

2025

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韓國畜産學會 國際學術發表會

2025 Annual International Conference of KSAST

“정밀 축산 2.0: 동물생명공학과 디지털 혁신의 융합”

Precision Livestock Farming 2.0:
Integration of Animal Biotechnology and
Digital Innovation

대구컨벤션센터 (대구 EXCO)

2025년 6월 25일(수)~27일(금)

- 주 최 : (사)한국축산학회
- 공동주관 : (사)한국축산학회, 국립축산과학원
- 후원기관 : 한국과학기술단체총연합회, 대구광역시, 대구 EXCO
- 후원업체 : (주)카길애그리퓨리나, (주)이지홀딩스, (주)우성사료, (주)팜스코, CTCBIO, 김유용 교수, (주)선진, 우리와(주), 일루미나코리아, 농협경제지주, 달사랑연구회, (주)솔로몬, (주)우진B&G, 중앙축산사료(주), (주)진바이오텍, 한국반추미생물연구회, ACC, BASF, BRD, CJ Feed&Care(주), 대한사료(주), (주)다원케미칼, (주)도드람양돈서비스, (주)에이피엠엔지니어링, 한우자조금관리위원회, (주)솔톤바이오캠

(사) 한국 축 산 학 회

Korean Society of Animal Science and Technology

인사말씀

안녕하십니까? 한국축산학회 회장 이준현입니다.

2025년 한국축산학회 종합심포지엄 및 학술발표회에 오신 여러분들을 환영합니다. 여러분의 많은 관심과 참여로 이번 축산학회는 대구 엑스코(EXCO)에서 여러분들을 맞이합니다.



이번 학술발표회의 주제는 “정밀 축산 2.0: 동물생명공학과 디지털 혁신의 융합”입니다. 최근 대두되고 있는 동물생명공학과 디지털 혁신의 접목에 대하여 국외 연사님들을 포함한 국내 유명 연사님들이 최근 연구 결과를 발표하고 토론을 진행할 예정입니다. 또한 환경을 포함하여 지속적으로 축산에서 대두되고 있는 문제들과 이를 극복하여 가축의 생산성을 높이는 다양한 기술들이 이번 학술발표회에 포함되어 있습니다. 본 종합심포지엄 및 학술발표회를 통하여 학문 후속 세대의 양성은 물론 연구계와 산업계의 교류를 통하여 저희 축산분야가 더욱 성장할 수 있는 계기가 되었으면 합니다.

마지막으로 학술대회에 적극적으로 참여해주신 학회 회원님들과 이사님, 그리고 학회 실무진 여러분께 감사드립니다. 또한 전폭적인 지원과 후원으로 더 풍성한 학회를 위해 힘써주신 이지홀딩스, (주)카길애그리퓨리나, (주)우성사료 관계

자 분들과 국립축산과학원 임기순 원장님 등 여러분들께 감사의 말씀을 드립니다.

Greetings, and welcome to the 2025 Symposium and Annual Meeting of the Korean Society of Animal Science and Technology (KSAST). We are pleased to host this year's meeting at EXCO in Daegu, a state-of-the-art venue for academic exchange.

The theme of this KSAST Annual Meeting is “Precision Livestock Farming 2.0: Integration of Animal Biotechnology and Digital Innovation”. Distinguished speakers from Korea and abroad will present and discuss recent research on the convergence of animal biotechnology and digital technologies. The program also addresses pressing challenges in livestock production, including environmental issues, and highlights innovative technologies aimed at enhancing livestock productivity.

We hope this symposium and meeting will serve as a valuable platform for fostering the next generation of scholars and promoting collaboration between academia and industry, thereby advancing the field of animal science.

Finally, we sincerely thank all KSAST members, board directors, and staff for their dedication and contributions to this event. Special thanks also go to industry partners for their generous support, especially major sponsors such as EASY holdings, Cargill, Woosung, and Dr. Im Gi-Sun, Director General of the National Institute of Animal Science, which has helped make this meeting a great success.

2025년 6월
(사)한국축산학회 회장
이 준 현

환영사

안녕하십니까. 국립축산과학원장 임기순입니다.

1956년 창립 이래 우리나라 축산업의 성장과 발전을 함께 이끌어온 한국축산학회의 2025년 학술발표회 개최를 진심으로 축하드립니다. 아울러 이 뜻깊은 자리를 마련해주신 이준현 회장님을 비롯한 학회 임원진과 관계자 여러분께도 감사의 인사를 전합니다.



우리나라 축산업은 현재 농업의 중추적 역할을 담당하고 있습니다. 2024년 기준(농촌경제연구소) 축산업 생산액은 약 23조 9천억 원으로, 전체 농업생산액의 39.7%를 차지하며 여전히 높은 비중을 유지하고 있습니다.

하지만 이러한 외형적 성장 이면에는 여러 도전과제가 놓여 있습니다. 기후변화 대응과 탄소중립 실현, 가축질병의 상시화, 시장 개방 확대, 동물복지 강화, 농촌 고령화 등 복합적 현안들이 축산업 전반에 영향을 미치고 있습니다. 이제는 ‘얼마나 많이 생산하느냐’보다, ‘어떻게 지속 가능하게 생산할 것인가’가 더욱 중요한 시대가 되었습니다.

이러한 시점에서 이번 학술발표회의 주제인 「정밀 축산 2.0: 동물생명공학과 디지털 혁신의 융합」은 매우 시의적절하며, 축산업의 새로운 전환점을 모색하는 중요한 계기가 될 것입니다.

이에 발맞춰 국립축산과학원은 디지털 기술과 생명과학 기반의 정밀 축산 기술 개발에 집중하고 있습니다. 최근에는 생체 내 유전자 기능 검증이 가능한 유전자가위 발현 돼지를 개발하여, 생명과학 및 의약 분야 연구에 기여할 수 있는 새로운 실험 모델을 제시했습니다.

또한, 인공지능 기반 돼지 행동 및 발성음 모니터링 기술, AI 활용 돼지 임신 판정 기술을 세계 최초로 개발했으며, 이는 가축의 복지 증진과 사양관리 효율화에 중요한 진전을 의미합니다.

AI 기술을 활용한 비산란계 및 과산계 케이지 선별 시스템, 국산 로봇착유기의 기능 개선 및 현장 보급 확대 역시 정밀 축산 실현의 또 다른 사례로, 축산업 현장의 노동력 절감과 생산성 향상에 크게 기여하고 있습니다.

최근에는 메탄저감 소재 발굴 연구에 컴퓨터 시뮬레이션을 활용했습니다. 주로 의학 분야에서 신약개발 등에 활용되던 방식으로, 이번에 수천 종의 메탄 저감효과가 있는 물질을 모의 실험했고 동물실험 없이 가장 가능성 높은 소재를 선별하고 효능을 검증한 바 있습니다.

이처럼 연구기관과 현장이 유기적으로 연결된 기술 개발은 지속가능한 축산을 이루는 핵심 토대입니다. 이를 실현하기 위해서는 학계, 산업계, 정책기관은 물론, 축산농가와의 긴밀한 공감과 협력이 반드시 필요하며, 그 중심에서 한국축산학회 여러분의 역할이 더욱 중요해지고 있습니다.

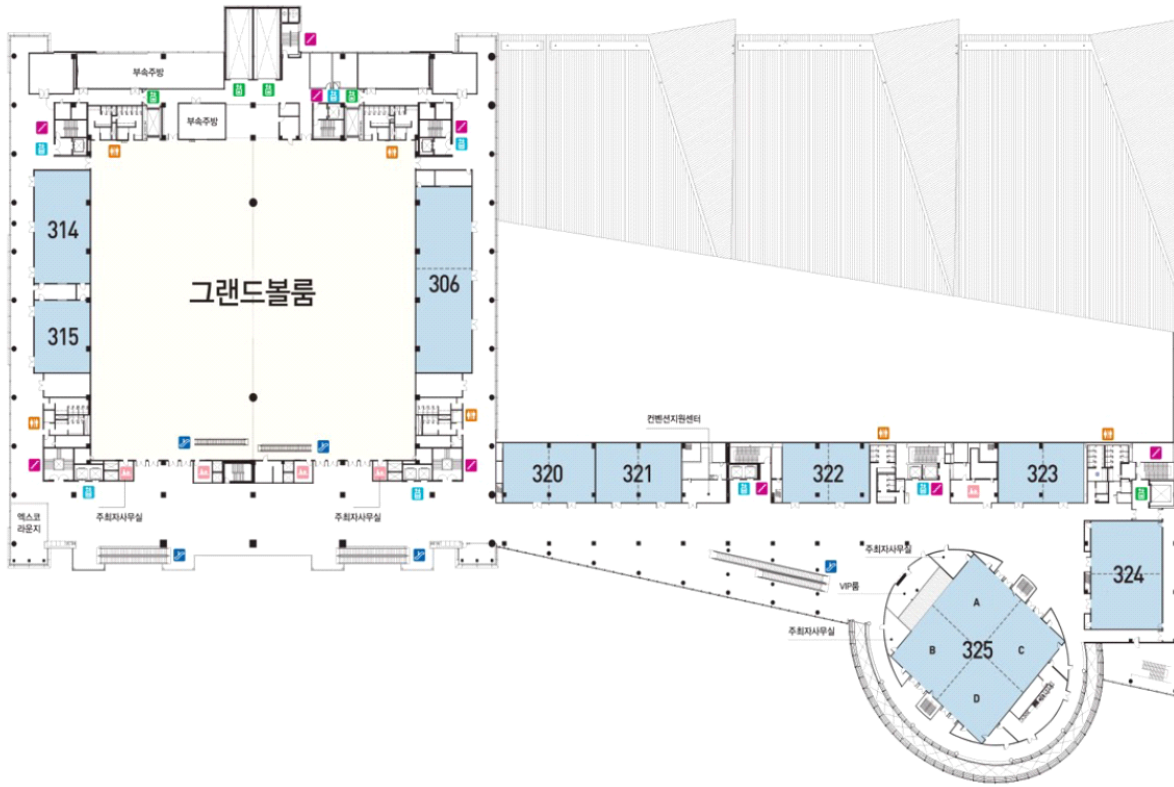
이번 학술발표회를 통해 경쟁력 있는 연구성과가 활발히 공유되고, 지속가능한 축산의 미래를 위한 다양한 대안과 실천 방안들이 논의되길 기대합니다.

발표를 준비해주신 모든 연구자 여러분의 노고에 진심으로 감사드리며, 여러분과 가정에 건강과 행복이 늘 함께하길 기원합니다. 감사합니다.

2025년 6월
국립축산과학원장
임 기 순

행사장 안내도

회의실 Conference Room



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학술대회 전체일정표

◆ 대구컨벤션센터 (대구 EXCO)

●● 2025년 6월 25일 (수)

시간	장소	대구컨벤션센터 (대구 EXCO)	
		그랜드 홀 B	
11:00~		등록 및 접수 (3층 로비)	
12:00~		포스터 부착 (그랜드 홀 A) * 주의: 포스터 부착 시간 엄수 (6/25, 12:00~17:00)	
13:00~13:30		개회사 및 환영사 : 이준헌 (한국축산학회장) 축 사 : 임기순 (국립축산과학원장)	
13:30~14:00		학회시상 및 학술대상 시상	
14:00~14:50		Plenary Lecture I 좌장: 김지혁 교수	
		서성원 교수 (충남대학교)	Advancing Precision Livestock Farming (PLF) : Paradigm Shift in Animal Science and Technology
15:00~15:40		학술대상 발표	
15:40~16:00		휴 식 (Coffee Break)	
15:30~19:00		축산과학원 심포지엄 (320호)	
16:00~18:30		카길 심포지엄 (321호)	
16:00~18:00		초청강연 (322호) - [이지홀딩스 후원] 좌장: 김은중 교수	
		박성권 교수 (세종대학교)	AI 및 초분광 영상을 활용한 고기 연도 예측 연구
		김은배 교수 (강원대학교)	동물 장내 미생물 유전체 해독에서 실제 응용을 위한 알고리즘 설계까지
19:00~21:00		축산 기업과의 소연 (장소: 211호)	

2025년 6월 26일 (목)

시간	장소	대구컨벤션센터 (대구 EXCO)					
		그랜드 홀 B					
08:00~	등록 및 접수(로비)						
09:00~09:50	Plenary Lecture II (그랜드 홀 B)						
	좌장: 황성수 박사						
	이기춘 교수 (오하이오 주립대학교)			Gene Editing in Poultry: Enhancing Productivity through Precision Breeding in the Present and Future			
10:00~12:00	연구회 세션						
	영양사료 연구회 1 (320A)	영양사료 연구회 2 (320B)	식육과학 연구회 (321A)	스마트축산 빅데이터 연구회 (321B)	반려동물 연구회 (322A)	마연구회 (322B)	
12:00~13:00	점심식사 & 정기총회 (그랜드 홀 B)						
	*학회에서 식권 지급 예정						
13:00~14:30	포스터 발표 및 우수포스터 심사(그랜드 홀 A)						
14:30~16:00	학생 구두발표 I						
	단위영양 I (320A) *우성사료 후원	단위영양 II (320B) *팜스코 후원	반추영양 I (321A) *카길 후원	번식, 생리 및 유전육종 I (321B)	축산물이용 및 가공 I (322A)	동물생명공학 (322B)	
	좌장 장재철 교수	좌장 김민주 교수	좌장 김민지 교수	좌장 권우성교수	좌장 신동민 교수	좌장 김대현 교수	
16:00~16:30	휴 식 (Coffee Break)						
16:30~18:00	학생 구두발표 II						
	단위영양 III (320A)	초지 및 환경 (320B)	반추영양 II (321A)	번식, 생리 및 유전육종 II (321B)	축산물이용 및 가공 II (322A)	동물복지, 행동 및 기타 (322B)	
	좌장 장재철 교수	좌장 이준희 교수	좌장 김원섭 교수	좌장 이준구 교수	좌장 신동민 교수	좌장 김기현 교수	

2025년 6월 27일 (금)

시간	장소	대구컨벤션센터 (대구 EXCO)	
		그랜드 홀 B	
08:00~		등록 및 접수(로비)	
09:00~09:50		Plenary Lecture III	
		좌장: 김명옥 교수	
	장구 교수 (서울대학교)	Livestock 4.0 (Precision Breeding with Genome Editing)	
10:00~11:40		신진과학자 세션 (320-322호)	
		영양사료 및 환경복지 (320호) - [이지홀딩스 후원]	
		좌장: 서자겸 교수	
	이준희 (경북대학교)	축산환경 개선을 위한 질소 흐름 추적 및 메탄 배출 저감 방안 연구	
	김원섭 (대구대학교)	생리적 마커 변화를 활용한 반추동물에 대한 고온 스트레스 반응 연구	
		축산물 가공이용 및 기타 (321호)	
		좌장: 박성권 교수	
	신동민 (계명대학교)	가공식품 소재로서의 오리 지방: 프랑크푸르터 및 마가린 제조와 닭고기 저장성 향상	
	이은주 (영남대학교)	배양육 생산을 위한 근육줄기세포 배양배지 및 첨가물 발굴	
		유전/육종/생명공학 (322호)	
		좌장: 권우성 교수	
	김동환 (부산대학교)	Researches using atRA and Genome-Edited Animals	
	김대현 (전남대학교)	Reproductive Performance by Foot-and-Mouth Disease (FMD) Vaccination in Hanwoo	
11:40~12:00		시상 및 폐회식 준비	
12:00~12:50		시상 및 폐회식 (그랜드 홀 B)	

[2025 Annual International Conference of KSAST]

Date: June 25 (Wed) - 27 (Fri), 2025

Place: Daegu Exhibition & Convention Center, Daegu

Theme: "Precision Livestock Farming 2.0: Integration of Animal Biotechnology and Digital Innovation"

●● Wednesday, June 25, 2025

Time	Place	Daegu Exhibition & Convention Center	
		Grand Hall B	
11:00~		Registration/Reception (Lobby, 3F)	
12:00~		Poster Setup (Grand hall A) * Posters must be set at 12:00 ~ 17:00	
13:00~13:30		Opening and Welcoming Address by Jun-heon Lee (President of KSAST) Congratulatory Address by Gi-sun Im (Director General of NIAS)	
13:30~14:00		Conference Awards and Academic Grand Prize Award Ceremony	
14:00~15:00		Plenary Lecture I Chair: Prof. Ji-hyeok Kim	
		Prof. Seong-won Seo (Chungnam National University)	Advancing Precision Livestock Farming (PLF) : Paradigm Shift in Animal Science and Technology
15:00~15:40		Academic Grand Prize Winner Presentation	
15:40~16:00		Coffee Break	
15:30~19:00		National Institute of Animal Science Symposium (Rm. 320)	
16:00~18:30		Cargill Symposium (Rm. 321)	
16:00~18:00		Invited Session Sponsored by Easy Holdings (Rm. 322) Chair: Prof. Eun Joong Kim	
		Prof. Sungkwon Park (Sejong University)	Integrating Visual Feature Analysis and Tenderness Prediction Using AI and Hyperspectral Imaging
		Prof. Eun Bae Kim (Kangwon National University)	From Decoding Animal Gut Microbiomes to Designing Algorithms for Real-World Applications
19:00~21:00		Welcome Reception with livestock companies (Rm. 211)	

●● Thursday, June 26, 2025

Place Time	Daegu Exhibition & Convention Center					
	Grand Hall B					
08:00~	Registration/Reception (Lobby, 3F)					
09:00~10:00	Plenary Lecture II Chair: Dr. Seongsoo Hwang					
	Prof. Kichoon Lee (Ohio State University)			Gene Editing in Poultry: Enhancing Productivity through Precision Breeding in the Present and Future		
10:00~12:00	Research Association Session					
	320A	320B	321A	321B	322A	322B
	Nutritional Feed Research Association I	Nutritional Feed Research Association II	Meet Science Research Association	Smart Livestock Big Data Research Association	Companion Animal Research Association	Horse Research Association
12:00~13:00	Break time & KSAST General meeting *Lunch ticket will be provided					
13:00~14:30	Poster Presentation : Poster Review (Grand Hall A)					
14:30~16:00	Students Oral Presentation I					
	320A	320B	321A	321B	322A	322B
	Monogastric Nutrition I *Sponsored by Woosung	Monogastric Nutrition II *Sponsored by Farmsco	Ruminant Nutrition I *Sponsored by Cargill	Reproduction, Physiology, and Genetic Breeding I	Utilization and Processing of Livestock Products I	Animal Biotechnology
16:00~16:30	Coffee Break					
16:30~18:00	Students Oral Presentation II					
	320A	320B	321A	321B	322A	322B
	Monogastric Nutrition III	Forage Science and Environment	Ruminant Nutrition II	Reproduction, Physiology, and Genetic Breeding II	Utilization and Processing of Livestock Products II	Animal Welfare, Behavior, and Others

●● Friday, June 27, 2025

Time	Place	
	Daegu Exhibition & Convention Center	
	Grand Hall B	
08:00~	Registration/Reception (Lobby, 3F)	
09:00~09:50	Plenary Lecture III Chair: Prof. Myoungok Kim	
	Prof. Goo Jang (Seoul National University)	Livestock 4.0 (Precision Breeding with Genome Editing)
10:00~11:40	Young Scientist Session (Rm. 320~322)	
	Animal Feeding, Management, and Welfare Session Sponsored by Easy Holdings (Rm. 320) Chair: Prof. Ja Kyeom Seo	
	Prof. Joonhee Lee (Kyungpook National University)	A Study on Tracing N Flows and Mitigating CH4 Emissions for Livestock Environmental Improvement
	Prof. Won Seob Kim (Daegu University)	Investigation of Heat stress Responses in Ruminants Through Changes in Physiological Markers
	Utilization and Processing of Livestock Products & Others (Rm. 321) Chair: Prof. Sungkwon Park	
	Prof. Dong-Min Shin (Keimyung University)	Duck Fat as a Processing Ingredient: Manufacturing of Frankfurters and Margarine, and Preservation of Chicken Meat
	Prof. Eun Ju Lee (Yeungnam University)	Development of Culture Media and Additives for Muscle Satellite Cells in Cultured Meat Production
	Animal Genetics/Breeding/Biotechnology (Rm. 322) Chair: Prof. Woo-Sung Kwon	
	Prof. Donghwan Kim (Pusan National University)	Researches using atRA and Genome-Edited Animals
	Prof. Dae Hyun Kim (Chonnam National University)	Reproductive Performance by Foot-and-Mouth Disease (FMD) Vaccination in Hanwoo
11:40~12:00	Break Time	
12:00~12:50	Presentation Awards & Closing Ceremony (Grand Hall B)	

Poster Presentation

June 26 (Thursday), 13:00~14:30 (Grand Hall A)

Section	Number	Poster No.
Monogastric Nutrition	60	PA25001 ~ PA25060
Forage Science and Environment	11	PB25001 ~ PB25011
Ruminant Nutrition	49	PC25001 ~ PC25049
Reproduction, Physiology, and Genetic Breeding	35	PD25001 ~ PD25035
Utilization and Processing of Livestock Products	9	PE25001 ~ PE25009
Animal Biotechnology	26	PF25001 ~ PF25026
Animal Welfare, Behavior, and Others	10	PG25001 ~ PG25010

Oral Presentation I

June 26 (Thursday), 14:30~16:00 (320A-322B)

Room	Section	Number	Poster No.
320A	Monogastric Nutrition I	6	OA25001 ~ OA25006
320B	Monogastric Nutrition II	6	OA25007 ~ OA25012
321A	Ruminant Nutrition I	6	OC25001 ~ OC25006
321B	Reproduction, Physiology, and Genetic Breeding I	4	OD25001 ~ OD25004
322A	Utilization and Processing of Livestock Products I	5	OE25001 ~ OE25005
322B	Animal Biotechnology	6	OF25001 ~ OF25006

Oral Presentation II

June 26 (Thursday), 16:30~18:00 (320A-322B)

Room	Section	Number	Poster No.
320A	Monogastric Nutrition III	6	OA25013 ~ OA25018
320B	Forage Science and Environment	4	OB25001 ~ OB25004
321A	Ruminant Nutrition II	6	OC25007 ~ OC25012
321B	Reproduction, Physiology, and Genetic Breeding II	4	OD25005 ~ OD25008
322A	Utilization and Processing of Livestock Products II	5	OE25006 ~ OE25010
322B	Animal Welfare, Behavior, and Others	7	OG25001 ~ OG25007

세부 일정 (6월 25일)

총 합 심 포 지 업

2025년 6월 25일(수) 11:00~18:40

종 합 심 포 지 업

2025년 6월 25일(수) 11:00~18:40

- 주 제: 정밀 축산 2.0: 동물생명공학과 디지털 혁신의 융합
Precision Livestock Farming 2.0: Integration of Animal Biotechnology and Digital Innovation

시간	장소	대구컨벤션센터 (대구 EXCO)	
		그랜드 홀 B	
11:00~		등록 및 접수 (3층 로비)	
12:00~		포스터 부착 (그랜드 홀 A) * 주의: 포스터 부착 시간 엄수 (6/25, 12:00~17:00)	
13:00~13:30		개회사 및 환영사 : 이준현 (한국축산학회장) 축 사 : 임기순 (국립축산과학원장)	
13:30~14:00		학회시상 및 학술대상 시상	
14:00~14:50		Plenary Lecture I 좌장: 김지혁 교수	
		서성원 교수 (충남대학교)	Advancing Precision Livestock Farming (PLF) : Paradigm Shift in Animal Science and Technology
15:00~15:40		학술대상 발표	
15:40~16:00		휴 식 (Coffee Break)	
15:30~19:00		축산과학원 심포지엄 (320호)	
16:00~18:30		카길 심포지엄 (321호)	
16:00~18:00		초청강연 (322호) - [이지홀딩스 후원] 좌장: 김은중 교수	
		박성권 교수 (세종대학교)	AI 및 초분광 영상을 활용한 고기 연도 예측 연구
		김은배 교수 (강원대학교)	동물 장내 미생물 유전체 해독에서 실제 응용을 위한 알고리즘 설계까지
19:00~21:00		축산 기업과의 소연 (장소: 211호)	

축산과학원 심포지엄 (320호)

2025년 6월 25일(수) 15:30~19:00

- 주 제 : 국내 축종별 생산비 및 환경부하 절감을 위한 정밀영양·사양 연구 및 정책

좌장 : 김창현 교수 (한경국립대학교)

15:30 ~ 15:50	이성대 연구관 (국립축산과학원)	등록
15:50 ~ 16:00		개회식
16:00 ~ 16:30	김소연 사무관 (농림축산식품부)	축산분야 탄소중립을 위한 주요 정책 방향
16:30 ~ 17:00	노상건 교수 (도호쿠대학교)	반추가축 정밀영양·사양 국내·외 연구 동향 및 사례
17:00 ~ 17:30	김진수 교수 (강원대학교)	사료비 절감을 위한 돼지 정밀영양·사양 연구 동향
17:30 ~ 18:00	강환구 연구관 (국립축산과학원)	AI기술 활용 가금 정밀영양·사양 연구 동향 및 사례
18:00 ~ 19:00	종합토론 (축산분야 생산비 및 환경부하 저감을 위한 필요 정책·연구 방안)	

카길 심포지엄 (321호)

2025년 6월 25일(수) 16:00~18:30

- 주 제 : Precision Nutrition and Digital Innovation to Unleash the Full Potential

사회 : 주원석 박사 (카길 기술연구소)

16:00 ~ 16:10	All	Registration and Application
16:10 ~ 16:20	대표이사 박종억	Welcome and Opening Remarks
16:20 ~ 16:40	기술연구소 주원석	Introduction of Cargill – Innovation and Application
16:40 ~ 17:10	Adam Wang, Cargill ANH China	Current Status of the Swine Industry in China & Disital Tools to Provide Critical and Unique Value
17:10 ~ 17:40	Prof. Joao Dorea, University of Wisconsin	Upcoming Disruptive Technologies Shaping the Dairy Industry
17:40 ~ 17:50	All	Coffee Break & Networking
17:50 ~ 18:20	Ines Carvalhido, Cargill ANH Technology Lead	REVEAL™ Layers – a First-Of-Its-Kind, Non-Invasive NIR Technology
18:20 ~ 18:30	All	Q&A

※ The contents will be conducted on-line or via a recorded version

※ The contents could be subject to change depending on circumstances

초청강연 (322호) - [이지홀딩스 후원]

2025년 6월 25일(수) 16:00~18:00

좌장 : 김은중 교수 (경북대학교)

16:00 ~ 17:00	박성권 교수 (세종대학교)	AI 및 초분광 영상을 활용한 고기 연도 예측 연구
17:00 ~ 18:00	김은배 교수 (강원대학교)	동물 장내 미생물 유전체 해독에서 실제 응용을 위한 알고리즘 설계까지

세부 일정 (6월 26일)

한국축산학회 산하 연구회 행사

2025년 6월 26일(목) 10:00~12:00

1. 영양사료연구회 1 (320A)

- 주 제 : 가축사료 섬유소의 역할

사회 : 김법균 교수 (건국대학교)

10:00~10:25	등 록	
10:25~10:30	개 회 / 회장인사 (김유용 회장)	
연 사 및 제 목		
10:30~11:00	최낙진 교수 (전북대학교)	반추가축의 복지사육시스템과 영양
11:00~11:30	이건일 교수 (한국방송통신대학교)	섬유소 급여를 통한 육성돈의 영양소 소화율 및 장건강 조절
11:30~12:00	김삼철 교수 (경상국립대학교)	섬유질 사료의 가치 증진을 위한 미생물 적용 기술
12:00~12:20	종합토론 및 폐회	

2. 영양사료연구회 2 (320B)

- 주 제 : 최신 사료분석기법

좌장 : 김병희 교수 (숙명여자대학교)

10:00~10:10	등 록	
10:10~10:15	개 회 / 회장인사 (김유용 회장)	
10:15~10:20	과장 인사 (조현정 과장, 국립농산물품질관리원 시험연구소 성분분석과)	
연 사 및 제 목		
10:20~10:40	김성환 교수 (단국대학교)	휴대용 형광장비를 활용한 옥수수 곶팡이 오염 검출 모델 개발 (연구용 시료 제조)
10:40~11:00	조형욱 박사 (한경국립대학교)	사료 중 비타민 (A, B ₆ , D ₂ , D ₃) 분석법 개선
11:00~11:20	박경진 책임연구원 (더케이분석센터)	ICP 분광분석법을 활용한 사료 중의 무기물 분석법 개발
11:20~11:40	김호진 교수 (경상국립대학교)	반려동물 사료 중 마비성 패류독소 분석법 개발
11:40~12:00	김기현 교수 (국립순천대학교)	사료표준분석법 효율화 방안 및 분류체계 개선 연구
12:00~12:20	종합토론 및 폐회	

3. 식육과학연구회 (321A)

- 주 제 : 한우 생산성 향상과 사육기간 단축

사회 : 조철훈 교수 (서울대학교)

10:00~10:15	등 록	
10:15~10:20	개 회 / 회장인사 / 안내말씀	
연 사 및 제 목		
10:20~11:00	김정수 사무관 (농림축산식품부)	한우산업 구조 및 종장기 개선 방안
11:00~11:15	장애라 교수 (강원대)	사육 개월령에 따른 한우육의 이화학적 및 맛 관련 특성 규명
11:15~11:30	황인호 교수 (전북대)	한우고기품질 무엇으로 조절할 것인가?
11:30~12:00	종합토론 및 폐회	

4. 스마트축산빅데이터연구회 (321B)

- 주 제 : 데이터기반 스마트축산의 도전과 미래

사회 : 김준모 교수 (중앙대학교)

10:00~10:15	등 록	
10:15~10:20	개 회 / 회장인사 (허재영 회장) / 안내말씀	
연 사 및 제 목		
10:20~10:50	이승훈 박사 (중앙대학교)	스마트축산 빅데이터 환류 비전
10:50~11:20	이도현 대표 (농업회사법인 성우)	스마트 파밍과 스마트 팜
11:20~11:50	이일석 대표 (돼지키움)	인공지능 기반 임신돈 정밀사육 자동화 시스템
11:50~12:00	종합토론 및 폐회	

5. 반려동물연구회 (322A)

- 주 제 : 반려견 건강관리를 위한 영양학적 접근

사회 : 박창우 박사 (㈜우리와)

10:00~10:15	등 록	
10:15~10:20	개 회 / 회장인사 / 안내말씀	
연 사 및 제 목		
10:20~10:50	도성호 (㈜우리와)	Nutritional Management of Chronic Enteropathy in Dogs
10:50~11:20	박성권 (세종대학교)	유용 미생물 및 한약재 발효를 활용한 반려견용 기능성 유제품 개발
11:20~11:50	이민영 (국립축산과학원)	반려견 생애주기별 단백질 공급원의 영양학적 이용가치 평가
11:50~12:00	종합토론 및 폐회	

6. 마연구회 (322B)

- 주 제 : 인마(人馬) 교감 치유 효과의 과학적 검증

사회 : 박정웅 박사 (전북대학교)

10:00~10:10	개 회 / 회장인사 / 안내말씀	
연 사 및 제 목		
좌장 : 경북대학교 윤민중 교수		
10:10~10:35	최재영 연구사 (국립축산과학원)	난지축산연구센터 말 연구 현황
10:35~11:00	손선주 교수 (청주대학교)	힐링승마 효과의 과학적 분석
11:00~11:25	박숙경 소장 (코융합심리치유연구소)	인간과 말의 소통을 통한 ‘말’ 심리치유 사례연구
11:25~11:50	최연주 대표 (말길 힐링 앤 리더십)	Exploring the Dynamics of Physiological and Environmental Factors for Horse Welfare
11:50~12:00	종합토론 및 폐회	

포스터발표회

2025년 6월 26일(목) 13:00~14:30 (그랜드홀 A)

분 야	편 수	포 스텍 NO.
단위영양	60	PA25001 ~ PA25060
초지 및 환경	11	PB25001 ~ PB25011
반추영양	49	PC25001 ~ PC25049
번식, 생리 및 유전육종	35	PD25001 ~ PD25035
축산물 이용 및 가공	9	PE25001 ~ PE25009
동물생명공학	26	PF25001 ~ PF25026
동물복지, 행동 및 기타	10	PG25001 ~ PG25010

구두발표회 I

2025년 6월 26일(목) 14:30~16:00 (320A-332B)

※ 발표자 1인당 10분 발표 / 5분 질의 및 응답

장 소	분 야	편 수	구두발표 NO.
320A	단위영양 I	6	OA25001 ~ OA25006
320B	단위영양 II	6	OA25007 ~ OA25012
321A	반추영양 I	6	OC25001 ~ OC25006
321B	번식, 생리 및 유전육종 I	4	OD25001 ~ OD25004
322A	축산물 이용 및 가공 I	5	OE25001 ~ OE25005
322B	동물생명공학	6	OF25001 ~ OF25006

구두 발표회 II

2025년 6월 26일(목) 16:30~18:00 (320A-332B)

※발표자 1인당 10분 발표 / 5분 질의 및 응답

장 소	분 야	편 수	구두발표 NO.
320A	단위영양 III	6	OA25013 ~ OA25018
320B	초지 및 환경	4	OB25001 ~ OB25004
321A	반추영양 II	6	OC25007 ~ OC25012
321B	번식, 생리 및 유전육종 II	4	OD25005 ~ OD25008
322A	축산물 이용 및 가공 II	5	OE25006 ~ OE25010
322B	동물복지, 행동 및 기타	7	OG25001 ~ OG25007

세부 일정 (6월 27일)

신진 과학자 특강

2025년 6월 27일(금) 10:00~11:40

1. 영양사료 및 환경복지 (320호)

좌장: 서자겸 교수		
시간	연사	제목
10:00~10:50	이준희 (경북대학교)	축산환경 개선을 위한 질소 흐름 추적 및 메탄 배출 저감 방안 연구
10:50~11:40	김원섭 (대구대학교)	생리적 마커 변화를 활용한 반추동물에 대한 고온 스트레스 반응 연구

2. 축산물 가공이용 및 기타 (321호)

좌장: 박성권 교수		
시간	연사	제목
10:00~10:50	신동민 (계명대학교)	가공식품 소재로서의 오리 지방: 프랑크푸르터 및 마가린 제조와 닭고기 저장성 향상
10:50~11:40	이은주 (영남대학교)	배양육 생산을 위한 근육줄기세포 배양배지 및 첨가물 발굴

3. 유전/육종/생명공학 (322호)

좌장: 권우성 교수		
시간	연사	제목
10:00~10:50	김동환 (부산대학교)	Researches using atRA and Genome-Edited Animals
10:50~11:40	김대현 (전남대학교)	Reproductive Performance by Foot-and-Mouth Disease (FMD) Vaccination in Hanwoo

발표논문시상식 및 폐회식

- ▶ 일 시 : 2025년 6월 27일(금) 12:00
- ▶ 장 소 : 그랜드 홀 B
- ▶ 시 상 : 이준헌 한국축산학회장
- ▶ 대 상 : 전 회원 및 수상자

※ 구두발표 및 포스터 우수 발표자는 폐회식에서 시상 예정입니다.

발표자 전원 참석하여 주시기 부탁드립니다.

(대리수상을 불가하여 수상자가 불참 시, 차 순위자에게 시상합니다)

구 두 발 표



제1발표분야 : 단위동물 영양 · 사양

- OA25001 Effects of nasal inoculation of *Klebsiella pneumoniae* on growth performance, behavior, bacterial colonization, and blood biochemistry in growing pigs
..... Md Sharifuzzaman, Hong-Seok Mun, Eddiemar B. Lagua, Young-Hwa Kim, Md Kamrul Hasan and Chul-Ju Yang
- OA25002 Effects of dietary supplementation of arginine on growth performance, meat quality, relative organ weight, liver characteristics, antioxidant capacity, stress biomarker, and intestinal barrier function in broiler chickens raised under multiple stress conditions
..... Yeong Bin Kim, Gyu Lim Yeom, Ha Neul Lee, Ju Yeong Park, Ji Won Shin, Geun Yong Park and Jong Hyuk Kim
- OA25003 Effects of dietary *Capsicum oleoresin* supplementation on growth performance, meat quality, blood lipid parameters, stress indicator, digestive enzyme activity, jejunal antioxidant capacity, and gut health in broiler chickens raised under heat stress
..... Geun Yong Park, Gyu Lim Yeom, Ha Neul Lee, Yeong Bin Kim, Ju Yeong Park, Ji Won Shin and Jong Hyuk Kim
- OA25004 The effect of high temperature moderation on the strength of the diet
..... Jae-Hyeok Lee, Seong-Min Koo, Se-Na Jo, Jae- Cheol Jang
- OA25005 Comparison of apparent and standardized ileal digestibility of amino acids in corn-soybean meal-based diets fed to laying hens at two different ages
..... Min Sung Kang and Dong Yong Kil
- OA25006 Protease supplementation enhances growth, gut health, and nutrient digestibility in broilers fed reduced-nutrient diets
..... Shan Randima Nawarathne, Myunghwan Yu, Elijah Ogola Oketch, Nuwan Chamara Chathuranga, Jeseok Lee, Haeun Park, Schyeok Oh, Hans Lee and Jung Min Heo
- OA25007 Amino acid digestibility and energy concentrations in cashew nuts and copra meal fed to pigs
..... Thi Kim Thi Pham, Yeojin An, Yoon Soo Song and Beob Gyun Kim
- OA25008 Prediction models for ileal digestibility of amino acids in soybean ingredients fed to pigs
..... Yoon Soo Song and Beob Gyun Kim
- OA25009 Potential modulation of broiler performance, nutrient digestibility, and gut morphology by supplemental monocomponent xylanase
..... Elijah Ogola Oketch, Myunghwan Yu, Shan Randima Nawarathne, Nuwan Chamara Chathuranga, Jeseok Lee, Haeun Park, Schyeok Oh, Hans Lee and Jung Min Heo

- OA25010 The effects of supplemental protease on amino acid digestibility and determination of energy values in corn-derived protein and palm kernel expellers fed to nursery pigs
..... Yeojin An, Yoon Soo Song, Jong Woong Kim and Beob Gyun Kim
- OA25011 Use of emulsifiers in improving feed efficiency for nutrient-reduced broiler diets
..... Sehyeok Oh, Myunghwan Yu, Elijah Ogola Oketch, Shan Randima Nawarathne, Nuwan Chaturanga, Jeseok Lee, Haeun Park, Hans Lee and Jung Min Heo
- OA25012 Meta-analysis of the optimal relationship of digestible total sulfur amino acid and crude protein levels in diets to minimize feed conversion ratio in broiler chickens
..... Hyun Woo Kim and Dong Yong Kil
- OA25013 Effects of nutrient density and protease supplementation on growth performance, digestibility, and intestinal morphology of broilers
..... Nuwan Chamara Chathuranga, Myunghwan Yu, Shan Randima Nawarathne, Elijah Ogola Oketch, Jeseok Lee, Haeun Park, Sehyeok Oh, Hans Lee and Jung Min Heo
- OA25014 이유전기 사료 내 조단백질 수준이 자돈의 생산성에 미치는 영향 규명
..... 김지옥, 장민혁, 박성현, 김유용
- OA25015 The effect of farrowing duration on gut microbiota composition and postural changes in primiparous sows
..... Jua Woo, Juho Lee, Cheolju Park, Minseok Kim and Jinhyeon Yun
- OA25016 Effects of dietary supplementation of gedi plant (*Abelmoschus manihot* L.) flower extract on growth performance, relative organ weight, liver characteristics, antioxidant capacity, stress indicators, jejunal morphology, and welfare parameters in broiler chickens
..... Gyu Lim Yeom, Ha Neul Lee, Yeong Bin Kim, Ju Yeong Park, Geun Yong Park, Ji Won Shin, Yang-Il Choi, JungSeok Choi and Jong Hyuk Kim
- OA25017 Growth performance of growing pigs at different dietary benzoic acid levels
..... Inho Cho, Okhwa Hwang and Changsu Kong
- OA25018 Improving maternal outcomes in hyperprolific sows through gut microbiota modulation using ferulic acid and probiotics and behavioural enrichment
..... Sarbani Biswas, Woohee Chung, Jua Woo, Cheolju Park, Minseok Kim and Jinhyeon Yun

제2발표분야 : 초지 및 환경

- OB25001 Effects of dietary electrolyte balance on urine and slurry pH, nitrogen balance, and manure odorous compounds in pigs
 Yoojin Koh, Siyoung Seo and Beob Gyun Kim
- OB25002 Impact of different rearing duration on methane and carbon dioxide emissions in Hanwoo cattle
 Janine I. Berdos, Seon-Ho Kim, A-Rang Son, Ye Pyae Naing, Kwang-Wook Park and Sang-Suk Lee
- OB25003 Silvopastoral system in REDD+ activities
 Eska Nugrahaeningtyas, Yogi Sidik Prasajo and Minkyung Song
- OB25004 가축 사료용 옥수수에서 분광 기반 분석을 위한 시료용 옥수수 제조를 위한 사전연구
 Doh Hoon Shin, Hyun Uk Cho, Ye In Kim, Ki Sung Lee, Jae Hak Yu, Mi Jung Kim, Seong Hwan Kim

제3발표분야 : 반추동물 영양·사양

- OC25001 Comparative metataxonomic analysis of total, viable, and active rumen microbial communities under methane-mitigated environments
..... Woohyung Lee, Geonwoo Kim and Tansol Park
- OC25002 Effects of different diet energy levels on growth performance and blood parameters in Korean native calves under heat stress
..... Eui-Beom Chung, Won-Seob Kim, Xue-Cheng Jin, Bo-Mi Kim, Jun-Hee Lee and Hong-Gu Lee
- OC25003 Effects of a photocatalytic and microcurrent-generating mineral mixture on in vitro rumen fermentation
..... Yu-Been Cho, Jun-Seo Kim, Dae-Hee Jang and Hong-Gu Lee
- OC25004 빅데이터를 활용한 낙농 농가 컨설팅 활용성과 분석
..... 고대화, 정세훈, 김진욱, 남기택
- OC25005 Effects of sampling conditions on methane measurement by CO₂ method and validation of methane mitigation effect of 3-nitrooxypropanol in Hanwoo steers
..... Jaesung Lee, Rajaraman Bharanidharan, Junseok Oh, Jinwoo Jeong, Junsung Kyung, Kamburawala Kankanamge Tharindu Namal Ranaweera, Seyun Im, Sang Yeob Kim, Luis Fernando Tamassia, Reto Zihlmann, Maik Kindermann, Kyoung Hoon Kim and Myunggi Baik
- OC25006 Differential effects of *Asparagopsis* types and inclusion levels on methane emissions and fermentation characteristics in an in vitro rumen model
..... Khanza S. Dhia, Michelle A. Miguel, A-Rang Son, Soen-Hoe Kim and Sang-Suk Lee
- OC25007 In-silico discovery and in-vitro validation of 5,7-dimethoxy-2H-chromen-2-one as a potent inhibitor of methyl-coenzyme M reductase for enteric methane mitigation
..... Kamburawala Kankanamge Tharindu Namal Ranaweera, Seyun Im, Jaesung Lee, Jinwoo Jeong, Junseok Oh, Junsung Kyung, Sangyeob Kim and Myunggi Baik
- OC25008 Comparative analysis of rumen microbiota and fermentation characteristics in Hanwoo steers with divergent methane emission phenotypes
..... Sungju Jung, Cheolju Park, Seunghyeun Moon, Min-Seok Kim, Jaeyong Song and Minseok Kim
- OC25009 Development of predictive models for estimating enteric methane emissions in lactating Holstein cows using methane measurement methods and physiological parameters under on-farm condition in Korea
..... Kyung-Hwan Oh, In-Pyo Hong, Yoon-Seok Lee, Sung-Dae Lee and Hong-Gu Lee

- OC25010 Validation of biosensors for monitoring feeding behavior in Hanwoo cows
 Andrian D. Ragandang, Hyunjin Cho and Seongwon Seo
- OC25011 Effect of heat treatment on nutrient composition, immunoglobulin G concentration, and
 microbial changes in Holstein cow colostrum
 Seokhoon Park, Gyeongjin Kim, Sohyeon Kim, Sihyeon Lee, Chang Seok Park, Chanwoo Park,
 Minjung Yoon, Junyoung Kim, Minseok Kim, Cheolju Park and Eun Joong Kim
- OC25012 Dietary soluble carbohydrates supplementation and heat stress in Holstein dairy cows:
 effect on rumen fermentation, blood metabolism, and milk characteristics
 Mozart Nuzul Aprilliza AM, Ye Pyae Naing, A-Rang Son, Soen-Ho Kim and Sang-Suk Lee

제4발표분야 : 번식, 생리 및 유전육종

- OD25001 Ras-related proteins (Rab) as functional biomarkers of male fertility: Insights from molecular regulation to predictive potential
..... Jeong-Won Bae, Jae-Hwan Jo, Claudine Uwamahoro, Seung-Ik Jang, Eun-Ju Jung, Woo-Jin Lee and Woo-Sung Kwon
- OD25002 Establishment of Breed Specific Spermatogonial Stem Cell Culture in Korean Native Chicken
..... Thirubasyini Songdan, Seung Je Woo, Yun Ji Shin and Jae Yong Han
- OD25003 The impact of dog-mediated activities on young adults: Dependence on intensive of activity and sex based on oxytocin and electroencephalography
..... Yujin Song, Youngwook Jung, Kayoung Yang, Kyongwon Yoo, Youngtae Heo and Minjung Yoon
- OD25004 Dog temperament is associated with salivary cortisol and serotonin concentrations
..... Youngwook Jung, Yujin Song, Kayoung Yang, Kyongwon Yoo, Youngtae Heo and Minjung Yoon
- OD25005 Effects of synbiotic supplementation following foot-and-mouth disease vaccination in Hanwoo (*Bos taurus coreanae*) cows
..... Jiyeon Han, Daejung Yu, Jisu Kim, Mirae Kim, Jong-il Jeong, Hyeonho Lee, Minji Seo and Daehyun Kim
- OD25006 Analysis of acute-phase immune response and reproductive performance following lumpy skin disease vaccination in Hanwoo cows
..... Jisu Kim, Changsik Choi, Woojae Choi, Jiyeon Han, Mirae Kim, Jongil Jeong, Hyeonho Lee, Minji Seo and Daehyun Kim
- OD25007 Analysis of physiological responses to heat stress following synbiotic supplementation in dairy cows
..... Mirae Kim, Gyeonglim Ryu, Jisu Kim, Jiyeon Han, Jeong Jongil, Lee Hyeonho, Minji Seo and Daehyun Kim
- OD25008 Influence of follicular dynamics on pregnancy rates in *Bos taurus coreanae*
..... Junsung Kim, Hyun A Song, Hyeongtea Jeon, Cheolwoo Kim, Gisung You, Sehyeon Park and Junkoo Yi

제5발표분야 : 축산물 이용 및 가공

- OE25001 Hanwoo Auction Price Forecasting by Incorporating Seasonal Information via Positional Embeddings
..... Kyuseok Yang, Seungwoo Lee, Taehyeong Kim
- OE25002 Comparison of broiler breast and thigh meat quality from conventional and animal welfare farms in Korea
..... Minjun Kim, Sol-hee Lee, Sanghun Park, Gyutae Park, Soyoung Jang, Beobmo Ku, Jiwoo Kang, Yang-il Choi, Jungseok Choi
- OE25003 Pungent plant compounds inhibit *Salmonella* T3SS-1 and intracellular invasion: Capsaicin, piperine, and sinigrin
..... Chang-Geun Lim, A Jin Lee, Min Jeong Kim, Su Hyeon Yang, Mi Seong Lee, Seung-Hee Baek and In-Sik Nam
- OE25004 Classification of pork sensory attributes using combination of color space and CNN-based visual features
..... Jeong Beom Ju, Hye-Jin Kim, Minwoo Choi, Seokjun Lee, Cheorun Jo
- OE25005 Potential of exudate metabolites for non-destructive prediction of total viable counts in beef
..... Seokjun Lee, Heesang Hong, Hye-Jin Kim, Hyun-Jun Kim, Cheorun Jo
- OE25006 Influence of banana peel extract on the promotion of Maillard reaction in meat-based systems
..... Nayoon Park, Hye-Jin Kim, Jeong Beom Ju, Cheorun Jo
- OE25007 Effects of *Abelmoschus manihot* Leaf Powder Addition on the Quality Characteristics of Chicken Breast Patties
..... Jiwoo Kang, Sanghun Park, Gyutae Park, Soyoung Jang, Beobmo Ku, Minjun Kim, Yang-il Choi, Taeyeon Moon, Myungsoo Ban, Sol-Hee Lee and Jungseok Choi
- OE25008 Effect of atmospheric pressure plasma treatment during hot-air drying of mealworms on microbiological and quality properties
..... So Eun Yeo, Rina Yu, Chemin Nam, Prabhathma Yasasvi Rathnayake, Jung Min Heo and Hae In Yong
- OE25009 Quality characteristics of dog treats formulated with black soldier fly larvae powder
..... Beobmo Ku, Minjun Kim, Jiwoo Kang, Soyoung Jang, Gyutae Park, Sanghun Park, Sol-hee Lee, Jungseok Choi
- OE25010 Effects of creatine supplementation on the proliferation and differentiation of Hanwoo muscle satellite cells
..... Soyoung Jang, Sanghun Park, Gyutae Park, Beobmo Ku, Minjun Kim, Jiwoo Kang, Sangjun Baek, Sol-hee Lee, Hack-Youn Kim, Jungseok Choi

제6발표분야 : 동물생명공학

- OF25001 Development of CPV kit based on CRISPR-Cas13 system for point-of-care diagnostic
 허민영, 홍인표, 이윤석
- OF25002 Mitigating Effects of Euphorbia hypericifolia on Citrinin-Triggered Ferroptosis and Epithelial Barrier Dysfunction
 임승준
- OF25003 Protective effects of *Nymphoides peltata* against patulin-induced glutamine metabolic stress and epithelial toxicity in IPEC-J2 cells
 Chae Hyun Lee, Sang In Lee
- OF25004 Development of genetically modified yeast to produce eicosapentaenoic acid (EPA)
 Nam HR, Kang SK
- OF25005 Development and application of pig intestinal organoids for nutritional studies
 Sang Seok Joo, Eunbyeol Lee, Eunseon Oh, Hee Yeon Kim, Myunghoo Kim
- OF25006 Cell lines development from skin and kidney of Hanwoo cattle for livestock vaccine production
 Ismail Shaleh, Si Eun Kim, Hee Su Jeong, Soo Hyun Kim, Tae Sub Park

제7발표분야 : 동물복지, 행동 및 기타

- OG25001 Effects of environmental enrichment on growing pigs' performance and agonistic behavior
..... Md Kamrul Hasan, Hong-Seok Mun, Eddiemar B. Lagua,
Young-Hwa Kim, Md Sharifuzzaman and Chul-Ju Yang
- OG25002 Computer vision-based detection of behavior changes in salmonella-infected pigs
..... Eddiemar B. Lagua, Hong-Seok Mun, Md Sharifuzzaman, Md Kamrul Hasan,
Young-Hwa Kim and Chul-Ju Yang
- OG25003 Effect of behavioural and physiological factors of hyperprolific sows on piglet crushing in loose housing systems after farrowing
..... Yujin Jung, Minu Ju, Jinhyeon Yun
- OG25004 Gut microbial alteration in growing pigs: response to social behaviours and skin lesions after regrouping
..... Woohee Chung, Junsik Kim, Cheolju Park, Minseok Kim, Jinhyeon Yun
- OG25005 Increasing the role of important oriental medicine doctors in companion animal oriental veterinary medicine
..... Jongbeom Jeong
- OG25006 인수공통전염병 조류인플루엔자(AI) 예방에 탁월한 동충하초 한약재
..... 정종범
- OG25007 The oriental medicine efficacy of Nandamban to prevent African swine fever (ASF)
..... Jongbeom Jeong

포 스톨 발 표



제1발표분야 : 단위동물 영양 · 사양

- PA25001 Optimizing broiler growth, health, and profitability with citric acid- assessing the optimal dose and risk factors
 Md Sharifuzzaman, Hong-Seok Mun, Eddiemar B. Lagua, Young-Hwa Kim, Md Kamrul Hasan and Chul-Ju Yang
- PA25002 Prediction equations for estimating energy utilization in feed ingredients and diets for nursery and growing pigs based on conventional or multi-sample simultaneous *in vitro* procedure
 Yeojin An, Noa Park and Beob Gyun Kim
- PA25003 Supplemental effects of different types of pine needle additives on growth performance and intestinal environment of broiler chickens
 Yi-Qiang Chang, Seung-Gyu Moon, Yan-Qing Wang and Soo-Ki Kim
- PA25004 Effects of dietary *Bacillus coagulans* supplementation on growth performance, blood profiles, immune responses, and serum biochemical parameters of weaned pigs
 T. Jang, Y. Kang, I. Shin, H. Hwang, H. Kyoung, J. J. Lee, and M. Song
- PA25005 Effects of probiotic *Bacillus subtilis* supplementation on growth performance and systemic health parameters of weaned pigs
 H. Hwang, Y. Kang, I. Shin, T. Jang, H. Kyoung, J. J. Lee, and M. Song
- PA25006 Effects of probiotic *Bacillus subtilis* on gut microbiota and metabolites of weaned pigs
 I. Shin, Y. Kang, H. Hwang, T. Jang, H. Kyoung, J. J. Lee, and M. Song
- PA25007 Effect of pyruvate supplementation on growth performance, blood profile and antioxidant activity in broilers fed high oxalate diets
 G. S. Kim, H. S. Lee, W. B. Choi, J. S. Kim, Y. C. Kim, H. C. Lee and M. J. Kim
- PA25008 Yolk corticosterone in welfare-certified laying hen farms with different building insulation levels during summer
 Seong Taek Kim, Vu Viet Anh, Da-Hye Kim, Gyu Bum Choi, Ju-Hee Lee, Sun Hoo Moon, Jae-Hyun Nam, Sang-Ho Kim and Kyung-Woo Lee

- PA25009 Effect of β -mannanase supplementation in low-energy and low-protein diets on performance, intestinal morphology, and fatty liver incidence in laying hens
..... Min Sung Kang, Kang Hyeon Kim, Tae Hyun An, Ye Jin Jeong, and Dong Yong Kil
- PA25010 Effect of dietary β -mannanase supplementation in low-energy diets containing high-mannan ingredients on productive performance, blood measurements, and intestinal morphology in laying hens raised under heat stress conditions
..... Charline Mugeniwayesu, Hyun Woo Kim, Sun Hwan Kwon, Jeong Hun Seo, and Dong Yong Kil
- PA25011 Effect of functional nutrients in low crude protein diets on immune response and stress indicators in broiler chickens raised under multiple stress conditions
..... Hyun Woo Kim, Ji Hye Lee, Ryun Ha Kim, Ju Hye Kim and Dong Yong Kil
- PA25012 Effects of *in ovo* feeding of arginine and breeder age on hatching and post-hatch performance, morphometry, relative organ weight, and liver characteristics in broiler chickens
..... Ju Yeong Park, Yeong Bin Kim, Gyu Lim Yeom, Ha Neul Lee, Geun Yong Park, Ji Won Shin, Jong Hyuk Kim
- PA25013 Comparison of life stage specific nutritional standards for canine feed between the American Association of Feed Control Officials (AAFCO) and the European Pet Food Industry Federation (FEDIAF)
..... Yeongjae Chae, Hyunok Doo, Jinok Kwak, Juyoun Kang, Yejin Choi, Haram Kim, Suyoung Lee, Hyunjin Yang, Sheena Kim and Hyeun Bum Kim
- PA25014 *Lactobacillus plantarum* 기반 유산균 및 발효물 복합제 락토맥스의 이유자돈 급여효과 규명
..... 박성현, 박민수, 장민혁, 김지욱, 김유용
- PA25015 Dietary beta-glucan and its impact on gut health, immune function, and stress adaptation in weaned piglets
..... Park Seon Ah
- PA25016 Effects of mannanase supplementation in broiler fed with low protein and energy level
..... So Dam Choi, Jun Young Mun, Habeeb Tajudeen, Abdolreza Hosseindoust, Sang Sik Lee, Priscilla Silvestre, Seon Ah Park and Jin Soo Kim
- PA25017 Effects of body dimensions during the reproductive cycle on gilt and litter performance
..... Sang Sik Lee, Abdolreza Hosseindoust, Jun Young Mun, So Dam Choi, Seon Ah Park, Priscilla Neves Silvestre, Habeeb Tajudeen and Jin Soo Kim

- PA25018 Nutritional and physiological response to feed form and sodium bicarbonate-adjusted dietary electrolyte balance in lactating sows under heat stress
 Jun Young Mun, Abdolreza Hosseindoust, Habeeb Tajudeen, Priscilla Neves Silvestre, So Dam Choi, Seon Ah Park, Sang Sik Lee and Jin Soo Kim
- PA25019 Utilization of adding palm kernel meal and β -mannanase on pork quality and carcass traits in growing-finishing pigs
 Suwannamane Jintana, 박민수, 박상연, 김지옥, 김유용
- PA25020 육성 및 비육돈 사료 내 팜박과 β -mannanase의 첨가가 성장성적, 혈액성상에 미치는 영향
 박상연, 박민수, 김지옥, Suwannamane Jintana, 김유용
- PA25021 Effect of *Lactococcus lactis* JNU 534 supplementation on the performance, blood parameters and meat characteristics of *Salmonella enteritidis* inoculated broilers
 Hyun A Song, Junsung Kim, Hyeongtae Jeon, Gisung You, Sehyeon Park, Cheolwoo Kim and Junkoo Yi
- PA25022 Effects of BSFL on growing-finishing pigs in growth performance, nutrient digestibility, blood profiles, and gas emission
 Hyuck Kim, Jihong Jung, Dongcheol Song, Kyeongho Jeon, Jinmo Yang, Hyohyeon Yu and Jinho Cho
- PA25023 Effect of replacing fishmeal with defatted and hydrolyzed black soldier fly larvae in the diet of broiler breeders
 Jinmo Yang, Jihong Jung, Dongcheol Song, Kyeongho Jeon, Hyuck Kim, Hyohyeon Yu and Jinho Cho
- PA25024 Development of a new *in vitro* method to complement the existing method using commercial dog diet
 Kyeongho Jeon, Dongcheol Song, Hyuck Kim, Jinmo Yang, Hyohyeon Yu and Jinho Cho
- PA25025 Effects of defatted and hydrolyzed black soldier fly larvae meal as an alternative fish meal in weaning pigs
 Dongcheol Song, Jihong Jung, Kyeongho Jeon, Hyuck Kim, Jinmo Yang and Jinho Cho
- PA25026 Effect of feed form on growth performance of finishing pigs
 Inho Cho and Changsu Kong
- PA25027 Effects of probiotics feeding on pig productivity and intestinal microbiome composition
 Hoseo Ryu, Andrew Wange Bugenyi, Anh Duc Truong, Ki-Duk Song, Hak-Kyo Lee and Jae Young Heo

- PA25028 Interactive effects of dietary crude protein and electrolyte balance on urine pH, slurry pH, and nitrogen balance of pigs
 Hyunseok Do, Okhwa Hwang and Beob Gyun Kim
- PA25029 Investigation of heavy metal contamination in domestic animal feed
 Soo-Bin Kwon and Eun hee Chang
- PA25030 Comparison of digestibility measurements of various protein sources in monogastric animals using a two-step *in vitro* digestibility method
 Esther Lee, Sena Jo, Jaehyuk Lee, Sang-Hyon Oh and Jae-Cheol Jang
- PA25031 Overexpression of LY9 enhances myogenic differentiation in C2C12 and bovine satellite muscle cell
 Sunirmal Sheet, Jin-A Lim and Dahye Kim
- PA25032 Analysis of the composition of commercial feeds for domestic high-yielding sows
 Young-Hwa Kim, Hong-Seok Mun, Eddiemar Lagua, Md Sharifuzzaman, Md Kamrul Hasan and Chul-Ju Yang
- PA25033 Effects of *Saccharomyces cerevisiae* CACC699 Supplementation on Growth Performance, Fecal Odor Emissions, and Gut Microbiota in Weaned and Finishing Pigs
 Soyeon Park, Seoyun Son, Dajung Lim, Mi Ae Park, Dae-Hyuk Kim and Yangseon Kim
- PA25034 Effect of single-strain (*Bacillus licheniformis*) or multi-strain probiotics (*Bacillus subtilis* and *Bacillus licheniformis*) on gut health parameters in broiler chickens
 Viet Anh Vu, Jina Park, Da-Hye Kim, Byung-Yoen Kwon, Ju-Yong Song, Sung-Ho Lee and Kyung-Woo Lee
- PA25035 Simultaneous determination of deoxynivalenol, its modified forms, and Nivalenol by QuEChERS combined with LC-MS/MS method in animal feeds
 Ji Hye Lee, Chae-eun Yeo, Eun Hee Chang, Sung-Youn Kim, Hyo-young Kim, Kangmin Seo and Hyunjeong Cho
- PA25036 Apparent total tract digestibility of energy, and digestible and metabolizable energy values on bakery and biscuit meal in growing pigs fed with multi-enzyme
 Jihwan Lee, Joeun Kim, Junseon Hong, Hyunju Park, Soojin Sa, Sungwoo Park, Yongmin Kim, Sungdae Lee, Yohan Choi and Yongdae Jeong

- PA25037 The effect of *Aspergillus oryzae* phytase on growth performance, nutrient digestibility, and health parameters of broilers fed a corn soybean meal-based diet
..... Seung Jin Yun, Sungbo Cho, Usman Ali and In Ho Kim
- PA25038 Effects of micelle piperine supplementation on growth performance, nutrient digestibility, and physiological responses in broiler chickens
..... Se Yeon Jang, Golam Sagir Ahammad and In Ho Kim
- PA25039 *Astragalus membranaceus* and citrus extracts enhance the growth and combat oxidative stress in weaning pigs through mRNA expression modulation
..... Kye Jin Lee, Golam Sagir Ahammad and In Ho Kim
- PA25040 Effect of *Cordyceps militaris* powder on dextran sulfate sodium-induced colitis in mice
..... J. S. Kim, H. S. Lee, G. S. Kim, W. B. Choi, Y. C. Kim, H. C. Lee and M. J. Kim
- PA25041 Effects of dietary *Bacillus caogulans* supplementation on fecal microbiota and metabolites of weaned pigs
..... Y. Kang, I. Shin, H. Hwang, T. Jang, H. Kyoung, J. J. Lee, and M. Song
- PA25042 Effects of probiotic *Lactiseibacillus rhamnosus* on serum metabolites and fecal microbiota profiles of heat-stressed growing pigs
..... H. Kyoung, Y. Kang, I. Shin, J. J. Lee and M. Song
- PA25043 Effects of probiotics, synbiotics, and synbiotics with benzoic acid on growth performance, digestibility, and stress indicators in broilers
..... Young Bin Park, Yeong Min Hwang, Dong Wook Kim, Sung Young Jung, Dong Wook Kim and Sung Ho Lee
- PA25044 Effect of alternative protein ingredients on feed intake and weight gain in weaning pigs
..... Je Min Ahn, Seung Jin Yun, Kye Jin Lee and In Ho Kim
- PA25045 Nutrient digestibility across life stages in Jindo dogs
..... Min Young Lee, Ju Lan Chun, Sang-Yeob Lee, Hyun Woo Cho, Kyoung-Min So, Han Tae Bang, Woo-Do Lee and Seyeon Chang
- PA25046 *In vitro* ileal nutrient digestibility of commercial dog treats
..... Sun Hoo Moon, Da-Hye Kim, Seong Taek Kim, Gyu Bum Choi, Jaehyun Nam1, Juhee Lee, Vu Viet Ahn, Han-Tae Bang, Ju Lan Chun and Kyung-Woo Lee

- PA25047 Enhancement of bioactive substances of oriental medicinal herbs through solid-state fermentation for canine and feline welfare
..... Ha Guyn Sung, Ah Yeong Choi, Hyouk Yoon and Youn-Kyung Ham
- PA25048 Evaluation of a starter diet for post-weaning puppies: effects on body condition, fecal quality, and fecal microbiota in mixed-breed weaning puppies
..... Geun Hyeon Park, Sung Ho Do, Dayun Kim, Sehyun Shim and Jung Hwee Park
- PA25049 The effect of crude protein levels in growing pig diets on manure nitrogen emissions: a meta-analysis
..... Jae-Cheol Jang, Sang-Hyon Oh, Yoo Yong Kim and Hee Kyung Oh
- PA25050 Comparison of *in vitro* simulation of digestibility in dogs
..... Seyeon Chang, Han Tae Bang, Kyoung-Min So, Min Young Lee, Sang-Yeob Lee, Woo-Do Lee, Hyun-Woo Cho and Ju Lan Chun
- PA25051 팜박과 CTCzyme의 첨가에 따라 포유모돈의 생산성에 미치는 영향
..... 이승훈, 박민수, 김지욱, 김유용
- PA25052 Effect of Korean native black goat containing pet food on the health of aged dogs
..... Seyeon Chang, Han Tae Bang, Kyoung-Min So, Min Young Lee, Sang-Yeob Lee, Woo-Do Lee, Hyun-Woo Cho and Ju Lan Chun
- PA25053 Evaluation of palatability, nutrient digestibility, fecal score, and blood profiles in pet food used chicken and sunflower oils as fat sources
..... Seyeon Chang, Han Tae Bang, Kyoung-Min So, Min Young Lee, Sang-Yeob Lee, Woo-Do Lee, Hyun-Woo Cho and Ju Lan Chun
- PA25054 Effects of dietary energy during the rearing and early laying phases on egg production, egg quality, and internal organ characteristics in laying hens
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- PA25055 Evaluating dietary protein reduction and beet pulp inclusion as sustainable feeding strategies in laying hen diets
..... Hye Suk Kim, Li Tian Xinag, Se Yeon Jang and In Ho Kim
- PA25056 송용마 급여실험을 통한 국내산 열풍 건조 이탈리아 라이그라스(IRG)의 사료가치 평가
..... 김재진, 김영래, 이소희, 최준, 정운혁, 최지우, 서명천, 신종서, 박병기, 김민지
- PA25057 산란계 사육형태(방사, 평사)에 따른 계란 난황내 지방산 조성 비교
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- PA25058 Effects of housing systems on productivity, welfare, and bone health in late-phase laying hen
 Hee-Jin Kim, Hyunsoo Kim, Eui-Chul Hong, Da-Som Lee and Sung-June Byun
- PA25059 Deoxynivalenol toxicity causes changes to growth performance, biochemistry, histology, metabolomics, and microbiota
 Jin Young Jeong, Minji Kim and Boram Lee
- PA25060 Evaluation of the feed value of poultry by-products (chicken intestine)
 Seonghun Shim, Hwanku Kang and HwaSeol Park

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- PB25001 Optimizing composting system and additives use to enhance efficiency and minimize emissions
 Ji Won Shin, Geun Yong Park, Gyu Lim Yeom, Ha Neul Lee, Yeong Bin Kim, Ju Yeong Park and Jong Hyuk Kim
- PB25002 Revolutionizing pig farming: Japan's technological innovations and environmental strategies for sustainability
 Md Kamrul Hasan, Hong-Seok Mun, Eddiemar B. Lagua, Young-Hwa Kim, Md Sharifuzzaman and Chul-Ju Yang
- PB25003 Development of demonstration technology for low carbon and odor reduction model using convergence technology
 YoungSun Choi, YuJin No, MinJung Ku, CheolHwan Nam, SeopHun Kim and DaeYoung Jeong
- PB25004 Evaluation of microbial application and fixed sludge extraction in liquid manure storage tanks on swine farms
 YuJin No, YoungSun Choi, MinJung Ku, CheolHwan Nam, HunSeop Kim and DaeYoung Jeong
- PB25005 Zeolite-sulfuric acid mixture mitigates ammonia emission from pig manure and its fertilizer potential
 Sang-Hyun Park, Bok-Rye Lee and Tae-Hwan Kim
- PB25006 Deoxynivalenol toxicity causes changes to growth performance, biochemistry, histology, metabolomics, and microbiota
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- PB25007 말 방목 농가의 방목두수와 면적에 따른 토양의 화학적 분석
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- PB25008 마분퇴비 퇴비 시용 수준에 따른 방목지 목초 생산성과 토양 변화
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- PB25009 마분퇴비 시용 수준에 따른 간이 라이시미터내 목초 생산성과 토양 변화
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- PB25010 Growth, intake, digestibility, and morphological development in male hybrid goats fed local barnyard millet or imported bermuda hay at varying levels
 Eun-Do Lee, Byamungu Mayange Tomple, Dong-Kyo Kim, Hee Chung Ji and Kwan-Woo Kim
- PB25011 Influence of forage feeding levels on growth, nutrient intake, digestibility, and morphology in female Korean hybrid goats
 Byamungu Mayange Tomple, Eun-Do Lee, Dong-Kyo Kim, Hee Chung Ji and Kwan-Woo Kim

제3발표분야 : 반추동물 영양 · 사양

- PC25001 Effects of genomic estimated breeding values on rumen fermentation characteristics, and growth performances in Hanwoo heifers
..... H. W. Shin, D. J. Lim, D. K. Yoo, J. M. Kim and J. K. Seo
- PC25002 Effects of *Chenopodium album* L. Silage on *in vitro* rumen fermentation and its potential as a sustainable feed resource for ruminants
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- PC25003 Carbohydrate-digesting enzyme supplementation shifts ruminal microbiota but affects ruminal digestibility and fermentation temporarily in an *in vitro* fermentation system
..... Myeong-Gwan Oh, Sangin Park, Joonpyo Oh and Tansol Park
- PC25004 Evaluation of metabolizable protein of feed grains in a single-ingredient diet for Hanwoo cattle
..... Lee, S. J, H.W. Shin, B. S. Kim, S.H. Park, S.J. Yoon, J.Y. Song, J.S. Ahn, J. K. Park, J. H. Lee, D. J. S. Jung and J. K. Seo
- PC25005 MP_{feed} evaluation of Hanwoo concentrate mix ingredients
..... Kim, B. S., H. W. Shin, S. J. Lee, S. H. Park, S. J. Yoon, J. Y. Song, J. K. Park, J. S. Ahn, J. H. Lee, D. J. S. Jeong and J. K. Seo
- PC25006 Changes in growth performance of fattening Hanwoo heifers based on genomic estimated breeding for carcass weight
..... D. K. Yoo, D. J. Lim, H. W. Shin, J. M. Kim and J. K. Seo
- PC25007 Ruminal methane inhibitor screening using molecular docking between 630,000 chemical compounds against methyl-CoM reductase
..... Ryukseok Kang, Jongsik Jeong, Pilho Kim, Yuno Lee, Myunghoo Kim and Tansol Park
- PC25008 Effects of heat stress on blood profiles and heat shock protein expression in holstein cows during the dry and lactation stages
..... Ye Pyae Naing, Seon-Ho Kim, A-Rang Son, Michelle Miguel and Sang-Suk Lee
- PC25009 Effect of the addition of Wando seaweed on *in vitro* rumen fermentation and methane reduction
..... Jeong-Uk Jang, Ye Pyae Naing, Seon-Ho Kim, A-Rang Son and Sang-Suk Lee

- PC25010 **Sucrose supplementation improves metabolic and immune responses in heat-stressed dairy cows**
 Beyongcheol Ban, Sejin Ki, Seonho Kim, Jihoo Park, Sangbum Kim, Mooyoung Jung, Joonpyo Oh, Sangsuk Lee and Myunghoo Kim
- PC25011 **Effects of butyric acid and/or *Clostridium btyricum* S-45-5 supplementation on growth performance, diarrhea prevention, and gut microbiota in Hanwoo calve**
 Jun Cui, So Hee Lee, Young Lae Kim, Yun He Zheng, Ji Woo Choi, Jae Jin Kim, Sang Kook Kim, Soo An Kim, In Gi Jo, Gyung Hyun Jo, Sung oh Sohn, Jong Keun Kim, Do Young Hwang, Jong Suh Shin, Min Ji Kim and Byung Ki Park
- PC25012 **Effects of halocin and polyhydroxyalkanoate-producing archaea on *in vitro* rumen fermentation characteristics and methane reduction**
 Janine I. Berdos, Keun Sik Baik, Khanza Syahira Dhia, Michelle Miguel, A-Rang Son, Seon-Ho Kim and Sang-Suk Lee
- PC25013 **Effects of kaolinite-based supplementation on in vitro rumen fermentation characteristics and gas production**
 Khanza S. Dhia, Jeong-Wook Jang, Michelle A. Miguel, A-Rang Son, Seon-Ho Kim and Sang-Suk Lee
- PC25014 **Effect of blanching process of *Codium fragile* and *Ecklonia cava* on chemical compositions, *in vitro* rumen digestibility and mineral value**
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- PC25015 **Effects of sprouted barley supplementation level on growth performance and carcass characteristics of Hanwoo**
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- PC25016 **흑염소 자축 인공포유에 따른 생육특성 평가**
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- PC25017 **Effect of feeding hot-air dried alfalfa hay on the productivity of lactating dairy cows**
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- PC25018 ***In vitro* evaluation of micellized plant extracts for methane mitigation in rumen fermentation**
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- PC25019 **Effect of low-protein diets considering metabolizable protein supply on growth performance and carcass traits in late-fattening Hanwoo steers**
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 Gyo Moon Chu and Jae Yong Song
- PC25020 **Nutrient fraction and growth characteristics of fattening Hanwoo steers according to roughage types**
 Gi Hwal Son, Suk Jun Yun, Jae Yong Song, Jeong Heon Lee, Jun Sang Ahn, Da Jin Sol Jung,
 Gyo Moon Chu and Joong Kook Park
- PC25021 **Effects of different levels of *Asparagopsis taxiformis* collected from Jeju on methane production and rumen fermentation characteristics**
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- PC25022 **Evaluation of compound^{#1} supplementation levels on *in vitro* rumen fermentation characteristics and methane emission**
 Dong-Hyun Lim, Jun Sik Eom, Seong Min Park, Ji Hoo Park, Dong Hyun Kim and Hyun Jong Kim
- PC25023 **Effects of 2,2 ‘-dithiodiethanesulfonic acid supplementation level on *in vitro* rumen fermentation characteristics and methane production**
 Jo Seong Uk, Kim Hyun Sang, Lee Yoo Kyung, Kim Byul, An Dal Rae, Kang Hwan Ku and Lee Seong Shin
- PC25024 **Seasonal variation in productivity and milk characteristics of holstein cows under commercial farm conditions**
 Byeonghyeon Kim, Kyeong-seok Kwon, Dong-hwa Jang, Jaceun Kim, Vandet Pann and Jong-bok Kim
- PC25025 **Effects of the sorghum grain as alternative dietary source to maize on rumen fermentation, blood characteristics and growth performance in Hanwoo steers**
 Kim Byul, Lee Seong Shin, Lee Yoo kyung, Jo Seong Uk, An Dal Rae, Kang Hwan Ku and Kim Heoyn Sang
- PC25026 **Respiration chamber-based comparison of methane emissions in Jersey and Holstein heifers**
 Jun sik Eom, Hyun Jong Kim, Seong Min Park, Jihoo Park, Dong Hyeon Kim, Tae Jeong Choi, Ji Hwan Lee,
 Chan Lan Kim, Mooyoung Jung and Dong Hyun Lim
- PC25027 **아르기닌의 추가 공급 방법 및 축종별 반추동물의 혈중 인슐린 농도에 미치는 영향: 메타분석**
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- PC25028 **사료 내 대사에너지와 대사단백질 비율이 질소 이용 효율 및 산유성적에 미치는 영향: 메타 회귀분석**
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- PC25029 Analysis of biochemical and microbial effects of SCOBY-AAs supplement as synbiotics on fermented TMR
..... Gayeon Seo, Min-Geun Kang, Younghoon Kim and Jong Nam Kim
- PC25030 Effects of alfalfa intake levels on growth performance of Hanwoo steers at the growing stage
..... Sungjin Moon, Sunsik Jang, Myungsun Park, Kyunghwan Um, Gisuk Jang, Jeongsung Jung and Youlchang Baek
- PC25031 Dietary Lipid and Antioxidant Supplementation Remodels the Rumen Microbiome and Carbohydrate-Active Enzyme Repertoires in Sheep
..... Mekonnen Tilahun, Tansol Park, Aurele Kenfack Ayemele Gnetegha, Ryukseok Kang, Todd R. Callaway, Dengpan Bu and Jianchu Xu
- PC25032 흑모화우 비육우의 혈장 내 비타민 A 농도가 혈장 내 아미노산 및 관련 대사 물질 농도에 미치는 영향
..... 도한울, Emi Yoshida, Tatsunori Masaki, Eiji Iwamoto and Shozo Tomonaga
- PC25033 Effect of vitamin A injection at birth on growth and lipogenic gene expression in Hanwoo calves
..... Kyung-Hwan Um, Sung Jin Moon, Myungsun Park, Borhan Shokrollahi, Youl-Chang Baek, Gi-Suk Jang, Shil Jin and Sun Sik Jang
- PC25034 Investigation of rumen microbiota developments in calves raised on practical farms during early life
..... Huyn-SiK Choi and Ha Guyn Sung
- PC25035 Ruminal fluid transplantation accelerates rumen microbial remodeling in Korean black goat
..... Woo Chan Yu, Se Hoon Jang and Ha Guyn Sung
- PC25036 건초 초종이 육성기 한우 거세우의 섭식행동에 미치는 영향 평가
..... 조현진, Andrian Deguinion Ragandang, 강남규, 서성원
- PC25037 제주흑한우 육성기 성장(체중-체형) 특성 조사
..... 원미영, 신상민, 김언테, 이승은, 김원재, 양병철
- PC25038 *In vitro* evaluation of bull kelp (*Durvillaea potatorum*) as a functional feed additive for ruminants
..... Ji Woo Choi, So Hee Lee, Young Lae Kim, Jun Cui, Yun He Zheng, Jae Jin Kim, Tea Young Choi, Byung Ki Park, Sang-Hee Lee and Min Ji Kim

- PC25039 **Effects of corn and soybean meal levels and expected breeding value on growth performance and carcass characteristics in late-fattening Hanwoo steers**
 Yun He Zheng, Young Lae Kim, So Hee Lee, Jun Cui, Ji Woo Choi, Jae Jin Kim, Jae Yong Song, Joong Kook Park, Jun Sang Ahn, Jeong Heon Lee, Suk Jun Yun, Gi Hwal Son, Jong Suh Shin, Min Ji Kim and Byung Ki Park
- PC25040 **Diversity and functional analysis of rumen microbial communities in Hanwoo steers supplemented with an *Asparagopsis*-based feed additive**
 Michelle Miguel, Mozart Nuzul Aprilliza AM, A-Rang Son, Seon-Ho Kim, David Lawson and Sang-Suk Lee
- PC25041 **Effects of a coriander essential oil-based feed additive on rumen fermentation, growth performance, and methane emissions in Hanwoo steers**
 Michelle Miguel, Mozart Nuzul Aprilliza AM, A-Rang Son, Seon-Ho Kim and Sang-Suk Lee
- PC25042 **Effects of heat stress on goats: a meta-analysis**
 Gyeonjin Kim, Jae Woo Nam, Jung Sup Bae, Sang Ho Moon, Kwan-Woo Kim and Eun Joong Kim
- PC25043 **Effect of increasing forage intake during the growing period on growth performance, body measurements, blood metabolites, and carcass traits in Hanwoo steers**
 Changhyun Lee, Hyeokjoong Kang, Wonseok Ju and Joonpyo Oh
- PC25044 **Growth stage-related transcriptome changes associated with beef quality in *longissimus thoracis* muscle of Hanwoo steers**
 Sang Yeob Kim and Myunggi Baik
- PC25045 **Effect of seleno-methionine supplementation on growth performance and carcass characteristic in Hanwoo steers**
 Young Lae Kim, So Hee Lee, Jun Cui, Yun He Zheng, Ji Woo Choi, Jae Jin Kim, Jeong Keum Park, Chang Sik Choi, Chang woo Lee, Jae Yong Song, Joong Kook Park, Jun Sang Ahn, Jeong Heon Lee, Suk Jun Yun, Gi Hwal Son, Min Ji Kim, Jong Suh Shin and Byung Ki Park
- PC25046 **Effects of different levels of *Clostridium butyricum* S-45-5 supplementation on the growth performance, disease incidence, and intestinal microbiota of Hanwoo calves**
 So Hee Lee, Young Lae Kim, Jun Cui, Yun He Zheng, Ji Woo Choi, Jae Jin Kim, Sang Kook Kim, Soo An Kim, In Gi Jo, Gyung-Hyun Jo, Seong-Jeong Han, Ki-Deuk Bae, Eu-jin Ban, Min Ji Kim, Jong Suh Shin and Byung Ki Park
- PC25047 **A comparative study on the diversity of ruminal microbiology among bovine breeds**
 Eun Tae Kim, Seung-Eun Lee, Sang-Min Shin, Dong-Hyun Lim, Tai-Young Hur, Sang-Bum Kim, Myeong-Gwan Oh, Wanho Jo, Woohyung Lee and Tansol Park

- PC25048 Comparison of precision and standard feeding strategies on milk production and feed efficiency in holstein milking cows**
..... Seong-min Park, Hyun-jong Kim, Dong-hyun Lim, Ji-hoo Park, Dong-hyun Kim and Sang-beom Kim
- PC25049 Growth and structural outcomes in male Korean crossbred goats fed different concentrate levels**
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- PD25001 Exploring the transcriptomic regulation of muscle development in chickens
..... Jae-Rung So1, Andrew Wange Bugenyi and Ki-Duk Song
- PD25002 Elucidating regulatory roles of non-coding GWAS variants via CRISPR activation framework
..... Jaewon Kim, Eunjin Cho, Tae Hyun Kim and Jun Heon Lee
- PD25003 Genome-wide association studies on body weight and growth rate in Korean native ducks
..... Jinhyeung Kim, Minjun Kim, Eunjin Cho, Jaewon Kim and Jun Heon Lee
- PD25004 Transcriptomic analysis of porcine ileal gut based on body weight differences in suckling piglet
..... W. B. Choi, H. S. Lee, G. S. Kim, J. S. Kim, Y. C. Kim, H. C. Lee and M. J. Kim
- PD25005 Transcriptomic analysis of porcine ileal gut based on body weight differences in weaning piglets
..... H. S. Lee, G. S. Kim, W. B. Choi, J. S. Kim, Y. C. Kim, H. C. Lee and M. J. Kim
- PD25006 Optimizing culture temperature for enhanced proliferation and mitochondrial activity in chicken muscle satellite cells
..... Dong Jin Yu, Kwan Seob Shim and Da Rae Kang
- PD25007 Investigation of the effects of *in-ovo* injection glucose and CopA3 on hatchability traits and developmental potential in broiler chickens
..... Lee Cheon Kim, Kwan Seob Shim and Da Rae Kang
- PD25008 Machine learning-based selection of informative SNP markers for distinguishing Korean native chicken layers
..... Eunjin Cho, Minjun Kim, Hyo Jun Choo and Jun Heon Lee
- PD25009 Statistics of bovine embryo production and transfer in 2023
..... Junsung Kim, Joao H. M. Viana, Hyun A Song, Hyeongtea Jeon, Cheolwoo Kim, Gisung You, Sehyeon Park and Junkoo Yi
- PD25010 Comparative analysis of growth traits and economic efficiency between non-racing thoroughbreds and crossbred belgian horses
..... Chanwool Park, Chansung Jeong, Hyun A Song, Junsung Kim, Hyeongtea Jeon and Junkoo Yi

- PD25011 **Comparison of miRNA expression in blood and saliva in young healthy pigs**
..... Ga-Hyeon Jeong, Jeong-Woo Han and Kyu-Sang Lim
- PD25012 **Therapeutic potential of ethyl pyruvate in restoring reproductive function in male mice with dysbiosis**
..... Wijesooriya Mudhiyanselage Nadeema Dissanayake,
Malavi Arachchi Gamage Nayodya Dananjane Malavi Arachchi Gamage, Jung Min Heo and Young-Joo Yi
- PD25013 **생체정보수집장치의 보급 및 활용성과 분석**
..... 고대화, 정세훈, 김진욱, 남기택
- PD25014 **Correlation of service rates and substance P and behavioral indices of recipient cows according to hormonal synchronization in bovine embryo transfer**
..... Hyeongtae Jeon, Junsung Kim, Hyun A Song, Gisung You, Sehyeon Park, Cheolwoo Kim, Junkoo Yi
- PD25015 **Comparative analysis of pregnancy rates based on temperature-humidity index in dairy cows in the Jeolla-do region during 2024**
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- PD25016 **Development of an artificial intelligence algorithm for determining the developmental stage of bovine embryos**
..... Minji Seo, Misoo Kim, Jisu Kim, Mirae Kim, Jiyeon Han, Jong-il Jeong,
Hyeonho Lee, Siwon Lee, Ji Hyun Park, Gyeong-Min Gim, Jinyeon Park,
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- PD25017 **Alteration of mTOR signaling pathway in reproductive dysfunction caused by dysbiosis in male mice**
..... Malavi Arachchi Gamage Nayodya Dananjane Malavi Arachchi Gamage,
Wijesooriya Mudhiyanselage Nadeema Dissanayake, Young-Joo Yi and Seung-Tae-Moon
- PD25018 **Evaluation of the functional role of corpus luteum cavity in recipient selection for bovine embryo transfer**
..... Gisung You, Junsung Kim, Hyun A Song, Hyeongtae Jeon, Cheolwoo Kim, Sehyeon Park and Junkoo Yi
- PD25019 **Sex ratio and conception rates of fresh/vitrified embryos at different developmental stages by ovum pick up in Hanwoo cows**
..... Sehyeon Park, Junsung Kim, Hyun A Song, Hyeongtae Jeon, Cheolwoo Kim, Gisung You and Junkoo Yi
- PD25020 **Economic Impacts of ultrasonographic fetal sex determination on Hanwoo cattle profitability and market dynamics**
..... Cheolwoo Kim, Junsung Kim, Hyun A Song, Hyeongtae Jeon, Gisung You, Sehyeon Park and Junkoo Yi

- PD25021 **Postpartum progesterone dynamics in holstein cows: implications for optimal artificial insemination timing**
..... Seulgy Lee, Jihwan Lee, Gyeonglim Ryu, Hyeonguk Baek and Tae-Jeong Choi
- PD25022 **Development of breed-specific markers using single nucleotide polymorphisms (SNPs): based on feather color differences in Korean native chicken and Korean ogye**
..... Jiwon Kim, Yujin Han and Jae Yong Han
- PD25023 **Logistic regression-based prediction of genetic ability types in Hanwoo using estimated breeding values**
..... Seon-Ah Kwon, Joo-Young Lee, Jae-Gwon Kim, Won-Hyong Chung, Chang-Woo Lee, Jong-Bok Kim and Jung-Woo Choi
- PD25024 **Genome-wide association study using estimated genomic breeding values for carcass traits in Hanwoo cows**
..... Bumbayar Enkhbold, Yoonjae Han, GwangTaek Lim and Deukmin Lee
- PD25025 **Resumption of the postpartum estrus cycle in holstein cows based on estradiol, progesterone, rumination, and activity**
..... Hyeonguk Baek, Tae-Jeong Choi, Gyeonglim Ryu, Seulgy Lee and Jihwan Lee
- PD25026 **The role of gonadotropin and growth factor in regulating Ras and its GTPases during the maturation in cumulus oocyte complexes of pigs**
..... Eunju Seok, Minyoung Son, Hyewon Kim, Yuna Nam, Jaekuk Cho, Minwoo Sin, Jaeun Kim, Chanjin Woo, Hyeonsoo Song, Hee-Tae Cheong and Sang-Hee Lee
- PD25027 **Genome-wide association study identified candidate loci for egg weight in Korean native chicken**
..... Minjun Kim, Eunjin Cho, Doo Ho Lee, Hyo Jun Choo, Jung Min Heo and Jun Heon Lee
- PD25028 **Non-contact estimation of sow body weight through fusion of 3D point cloud and conformation features**
..... Y. H. Choi, J. H. Lee, H. J. Park, J. H. Lee, H. J. Kim, J. E. Kim, Y. D. Jeong, S. J. Sa and H. C. Cho
- PD25029 **Changes in activity and rumination time around calving in dairy cattle**
..... Gyeonglim Ryu, Jihwan Lee, Hyeonguk Baek, Seulgi Lee and Tae-Jeong Choi
- PD25030 **Parity-specific impact of body condition score on fertility and calving ease in Hanwoo cows**
..... Myungsun Park, Sung-Sik Kang, Sun Sik Jang, Hyoun Ju Kim, Shil Jin, Gi Suk Jang, Yonghwan Kim and Youl Chang Baek

- PD25031 인공지능(AI)을 활용한 발정 행동 기반 축우 발정 탐지 모델 고도화
 김나연, 이지훈, 김주현, 허태준, 최윤철, 유홍종, 신민용, 김성진
- PD25032 한우 초산우의 분만 후 혈중대사물질 수준과 번식력 회복 간의 관계
 김용환, 이석동, 이명숙, 김봉기, 강성식
- PD25033 Analysis of changes in pregnancy and calving rates by months of age at
 artificial insemination in Hanwoo heifers
 Sung-Sik Kang and Yonghwan Kim
- PD25034 Comparative analysis of rat behaviors during exposure to CO₂, Ar, N₂
 Se Jin Lim, Su Mi Kim, Ka Young Yang, Chan Ho Kim and Jung Hwan Jeon
- PD25035 베타 카로틴 급여에 따른 한우 수태율 개선 방안 연구
 박진연, 김경민, 김도윤, 주영호, 백승대, 오동엽, 정대진, 허성은, 이재식, 권우성

제5발표분야 : 축산물 이용 및 가공

- PE25001 Resistance analysis of *Salmonella* isolated from chicken meat to sodium hypochlorite
 A Jin Lee, Erdenenavch Munkhbat, Chang-Geun Lim, Min Jeong Kim, Su Hyeon Yang, Mi Seong Lee, Seung-Hee Baek, In-Sik Nam
- PE25002 Non-destructive assessment of muscle and fat composition in pork belly and its correlation with physicochemical properties
 Haram Kim, Hyunok Doo, Jinok Kwak, Yejin Choi, Juyoun Kang, Yeongjae Chae, Suyoung Lee, Hyunjin Yang Pil Nam Seong, Samooel Jung, Young-Won Lee, Hyo Jung Kwon, Sheena Kim and Hyeun Bum Kim
- PE25003 Inactivation of aerosolized pathogens detected in edible insects using filter-type plasma
 So Eun Yeo, Cho Hyun Uk, Hyeon Seong, Seohyeon Jeon, Jung Min Heo and Hae In Yong
- PE25004 Effects of egg coating with pullulan, beet, and *Artemisia princeps* on egg quality under room temperature
 Ha Neul Lee, Gyu Lim Yeom, Yeong Bin Kim, Ju Yeong Park, Geun Yong Park, Ji Won Shin and Jong Hyuk Kim
- PE25005 Production and physicochemical characterization of probiotic co-cultured fermented yogurt
 Shuo Cui, HongRun Wang, Nisa Nusrat Jahan and Sungkwon Park
- PE25006 Characterization of microbes showing feather degradation
 Ji Yun Hwang, Ah-Ran Lee and Soo-Ki Kim
- PE25007 Monitoring results of hazardous substances in feed in 2024
 장은희, 김성연, 이지혜, 김효영, 서강민, 전나혜, 조현정
- PE25008 Impact of storage temperature on the quality characteristics of unwashed eggs from Hy-Line Brown Laying hens
 Myunghwan Yu, Jiseon Son, Hee-Jin Kim, Hyunsoo Kim, Da-Som Lee, Sung-June Byun and Eui-Chul Hong
- PE25009 Effects of storage temperature and duration on the quality characteristics of washed eggs
 Eui-Chul Hong, Hyunsoo Kim, Hee-Jin Kim, Myunghwan Yu, Jiseon Son, Da-Som Lee and Sung-June Byun

제6발표분야 : 동물생명공학

- PF25001 Development of intelligent ventilation control for second-generation smart poultry farms using computational fluid dynamics
..... Nae-Ho Park, Jun-Mo Kim
- PF25002 Glutamic acid modulates myogenic and antioxidant gene expression in Hanwoo muscle-derived cells under heat stress
..... Bo-Mi Kim, Xue-Cheng Jin, Jun-Hee Lee, Hyeon-Jun Oh, Won-Seob Kim, and Hong-Gu Lee
- PF25003 Immunoinformatics analysis of SLA-DRB1 diversity in Mong Cai Pigs for antigenic peptide presentation of Foot-and-Mouth Disease.
..... Nguyen Thu Uyen, Jae-Young Heo, Ki-Duk Song
- PF25004 Abamectin disrupts sperm function through the alteration of PKA and tyrosine phosphorylated proteins
..... Claudine Uwamahoro, Jae-Hwan Jo, Seung-Ik Jang, Eun-Ju Jung, Woo-Jin Lee, Jeong-Won Bae, and Woo-Sung Kwon
- PF25005 Effect of all-trans retinoic acid treatment on terminal myogenesis in bovine skeletal muscle-derived cells under chronic severe heat stress
..... Xue-Cheng Jin, Bo-Mi Kim, Jun-Hee Lee, Jae-Sung Lee, and Hong-Gu Lee
- PF25006 Phenotype characterization of T-cell immune responses in a mouse infection model with bovine digital dermatitis (BDD)- associated treponemes
..... Edeneil Jerome Valette, Hector Espiritu, Kichan Lee, Sujeong Jin, Sangsuk Lee, Myunghwan Jung, Yongil Cho
- PF25007 Effects of balenine on oxidative stress and myogenic differentiation in bovine skeletal muscle-derived cells under heat stress
..... Jun-hee Lee, Xue-Cheng Jin, Bo-mi Kim, Jin-Soo Park, Hyeon-jun Oh, Jae-sung Lee and Hong-Gu Lee
- PF25008 Silibinin alleviates vanadium-induced pulmonary injury through the TLR4/MAPK/ NF- κ B signaling pathway in mice
..... Zhibin Liu , Jiayi Zhang and Myoung ok Kim
- PF25009 The major metal components in urban Asian PM2.5 causes lung inflammation and abnormal electrolyte levels
..... Nangwon Yee
- PF25010 Berberine chloride hampers canine osteosarcoma cell growth by regulating the MMP2/AKT/ β -catenin pathway
..... Minha Jeong, Juhyeong Seo, Jiyeon Ham

- PF25011 Signaling pathway analysis of STING in chicken innate immunity by using CRISPR/Cas9-mediated gene knockouts
 Soohyun Kim, Si Eun Kim, Heesu Jeong, Ismail Shaleh, Tae Sub Park
- PF25012 Study of skeletal muscle fiber types in myostatin knock-out chickens during embryonic development
 Heesu Jeong, Ismail Shaleh, Si Eun Kim, Soo Hyun Kim, Tae Sub Park
- PF25013 Integrated time-serial transcriptome profiling in multiple tissues reveals candidate biomarkers of PRRSV susceptibility
 Sang-Hyeop Lee, Byeonghwi Lim, Young-Jun Seo, and Jun-Mo Kim
- PF25014 Effect of bta-mir-375 on multiple gene associated with bovine adipogenesis in Korean native cattle
 김다현, 유은정, 태가현, 이윤석
- PF25015 Development of intelligent ventilation control for second-generation smart poultry farms using computational fluid dynamics
 이충수, 홍인표, 전주민, 오경환, 이성대, 김은중, 노상건, 이홍구, 이윤석
- PF25016 Insights into LSDV kinase inhibition via computational screening and simulation-based binding analysis
 Tae-Hong Min, Do-Young Kim, Seung-Hoon Lee, and Jun-Mo Kim
- PF25017 Species-specific molecular dynamics of dexamethasone (DEX) binding to pregnane x receptor (PXR): toward precision veterinary drug design
 Muhannad Dehni, Hilal Tayara, Chul Park, Ki-Duk Song
- PF25018 Mechanistic insights into mepthylidinocap-induced cytotoxicity in porcine trophectoderm, and endometrial epithelial cells
 Wonhyoung Park, Whasun Lim, Gwonhwa Song
- PF25019 Analysis of morphology of skeletal muscle tissue of Hanwoo beef cross-sectioned from storage period of 0, 1, 3, 5, 7, and 9 days
 Bosung Kim, Minjae Shin, Yuna Jung, Yoonji Shin, Sungkown Park
- PF25020 The effects of patulin on quail muscle cells and the potential for microbiome-mediated recovery
 JeongWoong Park, Seungwoo Son, Dohyun Kim, Ji-suk Yu, Donghyun Shin, Hak Kyo Lee

- PF25021 Comparative analysis of the intestinal microbiome in cats and pigs: implications for host-microbial interactions
..... Woong Ji Lee, Eun Ryul Oh, Sunjoon Lee, Sun-Bong Choi, Hyun-Jun Jang, Yangseon Kim
- PF25022 Alterations in muscle fiber composition in the *semitendinosus* muscle of myostatin knockout chickens
..... Si Eun Kim, Heesu Jeong, Soo Hyun Kim, Ismail Shaleh, Tae Sub Park
- PF25023 Growth potential of Hanwoo muscle satellite cells based on genomic estimated breeding value (GEBV)
..... Bohye Park, Donghun Kang, Nayoon Park, Kiyong Chung
- PF25024 Comparative analysis of muscle satellite cells characteristics in Hanwoo
..... Bohye Park, Kiyong Chung, Donghun Kang, Nayoon Park
- PF25025 Comparative microRNA profiling associated with intramuscular fat deposition in Korean native cattle with high and low marbling scores
..... Hong I, Lee Y
- PF25026 Effect of a feed additive on methane emission reduction in Korean native cattle using ANKOM system
..... Jeon J, Hong I, Baek S, Kim H, Kang S, and Lee Y

제7발표분야 : 동물복지, 행동 및 기타

- PG25001 Automatic behavior monitoring of pigs grown under different environmental conditions using computer vision
..... Eddiemar B. Lagua, Hong-Seok Mun, Md Sharifuzzaman, Md Kamrul Hasan, Young-Hwa Kim and Chul-Ju Yang
- PG25002 Correlation between oxidative stress in hyperprolific sows and behavioural factors associated with piglet crushing in loose housing systems
..... Jiye Ryu, Yujin Jung, Minu Ju, Jinhyeon Yun
- PG25003 Transcriptomic and meat quality responses to stunning methods in broilers: Insights into animal welfare
..... 함창현, 이승훈, 임석원, 임치웅, 장민재, 임병휘, 석민기, 임세진, 김찬호, 전중환, 김준모
- PG25004 AAI활용에 따른 도우미견의 타액 내 cortisol 및 oxytocin 농도 비교 분석
..... 유금주, 양가영
- PG25005 Effects of feeding speed control on reproductive and skin lesion incidence in group-housing gestation sows
..... Jo Eun Kim, Ye Jin Min, Yo Han Choi, Ji Hwan Lee, Hyun Ju Park, Yong Dae Jeong, Soo Jin Sa
- PG25006 A study on the standardization of animal welfare certification protocols for broiler and laying hen
..... Sinae Cheon, Soohee Leem, Yeonhwa Park, Deukshin Lee and Seongeun Jang
- PG25007 Evaluation of postpartum stress by measuring milk cortisol concentration of holstein dairy cows and its relationship to prepartum calf gender
..... Mohammad Ataallahi, Geun-Woo Park, Dong-Woo Kim, Geon-Hee Han, Tae-Rim Noh, Jong-Sik Lee and Kyu-Hyun Park
- PG25008 자동급이 군사사육시스템에서의 임신돈 서열에 따른 섭식행동 변화
..... 김수미, 천시내, 임세진, 김찬호, 양가영, 김조은, 최요한, 전중환
- PG25009 치유도우미견 선발을 위한 기질 평가 유형별 타액 코르티솔 변화 비교 연구
..... 양가영, 유금주, 김수미, 임세진, 김찬호, 전중환
- PG25010 반려견과의 교감을 활용한 동물교감치유 활동이 활동적 은퇴자의 생리·심리 지표에 미치는 영향
..... 양가영, 유금주, 김수미, 임세진, 김찬호, 전중환, 김경희, 지상민, 문지원, 김소현, 이재신

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발행인 : (사) 한국축산학회
(06367) 서울특별시 강남구 광평로56길 8-13, 1618호
Tel. 02-562-0377 / Fax. 02-562-0379
E-mail: ksas1956@ksas1956.or.kr

인쇄처 : 거목문화사/거목인포
(04549) 서울특별시 중구 을지로 148, 609호
(을지로 3가, 중앙테크플라자)
Tel. 02-2277-3324 / Fax. 02-2277-3390
Email: guhmok@guhmok.com
