pot
12	PP3-23	AAAP-2022-SUB-0164	Bactericidal effect on pork loin by treatment of plasma-activated acetic acid
13	PP3-25	AAAP-2022-SUB-0188	Effect of Specific Pre-cooking Methods on the Quality Characteristics of Retorted Satay Taichan during Storage
14	PP3-27	AAAP-2022-SUB-0217	Effects of emulsified Coenzyme Q10 on the antioxidant system of the blood and liver in Laying Hens
15	PP3-29	AAAP-2022-SUB-0238	Culturing of Satellite Cells Isolated from Jeju Black Cattle Semimembranosus Muscle and Genes Analysis related to Taste for Cell Cultured Meat
16	PP3-31	AAAP-2022-SUB-0241	Effects of Honeybee Comb Extract on Storage Characteristics of Pork Patties During Refrigerated Storage
17	PP3-33	AAAP-2022-SUB-0255	Transmission of the microbiome, resistome, and virulome from the pork meat production to distribution phase
18	PP3-35	AAAP-2022-SUB-0268	Analysis of the muscle composition and correlation of muscle fiber types between pork belly and butt

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP3 Animal Product(AP)**

No.	Abs ID	Submission Nick No.	Title (en)
19	PP3-37	AAAP-2022-SUB-0320	Application of a newly developed chitosan/oleic acid edible coating for extending shelf-life of fresh pork
20	PP3-39	AAAP-2022-SUB-0354	The level of use of Garlic ( <i>Allium sativum</i> ) as a Feed Additive to Energy Intake, Carcass, Abdominal Fat in Hybrid Ducks
21	PP3-41	AAAP-2022-SUB-0381	Relationship between proteolysis and shear force of Hanwoo longissimus lumborum compared with aging duration, packaging and grade
22	PP3-43	AAAP-2022-SUB-0430	Effect of carbon dioxide (CO <sub>2</sub> ) gas stunning method on quality characteristics of pork small intestine at factory scale
23	PP3-45	AAAP-2022-SUB-0482	Chemical and Sensory Properties of Sour Cream Using Anhydrous Milk Fat
24	PP3-47	AAAP-2022-SUB-0566	Quality Characteristics and Volatile Organic Compounds of Fried Korean Native Chicken Leg Meat
25	PP3-49	AAAP-2022-SUB-0630	Anaerobic Method For Eliminating Antibiotic Residue Of Mastitis Treatment In Cow's Milk Using Kefir Grain
26	PP3-51	AAAP-2022-SUB-0750	Volatile flavor constituents and their comparison in cooked pork, beef and chicken
27	PP3-53	AAAP-2022-SUB-0758	Effect of lairage time on the occurrence of pale, soft, exudative (PSE) condition and physicochemical properties of chicken breast meat
28	PP3-55	AAAP-2022-SUB-0764	Changes in stress hormones concentration and meat quality according to stunning methods of broilers
29	PP3-57	AAAP-2022-SUB-0767	Characteristics of free fatty acid and amino acid composition from Hanwoo veals with different rearing periods
30	PP3-59	AAAP-2022-SUB-0783	Comparison of water holding capacity in semimembranosus, semitendinosus, and biceps femoris between the sow and commercial pig
31	PP3-61	AAAP-2022-SUB-0842	Effect of Fermentation Time on Lapan (Rabbit Meat) Jerky Processing
32	PP3-63	AAAP-2022-SUB-0883	The effects of sucrose and nitrite various addition levels on physicochemical and sensory quality of Indonesian-style restructured goat dendeng

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP4 Forage Science and Feed Technology(FSFT)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP4-1	AAAP-2022-SUB-0027	The difference in production of sorghum-sudangrass hybrid between normal and abnormal climate scenarios in Korea
2	PP4-3	AAAP-2022-SUB-0029	Yield of sorghum-sudangrass hybrid under the climate event scenarios in Korea
3	PP4-5	AAAP-2022-SUB-0031	The impact of extreme scenarios affecting production of sorghum-sudangrass hybrid in Korea
4	PP4-7	AAAP-2022-SUB-0113	Study on hay preparation technology for sorghum x sudangrass hybrid [Sorghum bicolor (L.) Moench] using stationary far-infrared dryer
5	PP4-9	AAAP-2022-SUB-0123	Study on hay preparation technology for alfalfa(Medicago sativa L.) using stationary far-infrared dryer
6	PP4-11	AAAP-2022-SUB-0129	Comparative study of seed productivity of Italian ryegrass (Lolium multiflorum Lam.) 'GreenCall' according to seeding distance in the Southern Region of Korea
7	PP4-13	AAAP-2022-SUB-0138	Effects of Different Moisture contents and Storage Duration on the Chemical Composition and Fermentation Quality of Alfalfa Wrapping Round Bale Silage
8	PP4-15	AAAP-2022-SUB-0290	Effects of Sowing Date on Growth Characteristics and Dry Matter Yield of Alfalfa
9	PP4-17	AAAP-2022-SUB-0302	Analysis of feed mixer efficiencies of feed manufacturers in the Philippines from 2017 to 2021
10	PP4-19	AAAP-2022-SUB-0359	Fermentation of triticale silage with Lactobacillus plantarum-A29 under low moisture condition
11	PP4-21	AAAP-2022-SUB-0362	Growth and productivity of corn cultivars at different environmental locations in Korea
12	PP4-23	AAAP-2022-SUB-0484	Lower-Lignin Alfalfa Effects on Agronomic Characterization and Productivity and Energetics of Lactating Dairy Cows
13	PP4-25	AAAP-2022-SUB-0578	Effect of plant species diversity in pasture on ruminal and fecal bacterial community of grazing Japanese Black cows
14	PP4-27	AAAP-2022-SUB-0617	Calculation of WCM Damage through WMO and Machine Learning Model in abnormal climate and its Mapping
15	PP4-29	AAAP-2022-SUB-0672	Distinction of Shepherd's purse in Grassland using UAV's Spectral Sensor
16	PP4-31	AAAP-2022-SUB-0674	Investigating water deficiency of forage maize using CWSI camera
17	PP4-33	AAAP-2022-SUB-0696	Changes in quality by storage duration according to the type of rye haylage
18	PP4-35	AAAP-2022-SUB-0741	Multi-residue methods for the detection of various pesticides, veterinary drugs, and mycotoxins in feed using liquid and gas chromatography coupled with mass spectrometry
19	PP4-37	AAAP-2022-SUB-0797	Monitoring of heavy metals(cadmium, lead, arsenic, and chromium) in animal feed and feed materials
20	PP4-39	AAAP-2022-SUB-0825	Alleviation of aluminum toxicity by silicon in alfalfa (Medicago sativa L.)

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP5 Animal Behavior and Welfare(ABW)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP5-1	AAAP-2022-SUB-0010	Effects of different illuminances on growth performance and welfare of broilers
2	PP5-3	AAAP-2022-SUB-0018	The provision of the sling belt reduces salivary cortisol levels and aggressive behaviour of the growing pigs immediately after transportation and regrouping
3	PP5-5	AAAP-2022-SUB-0076	Development of early detection and prediction system through abnormal behavior of sick birds: a broiler model
4	PP5-7	AAAP-2022-SUB-0232	The effect of the demand for oral behavior on salt block intake of sheep
5	PP5-9	AAAP-2022-SUB-0275	The effects of stocking density on the litter quality, foot pad dermatitis (FPD), hock burn, and Feather condition in broilers
6	PP5-11	AAAP-2022-SUB-0304	Effects of surgical castration and lidocaine and meloxicam treatment on growth, blood parameters, behaviors, and leukocyte gene expression in Korean cattle bulls
7	PP5-13	AAAP-2022-SUB-0477	Response Patterns of wild rodents to the Odour of re-introduced Asiatic black bear in South Korea
8	PP5-15	AAAP-2022-SUB-0597	Footpad dermatitis for meat type chickens in eastern region of Taiwan: on-slaughterhouse survey in Haulien County
9	PP5-17	AAAP-2022-SUB-0689	Effects of different natural and chemical ingredients as repellent on the number of feeding approach and feed intake of pigs
10	PP5-19	AAAP-2022-SUB-0759	Perceptions of citizens and farmers in livestock animals in South Korea
11	PP5-21	AAAP-2022-SUB-0897	The relation between dog aggression and stress status by analyzing hair cortisol



**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP6 Animal environment and management(EM)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP6-1	AAAP-2022-SUB-0074	Environmental effects on Animal production in Cameroon
2	PP6-3	AAAP-2022-SUB-0121	Understanding the effect of reducing the pH of bio-slurry during storage on CH <sub>4</sub> emissions
3	PP6-5	AAAP-2022-SUB-0145	A Study on the Concentration of Organic Dust by Manufacturing Process in TMR Plant
4	PP6-7	AAAP-2022-SUB-0150	Field Survey of the Characteristic of Odor Emitted from Livestock Waste Treatment Facility Combined Liquid Fertilizer and Composting Process
5	PP6-9	AAAP-2022-SUB-0211	Applicability of machine learning models for predicting body weight of pigs
6	PP6-11	AAAP-2022-SUB-0246	Analysis of performance expectations and corresponding implementation level effectivity of smart HACCP system in food manufacturing
7	PP6-13	AAAP-2022-SUB-0276	The Method for Quantifying the Odor Reduction of Bio-curtain
8	PP6-15	AAAP-2022-SUB-0312	Comparison of microbial agent effect for odor reduction of pig farms
9	PP6-17	AAAP-2022-SUB-0367	Effects of dietary supplementation of synbiotics on ammonia emission and fly presence in broiler chickens
10	PP6-19	AAAP-2022-SUB-0376	The effects of different storage systems on the CH <sub>4</sub> emissions of vermicompost
11	PP6-21	AAAP-2022-SUB-0392	The characteristics of reducing odor substances using microorganisms and air purification devices in an open pig farm
12	PP6-23	AAAP-2022-SUB-0469	Effects of Hydrothermal Pre-treatment on Methane Potential of Anaerobic Digestion Sludge Cake of Cattle Feedlot Manure and Pig Slurry
13	PP6-25	AAAP-2022-SUB-0522	Ammonia emission characteristics of sows in mechanically-ventilated pig house during the fall
14	PP6-27	AAAP-2022-SUB-0524	Identification of key factors for indoor air quality inside broiler house
15	PP6-29	AAAP-2022-SUB-0527	Possibility evaluation of distinguishing moisture content of poultry litter using thermal imaging camera
16	PP6-31	AAAP-2022-SUB-0530	Classification of the presence of fattening pig's vocalization using deep learning
17	PP6-33	AAAP-2022-SUB-0542	Evaluation of Working Environments for Police Dogs in Korea
18	PP6-35	AAAP-2022-SUB-0546	Comparison of Tier 1 Method of IPCC Guidelines to Calculate GHG from Livestock Sector
19	PP6-37	AAAP-2022-SUB-0548	Quality Control of Analyzer for Measurement of Atmospheric Ammonia

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP6 Animal environment and management(EM)**

No.	Abs ID	Submission Nick No.	Title (en)
20	PP6-39	AAAP-2022-SUB-0557	Analysis of cortisol hormone residue in commercial milk to estimate the stress level of lactating cattle
21	PP6-41	AAAP-2022-SUB-0579	Research on clustering farming risks tolerance condition of Taiwan poultry industry farmers
22	PP6-43	AAAP-2022-SUB-0641	Effect of reduced dietary crude protein on odor and gaseous emissions from swine manure: proof-of-the-concept
23	PP6-45	AAAP-2022-SUB-0665	A study on the dissolution of the fixed sludge formed in the liquid livestock manure storage tank using a copper sulfate oxidant
24	PP6-47	AAAP-2022-SUB-0698	Effect of a combination of renewable energy systems on the electricity consumption, housing environment and growth performance in weaning pigs
25	PP6-49	AAAP-2022-SUB-0739	Analysis of pig farm energy economics through solar power generation
26	PP6-51	AAAP-2022-SUB-0745	Effect of biochar addition on the mitigation of odor emissions from the bedded pack dairy barn
27	PP6-53	AAAP-2022-SUB-0768	A study of calf defecation posture tracking using LSTM prediction technology
28	PP6-55	AAAP-2022-SUB-0772	A Study on the Correlation between the NH <sub>3</sub> Concentration and Temperature, Humidity in the Pigsty Using Electrochemical sensor
29	PP6-57	AAAP-2022-SUB-0788	Changes of material properties of pig manure compost between aerobic and anaerobic reactor
30	PP6-59	AAAP-2022-SUB-0805	Effect of different metallic electrodes on concentration reduction of soluble ammonia and other nutrients from liquid manure sources by electrochemical processes.
31	PP6-61	AAAP-2022-SUB-0823	Effect of peat moss diet supplementation on NH <sub>3</sub> , H <sub>2</sub> S, and CH <sub>4</sub> emissions from sows
32	PP6-63	AAAP-2022-SUB-0836	Survey of the quality status of livestock manure Anaerobic-Digested liquid Fertilizer In South Korea
33	PP6-65	AAAP-2022-SUB-0843	Ammonia and hydrogen sulfide removal from centralized animal manure treatment plant using a air circulation wet scrubber
34	PP6-67	AAAP-2022-SUB-0855	A Study on the Quality Improvement through SS Reduction and Nitrogen-reinforced Livestock Manure Liquid Fertilizer
35	PP6-69	AAAP-2022-SUB-0896	Evaluation of greenhouse gas emissions based on nutritional value from meat source in Korea

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP7 Animal Reproduction & Physiology(ARP)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP7-1	AAAP-2022-SUB-0016	Method of improving the conception rate by using ovulation delay due to vaccination against foot-and-mouth disease in Korean cattle
2	PP7-3	AAAP-2022-SUB-0066	GRP78 play key roles related to male fertility via PI3K/PDK1/AKT pathway
3	PP7-5	AAAP-2022-SUB-0068	Male reproductive toxicity of Ritonavir: insight into mouse sperm capacitation
4	PP7-7	AAAP-2022-SUB-0127	Effects of mild FSH stimulation on bovine oocyte quality, in vitro embryo production and resistance to vitrification and warming by ovum pick-up in Hanwoo ( <i>Bos taurus coreanae</i> ) cows
5	PP7-9	AAAP-2022-SUB-0175	The Expression of Oxytocin Receptor in the horse brain
6	PP7-11	AAAP-2022-SUB-0191	Relationship between Anti-Müllerian hormone (AMH) and fertility in dairy cattle
7	PP7-13	AAAP-2022-SUB-0244	Colony Stimulating Factors and Their Receptors: Expression and Regulation in the Endometrium during the Estrous Cycle and Pregnancy in Pigs
8	PP7-15	AAAP-2022-SUB-0271	The corpus luteum quality and blood metabolites on recipient cows does not affect pregnancy rate after embryo transfer in Hanwoo cows
9	PP7-17	AAAP-2022-SUB-0323	Discovering copy number variation in the Korean Duroc using high-density SNP chip
10	PP7-19	AAAP-2022-SUB-0328	Effect of S-nitrosoglutathione reductase on porcine embryonic development
11	PP7-21	AAAP-2022-SUB-0338	Mitochondrial Dysfunction during In Vitro Maturation of Rotenone-exposed Porcine Oocytes.
12	PP7-23	AAAP-2022-SUB-0352	Dominant Proportion of Vaginal Epithelial Cells at the Completion of Hormonal Stimulation in Female Goats
13	PP7-25	AAAP-2022-SUB-0403	Wheat Phytase Potentially Enhanced The Viability of HT-29 Intestinal Epithelial Cells against UDP-Induced Cytotoxicity
14	PP7-27	AAAP-2022-SUB-0418	Optimizing Fixed Time Artificial Insemination Efficiency through Co-Synch Techniques in Water Buffaloes ( <i>Bubalus bubalis</i> )
15	PP7-29	AAAP-2022-SUB-0471	Heat stress altered the rumen fermentation characteristics, rumen microbial community composition, and blood parameters of mid-lactating Holstein dairy cows
16	PP7-31	AAAP-2022-SUB-0589	Changes of estrus in milk yield, milk composition, rumen environment, behavioral pattern, and physiological traits in Holstein dairy cows
17	PP7-33	AAAP-2022-SUB-0681	Effect of Lipid-rich bovine serum albumin (LR-BSA) on the development of in vitro fertilized bovine embryos

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP7 Animal Reproduction & Physiology(ARP)**

No.	Abs ID	Submission Nick No.	Title (en)
18	PP7-35	AAAP-2022-SUB-0700	Effects of oxidative stress on primordial follicle formation and follicle development in SOD1 deficient mice
19	PP7-37	AAAP-2022-SUB-0707	Effect of valine addition on chicken semen after freezing and thawing according to the type of freezing medium
20	PP7-39	AAAP-2022-SUB-0761	Bisphenol A induces inflammation in mouse skeletal muscle and inhibits myoblast differentiation
21	PP7-41	AAAP-2022-SUB-0775	Ancestral BPA exposure leads to dynamic transgenerational plasticity on mice reproduction
22	PP7-43	AAAP-2022-SUB-0778	Bisphenol-AF induces robust apoptosis in testicular germ cell line GC-1 (spg)
23	PP7-45	AAAP-2022-SUB-0785	Oxidative phosphorylation-related proteins of spermatozoa affect boar fertility
24	PP7-47	AAAP-2022-SUB-0800	How to use the ultrasonic cutter for the frozen semen evaluation
25	PP7-49	AAAP-2022-SUB-0887	Consistent and automatic detection for acrosome reaction of the micro-modified plasma membranes in boar sperm with deep learning-based approach

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP8 Animal Biotechnology(AB)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP8-1	AAAP-2022-SUB-0014	Season-dependent expression level of molecular markers for stallion germ cells
2	PP8-3	AAAP-2022-SUB-0041	Exploration of Pretentious Animal Genetic Resources of Pakistan
3	PP8-5	AAAP-2022-SUB-0085	Sensitivity and specificity determination of an in-house indirect enzyme-linked immunosorbent assay for African horse sickness antibody detection in horses
4	PP8-7	AAAP-2022-SUB-0087	Stability and detection limit of avian influenza virus on flinders technology associates card using conventional reverse transcription polymerase chain reaction
5	PP8-9	AAAP-2022-SUB-0134	Humoral immune response of in-house inactivated Newcastle disease vaccine using water in oil adjuvant and strategy for vaccination in broiler chicken
6	PP8-11	AAAP-2022-SUB-0228	Safety evaluation and anti-fatigue performance of goat extract in C57BL/6 mice
7	PP8-13	AAAP-2022-SUB-0240	No detrimental effect of repeated Ovum pick-up (OPU) on in vitro embryo production in Jersey cows
8	PP8-15	AAAP-2022-SUB-0284	Lysophosphatidic Acid Potentiates Nocodazole to Induce Chemical Enucleation of Porcine Oocytes
9	PP8-17	AAAP-2022-SUB-0357	Insect peptide CopA3 increases the cell viability that decreased by heat stress in porcine muscle satellite cells.
10	PP8-19	AAAP-2022-SUB-0383	Differential sensitivity to LPS influences the activation of TLR4 signaling pathway in THP-1 cells and PMA-differentiated THP-1 cells
11	PP8-21	AAAP-2022-SUB-0473	Ochratoxin A-mediated inflammation affects intestinal barrier function via TLRs/MyD88 signaling in small intestinal epithelial cells in pigs
12	PP8-23	AAAP-2022-SUB-0491	CRISPR/Cas9 mediated targeting of the cd163 gene in porcine embryos
13	PP8-25	AAAP-2022-SUB-0535	Isolation and characterization of chicken primordial germ cells derived from multi-embryonic gonads
14	PP8-27	AAAP-2022-SUB-0585	Effect of Sargassum horneri containing Fucoxanthin on laying hens
15	PP8-29	AAAP-2022-SUB-0609	Comparison of porcine skeletal muscle satellite cell number isolated by two different methods, grinding vs. hand mincing
16	PP8-31	AAAP-2022-SUB-0640	Analysis of regulatory pathways in muscle of myostatin knock-out chickens
17	PP8-33	AAAP-2022-SUB-0648	Development of rapid kit based on CRISPR-Cas13 system for BVD virus detection

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP8 Animal Biotechnology(AB)**

No.	Abs ID	Submission Nick No.	Title (en)
18	PP8-35	AAAP-2022-SUB-0706	Single cell RNA sequencing of bronchoalveolar lavage fluid (BALF) cells from pigs with the JA142 strain of porcine reproductive and respiratory syndrome virus (PRRSV)
19	PP8-37	AAAP-2022-SUB-0710	Oropharyngeal, Proximal colonic, and Vaginal Microbiomes of Korean Native Black Pig Gilts
20	PP8-39	AAAP-2022-SUB-0721	The effect of L-carnitine on proliferation and differentiation of bovine satellite cells isolated from Hanwoo longissimus dorsi and semimembranosus muscle
21	PP8-41	AAAP-2022-SUB-0726	Comprehensive transcriptome analyses of liver and muscle of the Ogye chickens
22	PP8-43	AAAP-2022-SUB-0735	Analyzing immune rejection in meniscus xenotransplantation using normal and triple knockout Jeju Native pigs
23	PP8-45	AAAP-2022-SUB-0742	Protective effects of functional feed additives on oxidative stress induced chicken intestinal epithelial cells
24	PP8-47	AAAP-2022-SUB-0818	Enhanced paracrine and migratory efficacy of canine adipose-derived mesenchymal stem cells (cA-MSCs) by IFN- $\gamma$ treatment
25	PP8-49	AAAP-2022-SUB-0831	Effects of ammonium sulfate and ammonium nitrate in sperm function
26	PP8-51	AAAP-2022-SUB-0850	Silymarin Complemented with an Herbal Medicine, Gunreyngtang Attenuates the Hepatic Lipid Accumulation Signaling Pathway Induced by the Oleic Acid
27	PP8-53	AAAP-2022-SUB-0853	Silymarin and Zedoariae Rhizoma synergistically inhibit protein kinase C signaling pathway responsible for apoptotic cell death induced by ethanol in human hepatocytes
28	PP8-55	AAAP-2022-SUB-0859	Effect of $\alpha$ -tocopherol on cadmium-induced oxidative stress in skeletal muscle of Sprague-Dawley rats
29	PP8-57	AAAP-2022-SUB-0893	The Microbiome-Transcriptome-Metabolome integration analysis in the piglet gut during the weaning transition

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP9 Animal Breeding & Genetics(ABG)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP9-1	AAAP-2022-SUB-0015	Telomere Length Genetics: Biomarker of Early Age Metabolic Activities and Oxidative Impact in Broiler Chicken (Gallus Gallus Domesticus)
2	PP9-3	AAAP-2022-SUB-0038	Association of MUC4 g.243A>G polymorphism with production performance of Landrace and Yorkshire pigs in the tropics: the case of Vietnam
3	PP9-5	AAAP-2022-SUB-0093	Detecting the roan factor of pigs using a simple molecular marker
4	PP9-7	AAAP-2022-SUB-0105	Using high-density array to analyze the genetic structure of Taiwan commercial pig populations
5	PP9-9	AAAP-2022-SUB-0160	Development of the new synthetic Korean native commercial chicken
6	PP9-11	AAAP-2022-SUB-0163	Analysis of telomere content and immune-related gene expression levels according to age in Korean native chickens
7	PP9-13	AAAP-2022-SUB-0170	Estimation of combining ability of production traits from diallel crosses of Korean native chickens to develop a new synthetic layer
8	PP9-15	AAAP-2022-SUB-0212	Application of deep learning with bivariate models for genomic prediction of sow lifetime productivity traits
9	PP9-17	AAAP-2022-SUB-0215	GWAS of total 54 carcass traits in the commercial crossbred pig population with breed partitioning
10	PP9-19	AAAP-2022-SUB-0222	Genetic Evaluation for Linear Type Traits in Korea Holstein Cattle
11	PP9-21	AAAP-2022-SUB-0224	Estimation of Genomic Prediction Accuracies for Milk Somatic Cell Score in Korean Holstein dairy cattle
12	PP9-23	AAAP-2022-SUB-0226	Study on Factors Affecting Calving Ease Trait in Korean Holstein Cattle
13	PP9-25	AAAP-2022-SUB-0229	Genetic correlation estimates of carcass traits measured at 24 and 30 months of age in national genetic evaluation system of Hanwoo (Korean beef cattle)
14	PP9-27	AAAP-2022-SUB-0251	Determination of single nucleotide polymorphisms in candidate genes known to relate with reproductive traits in Vietnamese chicken
15	PP9-29	AAAP-2022-SUB-0262	Estimation of genetic parameters for carcass traits of steers and cows in the commercial farm of Hanwoo cattle
16	PP9-31	AAAP-2022-SUB-0265	Genetic evaluation of the carcass meat-price in the commercial farm of Hanwoo beef cattle using a single-step GBLUP approach
17	PP9-33	AAAP-2022-SUB-0280	Analysis of Growth Traits in Colored Korea Native Duck by Strains and sex
18	PP9-35	AAAP-2022-SUB-0331	Use of Agro-Meteorological Grid Square Data to estimate heat-tolerance heritabilities of Holstein cows in Japan

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP9 Animal Breeding & Genetics(ABG)**

No.	Abs ID	Submission Nick No.	Title (en)
19	PP9-37	AAAP-2022-SUB-0340	Livestock production in the phenomic era
20	PP9-39	AAAP-2022-SUB-0361	Monitoring and analysis of international issues on Animal Genetic Resources
21	PP9-41	AAAP-2022-SUB-0366	Mating strategies for controlling inbreeding level using genomic information in breeding program
22	PP9-43	AAAP-2022-SUB-0370	Relationship between genetic effects and growth performance in purebred and crossbred pigs
23	PP9-45	AAAP-2022-SUB-0394	Genome-wide association study on fatty acid composition in F2 crossbred chicken population
24	PP9-47	AAAP-2022-SUB-0399	Comparative transcriptome analysis of Korea native cattle(Hanwoo) from 10 and 26 month in two fat tissues reveals changes in fat composition with age
25	PP9-49	AAAP-2022-SUB-0419	Genetic diversity of 20 selected olfactory receptor genes of pigs using sequence-based typing
26	PP9-51	AAAP-2022-SUB-0436	Differentially expressed genes and their function under heat stress in blood of layer chicken
27	PP9-53	AAAP-2022-SUB-0448	Genetic characterization of Kyrgyz native horses using a high-density SNP chip
28	PP9-55	AAAP-2022-SUB-0453	Genomic partitioning of genetic variance using multi-OMICS data in Hanwoo breeding program
29	PP9-57	AAAP-2022-SUB-0470	The study of Differentially Methylated Region gene on digestive system tissue in Long-tailed chicken
30	PP9-59	AAAP-2022-SUB-0536	Genome-wide association study of egg production traits in a Ogye x White Leghron chicken F2 resource population
31	PP9-61	AAAP-2022-SUB-0595	Analysis Accuracy and Estimated Breeding Value using Pedigree and Genotype of the Korean beef(Hanwoo) Full-sibling group
32	PP9-63	AAAP-2022-SUB-0604	Analysis of chicken feather color phenotypes classified as k-means clustering
33	PP9-65	AAAP-2022-SUB-0639	Generation of ovalbumin-null chickens and ovalbumin deficient eggs using genome editing technology
34	PP9-67	AAAP-2022-SUB-0647	Single nucleotide polymorphism in the seed region of miRNA and its binding to a specific-site within the 3'UTR of GPAM in Korean Native cattle
35	PP9-69	AAAP-2022-SUB-0650	Analysis of Linkage Disequilibrium in Hanwoo cows
36	PP9-71	AAAP-2022-SUB-0656	The Polymorphisms of ANGPTL2 Gene Associated with Composition of Fatty Acid and Cholesterol in Sheep
37	PP9-73	AAAP-2022-SUB-0678	Elucidation of Breed-specific Variants of Native Pigs in Korea: Insights into Pig Breeds' Genomic Characteristics



**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP9 Animal Breeding & Genetics(ABG)**

No.	Abs ID	Submission Nick No.	Title (en)
38	PP9-75	AAAP-2022-SUB-0702	A study on the estimation of Linkage Disequilibrium using SNP of Korean beef(Hanwoo) in Jeollabuk-do
39	PP9-77	AAAP-2022-SUB-0714	THE EFFECT OF BREED AND GROWTH HORMONE RECEPTOR GENOTYPE ON THE HEAT TOLERANCE COEFFICIENT IN DAIRY COW
40	PP9-79	AAAP-2022-SUB-0752	Estimation of prediction accuracy of GEBV for genomic markers and Hanwoo Carcass Traits
41	PP9-81	AAAP-2022-SUB-0780	Genome-wide association study reveals that chromosome Z and 20 account for a substantial proportion of phenotypic variance of the skin color trait in a Ogye x White Leghorn F2 chicken population
42	PP9-83	AAAP-2022-SUB-0789	Estimation of the accuracy of genomic predictions for reproductive traits in Korean Hanwoo female populations using high-density SNP chip
43	PP9-85	AAAP-2022-SUB-0803	Comparison of genomic prediction accuracy for carcass traits by slaughtered at 24- and 30- months in Hanwoo
44	PP9-87	AAAP-2022-SUB-0809	Estimation of genetic parameters and correlation between genomic breeding values and carcass traits in Hanwoo steers
45	PP9-89	AAAP-2022-SUB-0812	Estimation of genetic parameters and correlation between reproductive and carcass traits in Hanwoo cows
46	PP9-91	AAAP-2022-SUB-0815	Genetic composition of Jeju Black commercial individuals and the reciprocal effects of carcass quality traits on GEBV evaluation in commercial Jeju Black cattle
47	PP9-93	AAAP-2022-SUB-0819	Development of an automated genomic ability evaluation system based on genomic information on Hanwoo carcass traits.
48	PP9-95	AAAP-2022-SUB-0822	The new combination of MS markers for parentage and identity testing of Hanwoo
49	PP9-97	AAAP-2022-SUB-0844	Comparison of SNP variation and extent of linkage disequilibrium in Holstein and Jersey cattle populations in Korea
50	PP9-99	AAAP-2022-SUB-0852	MCW0312 Microsatellite Variability in Indonesian Native Chickens

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP10 Animal Health(AH)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP10-1	AAAP-2022-SUB-0070	Analysis of inflammatory markers in blood related with the occurrence of subcutaneous abscesses in goats
2	PP10-3	AAAP-2022-SUB-0089	Evaluation of efficacy of FeverNil as vaccine stress-relieving agent to reduce the adverse effects of FMD vaccination in pig
3	PP10-5	AAAP-2022-SUB-0125	African swine fever virus tropism in experimentally infected pigs
4	PP10-7	AAAP-2022-SUB-0139	Dynamics of major acute-phase protein in pigs experimentally infected with African swine fever virus
5	PP10-9	AAAP-2022-SUB-0236	A survey on the relationship between tail length and formation of amputation neuromas at pig
6	PP10-11	AAAP-2022-SUB-0261	Analysis of major disease antibody change for 7th Korean Native Chickens in Poultry Research Institute
7	PP10-13	AAAP-2022-SUB-0404	Subsistence of African swine fever virus and viral antibodies in survivor pigs by natural infection
8	PP10-15	AAAP-2022-SUB-0438	Development of Loop-Mediated Isothermal Amplification (LAMP) assay-based test kit for the detection/screening of Caprine Arthritis Encephalitis Virus (CAEV)
9	PP10-17	AAAP-2022-SUB-0481	Broad targeting of C-type lectin receptors and TLR3 by a cationic adjuvant formulation (CAF09) combined with pustulan in chicken subunit vaccines may support cell mediated immunity
10	PP10-19	AAAP-2022-SUB-0519	Dynamic changes of Metabolome and Immunity in jersey steers under heat stress
11	PP10-21	AAAP-2022-SUB-0586	A Weissella paramesenteroides Mastitis Outbreak in a Smallholder Dairy Farm with Long-term high bulk Somatic cell count: a Case Report.
12	PP10-23	AAAP-2022-SUB-0627	The effect of poultry feeding on heat stress with Prinsepia uniflora
13	PP10-25	AAAP-2022-SUB-0802	Evaluation of the safety and protective effect for kidney cell using five medicinal plants

**Poster presentation (PP)**

August 25 (Thu) 13:00 – 14:20

**PP11 Animal Microbiology(AM)**

No.	Abs ID	Submission Nick No.	Title (en)
1	PP11-1	AAAP-2022-SUB-0069	The prevalence of causative agents of calf diarrhea in Korean native calves
2	PP11-3	AAAP-2022-SUB-0077	Efficient washing protocol for animal Eimeria collected from feces
3	PP11-5	AAAP-2022-SUB-0168	Animal Gut Microbiome Bank (AGMB)
4	PP11-7	AAAP-2022-SUB-0192	Effects of probiotic supplementation on growth performance and fecal microbiota in heat-stressed broilers
5	PP11-9	AAAP-2022-SUB-0272	Genome sequencing of <i>Pediococcus acidilactici</i> BB2-4M isolated from cattle faeces
6	PP11-11	AAAP-2022-SUB-0325	Genome sequencing of <i>Pediococcus acidilactici</i> BB2-4M isolated from cattle faeces
7	PP11-13	AAAP-2022-SUB-0388	A study on relationship between microbiota of newborn calves, their mothers and colostrum
8	PP11-15	AAAP-2022-SUB-0413	Genome-wide identification and functional characterization of bat cathelicidins
9	PP11-17	AAAP-2022-SUB-0425	<i>Streptococcus ruminicola</i> sp. nov., new species of the <i>Streptococcus bovis/equinus</i> complex (SBSEC) isolated from Korean domestic ruminants
10	PP11-19	AAAP-2022-SUB-0455	The field test in a pig farm by systemic probiotics application
11	PP11-21	AAAP-2022-SUB-0457	Characterization of rumen-originated membrane vesicles and functionality evaluation using <i>C. elegans</i> animal model
12	PP11-23	AAAP-2022-SUB-0462	Dietary postbiotic heat-killed lactobacilli modulates on body weight associated with gut microbiota in a pig model
13	PP11-25	AAAP-2022-SUB-0466	Integrated Biobank for Agriculture, Food and Livestock Microbiome: Effective culturomics approach to explore the gut microbiota of domestic and companion animals
14	PP11-27	AAAP-2022-SUB-0529	Development of health functional microbial products for dogs using dog-derived probiotic strains
15	PP11-29	AAAP-2022-SUB-0540	DL-indole-3-lactic acid alleviates DSS-induced colitis in mice through inflammatory cytokines TNF- $\alpha$ and IFN- $\gamma$
16	PP11-31	AAAP-2022-SUB-0608	The effects of a dietary supplement with barley sprout on the gut microbiome in dog
17	PP11-33	AAAP-2022-SUB-0719	Multi-probiotic <i>Lactobacillus</i> supplementation improves liver function and reduces cholesterol levels in Jeju native pigs
18	PP11-35	AAAP-2022-SUB-0808	Effects of litter application on growth performance and cecal microbiota in broilers

**SC1 Student competition-1 (Animal production division)**

August 26 (Fri) 08:30 – 10:10

Chair. Minseok Kim (Chonnam National University, Korea)

Changsu Kong (Kyoungpook National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	SC1-1	AAAP-2022-SUB-0864	Roxanne De Gulabarrion	Order of Limiting Amino Acids in Broilers Fed with Low Crude Protein Diets
2	SC1-2	AAAP-2022-SUB-0009	Srinual Orranee	Assessment of the efficacy of red yeast in counteracting the changes induced by mycotoxins contaminated diet on carcass characteristic and pathological changes in hepatocytes of broiler chickens
3	SC1-3	AAAP-2022-SUB-0247	Mitsuishi Hiroki	A farm-scale assessment of $\beta$ -carotene variation and potency on reproductive performance in Japanese Black cows
4	SC1-4	AAAP-2022-SUB-0234	Shambhvi Shambhvi	Exploring the potential of trace minerals in the field of animal nutrition: A case study of Ni in ruminants
5	SC1-5	AAAP-2022-SUB-0195	KUMAR ASHISH	Development and implementation of comprehensive framework for quality assessment of livestock products: The case of Indian milk

**SC2 Student competition-2 (Animal biotechnology division)**

August 26 (Fri) 08:30 – 10:10

Chair. Myunghoo Kim (Pusan National University, Korea)

Younghoon Kim (Seoul National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	SC2-1	AAAP-2022-SUB-0497	Cho Hyunjin	Effects of forage-to-concentrate ratio on blood metabolite, reproductive performance, and pregnancy rate in Hanwoo heifers
2	SC2-2	AAAP-2022-SUB-0213	Jaisue Jirapat	Effect of Continual Intrauterine Infusion of Lipopolysaccharide on Mastitis in Goats
3	SC2-3	AAAP-2022-SUB-0544	soyeon kim	Position of expression of transcription factors in early development of porcines oocytes through Parthenogenetic experiment
4	SC2-4	AAAP-2022-SUB-0148	Lee Dayoung	Study on the replacement of fetal bovine serum
5	SC2-5	AAAP-2022-SUB-0420	LIN CHIH-YU	Study of Pin-Pu black pigs and crossbred commercial pigs in Taiwan

**SC3 Student competition-3 (Animal production division)**

August 26 (Fri) 10:30 – 12:10

Chair. Sang-kee Kang (Seoul National University, Korea)  
Jung Min Heo (Chungnam National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	SC3-1	AAAP-2022-SUB-0078	Chang Ti-Chun	Effects of high voltage electrostatic field on the freshness of pork during refrigerate storage
2	SC3-2	AAAP-2022-SUB-0489	Kim JiYung	Effects of fall dormancy, cutting frequency, and K application rate on dry matter yield of alfalfa
3	SC3-3	AAAP-2022-SUB-0525	Park Geunwoo	The importance of Hanwoo industry in South Korea with comparing greenhouse gas emissions with nutritional assessments
4	SC3-4	AAAP-2022-SUB-0156	Deb Nibas Chandra	Impact of the environmental parameters on the body temperature of pigs using machine learning models
5	SC3-5	AAAP-2022-SUB-0786	Lee Taejun	Identification of Hanwoo and Holstein cattle by muzzle pattern using deep-learning algorithm

**SC4 Student competition-4 (Animal biotechnology division)**

August 26 (Fri) 10:30 – 12:10

Chair. Eunbae Kim (Kangwon National University, Korea)  
Minjung Yoon (Kyoungpook National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	SC4-1	AAAP-2022-SUB-0103	Nagai Rintaro	Genomic dissection of repeatability considering additive and non-additive genetic effects for semen production traits in beef and dairy bulls
2	SC4-2	AAAP-2022-SUB-0712	Tsai Ching-Wen	Application of probiotics pet food in preventing/ameliorating chronic kidney disease (CKD) in feline and investigating its possible mechanism
3	SC4-3	AAAP-2022-SUB-0488	Joo Sang Seok	Porcine Intestinal Organoid Models to Understand the Regulation of Gut Environment
4	SC4-4	AAAP-2022-SUB-0832	Yeh Ting-Chen	The application of Lactococcus lactis subsp. cremoris and Lactobacillus paracasei subsp. paracasei in canine atopic dermatitis (CAD)
5	SC4-5	AAAP-2022-SUB-0626	Park Jongbin	Effects of supplementation methods of probiotic Enterococcus faecium on broilers gut and nasal microbiota

**YC1 Young scientist competition-2 (Animal biotechnology division)**

August 26 (Fri) 08:30 – 10:10

Chair. Jun-Mo Kim (Chung-Ang University, Korea)  
Youngsok Choi (Konkuk University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	YC1-1	AAAP-2022-SUB-0496	Yoo Inkyu	Expression and Function of CD40-CD40 ligand at the Maternal-Conceptus Interface in Pigs
2	YC1-2	AAAP-2022-SUB-0324	Zhou Dongjie	YME1L1 is required for mitochondrial function during early embryonic development in pigs
3	YC1-3	AAAP-2022-SUB-0023	Hong Yeojin	Exosomes from highly pathogenic avian influenza virus H5N1-infected chickens stimulate antiviral immune responses of chicken immune cells
4	YC1-4	AAAP-2022-SUB-0575	Kuo Hsiao Yun	Effects of Lactobacillus rhamnosus supplementation on hot season growth and intestinal performances of broilers

**YC2 Young scientist competition-1 (Animal production division)**

August 26 (Fri) 08:30 – 10:10

Chair. Beob Gyun Kim (Konkuk University, Korea)  
Tan Sol Park (Chung-Ang University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	YC2-1	AAAP-2022-SUB-0442	Lumbo Noel	Ulva lactuca powder can replace trace mineral supplementation in broilers
2	YC2-2	AAAP-2022-SUB-0050	An Su Hyun	Effect of L-methionine and DL-methionine on the growth performance in broiler chickens
3	YC2-3	AAAP-2022-SUB-0377	MAMUAD LOVELIA	A robust meta-analysis describes nitrogenous compounds' effectiveness in decreasing CH <sub>4</sub> production while increasing the VFA concentration in probiotic supplementation
4	YC2-4	AAAP-2022-SUB-0172	Chang I-Heng	Utility of fermentation products on Formosan sambar deer
5	YC2-5	AAAP-2022-SUB-0839	Shin Dong-Jin	Process development for chicken meat emulsion sausage with plant oil and elucidation of its mechanism on emulsion stability

**YC3 Young scientist competition-3 (Animal biotechnology division)**

August 26 (Fri) 10:30 – 12:10

Chair. Seung Hwan Lee (Chungnam National University, Korea)  
Ki-Duk Song (Jeonbuk National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	YC3-1	AAAP-2022-SUB-0032	Hassan Basri Basripuzi Nurul Hayyan	Natural infection of multiple haemoparasite species and place of animals' origin affect the milk production of Mafriwal cows
2	YC3-2	AAAP-2022-SUB-0025	POATY DITENGOU Junior Isaac Celestin	Are heat-killed probiotics more effective than live ones on colon length shortness, disease activity index, and the histological score of an inflammatory bowel disease-induced murine model? : A meta-analysis
3	YC3-3	AAAP-2022-SUB-0091	Vasquez Robie	Limosilactobacillus mucosae LM1 altered gut microbiome structure and increased SCFA in growing pigs

**YC4 Young scientist competition-3 (Animal production division)**

August 26 (Fri) 10:30 – 12:10

Chair. Ja kyeom Seo (Pusan National University, Korea)  
Kyu-Hyun Park (Kangwon National University, Korea)

No.	Abs ID	Submission Nick No.	Name	Title (en)
1	YC4-1	AAAP-2022-SUB-0026	Kim Moonju	The impact of abnormal scenarios affecting production of whole crop maize in Korea
2	YC4-2	AAAP-2022-SUB-0326	Maylem Excel Rio	HSP70 mRNA abundance as thermotolerance indicator in water buffaloes and its correlation to semen quality and milk production
3	YC4-3	AAAP-2022-SUB-0784	JANG SEYOUNG	A study on the application of the animal welfare assessment protocol to Korean native cattle(Hanwoo) in Korea
4	YC4-4	AAAP-2022-SUB-0289	Dominguez Jorge Michael	ARE MALE LAYER CHICKENS PROFITABLE TO BE PRODUCED UNDER FREE-RANGED PRODUCTION SYSTEM? GROWTH PERFORMANCE, CARCASS TRAITS, AND DIET ECONOMICS
5	YC4-5	AAAP-2022-SUB-0118	Alzahra Windi	Comparing N2O and CH4 emissions from different dairy cattle manure processing