

Institute of Animal Resources

Welfare and Sustainable Production



IAR
Institute of Animal Resources

KNU 강원대학교
KANGWON NATIONAL UNIVERSITY

Institute of Animal Resources at Kangwon National University was established in the year 1988 to activate the scientific research related to animal science and to increase its efficiency. The institute continuously pursues to support the development of animal industry through basic and applied researches, to facilitate the creative experiment and practice for students to train them as technical experts, and to make a contribution to the development of the community by strengthening the educational- industrial complex. The other goals of the institute are to conduct researches on the animal resources in North Korea thereby preparing for unification, and to introduce the advanced research skills, hosting a domestic and international scientific exchange and seminars.



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Major function and extension service

- Hosting of seminar and symposium for international art and science exchange
- Publication of research results in the form of periodic collection
- Social service through educational and industrial cooperation
- Support for research and education using the experimental tools and facilities
- Contribution to the activation of regional economy through analytical support for relevant industries
- Improvement of the inherited character of Hanwoo, Korean native cattle





Researcher Name	e-mail / Phone number	Research Work	Major Field of Study
Chae, Byung-Jo (Ph. D., Seoul National Univ.)	bjchae@kangwon.ac.kr 82-33-250-8616	<ul style="list-style-type: none"> - Lysine restriction and realimentation affected growth, blood profiles and expression of genes related to protein and fat metabolism in weaned pigs. - Effects of metabolizable energy and lysine restrictions on growth performance, blood profiles, and expression on myostatin and leptin genes in broilers. 	- Nutritional Biotechnology
Goh, Yong-Gyun (Ph. D., Kangwon National Univ.)	yggo@kangwon.ac.kr 82-33-250-8632	<ul style="list-style-type: none"> - Effect of dietary ginseng leaf powder on growth performance of broiler chicks. - Effects of extrusion and fermentation of angelica gigas powder on growth performance of broiler chicks. 	- Animal Nutrition and Feed
Jhoo, Jin-Woo (Ph. D., Rutgers Univ.)	jjhoo@kangwon.ac.kr 82-33-250-8649	<ul style="list-style-type: none"> - Anti-inflammatory effects of purpurogallin carboxylic acid, an oxidation product of gallic acid in fermented tea. - Antioxidant activity of low molecular peptides derived from milk protein. 	- Bioactive Natural Products
Kim, Byoung-Wan (Ph. D., Univ. of Wisconsin-Madison)	bwkim@kangwon.ac.kr 82-33-250-8625	<ul style="list-style-type: none"> - Globotriaosylcer amide (Gb3) content in HeLa cells is correlated to Shiga toxin-induced cytotoxicity and Gb3 synthase expression. - Effect of dietary fermented fish waste on the digestion of feed and supply of unsaturated fatty acids including conjugated linoleic acid in cattles. 	- Grass and Forage
Kim, Gur-Yoo (Ph. D., Hokkaido Univ.)	gykim@kangwon.ac.kr 82-33-250-8647	<ul style="list-style-type: none"> - Effect of sugar alcohol on the viability of lactic acid bacteria and quality characteristics during frozen storage of yoghurt. - Effects of drinking reverse osmosis treated deep sea water on growth performance and immune response in broiler chickens. 	- Dairy Chemistry, Functional Dairy Products
Kim, Jeong-Dae (Ph. D., Univ. Pierre et Marie Curie)	jdekim@kangwon.ac.kr 82-33-250-8634	<ul style="list-style-type: none"> - Glycemic response and serological changes of starlet sturgeon. - Approach to prevent water pollution from marine fish farming. 	- Fish and Shrimp Nutrition - Aquafeed Development
Kim, Jong- Bok (Ph. D., Seoul National Univ.)	jbkim@kangwon.ac.kr 82-33-250-8624	<ul style="list-style-type: none"> - Genetic relationship between carcass traits and carcass price of Korean cattle. - The influence of carcass traits on carcass price in mature Hanwoo cow. 	- Animal Breeding
Kwon, Ill-Kyong (Ph. D., Seoul National Univ.)	ikkwon@kangwon.ac.kr 82-33-250-8644	<ul style="list-style-type: none"> - Evaluation of multi-microbial probiotics produced by submerged liquid and soild substrate fermentation methods in broilers. - Effect of tannic acid supplementation on growth performance, blood hematology, iron status and faecal microflora in weanling pigs. 	- Food Microbiology
Lee, Jeong-Koo (Ph. D., Seoul National Univ.)	jklee@kangwon.ac.kr 82-33-250-8614	<ul style="list-style-type: none"> - Evaluation of genetic ability for meat quality in Hanwoo cow. - Estimation of genetic parameters for litter size and sex ratio in Yorkshire and Landrace pigs. 	- Animal Genetics and Breeding
Lee, Seung-Tae (Ph. D., Seoul National Univ.)	stlee76@kangwon.ac.kr 82-33-250-8638	<ul style="list-style-type: none"> - Engineering integrin signaling for promoting embryonic stem cell self-renewal in a precisely defined niche. - Establishment of autologous embryonic stem cells derived from preantral follicle culture and oocyte parthenogenesis. 	- Developmental Engineering - Stem Cell Biology
Lee, Sung-Jin (Ph. D., Seoul National Univ.)	sjlee@kangwon.ac.kr 82-33-250-8636	<ul style="list-style-type: none"> - Study on genetic characteristics of Korean native black pig. - Evaluation of natural products for osteoarthritis and stem cell differentiation. 	- Animal Molecular Genetics - Molecular and Cell Biology
Lee, Sung-Ki (Ph. D., Seoul National Univ.)	skilee@kangwon.ac.kr 82-33-250-8646	<ul style="list-style-type: none"> - Combined effects of modified atmosphere packaging and organic acid salts (sodium acetate and calcium lactate) on the quality and shelf-life of Hanwoo ground beef patties. - The quality characteristics of <i>M. longissimus</i> from Hanwoo (Korean cattle) steer with different raising altitudes and slaughter seasons. 	- Meat Science - Egg Science



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Lohakare, Jayant Dnyaneshwar (Ph. D., Indian Veterinary Research Institute)	Jayant@kangwon.ac.kr 82-33-250-8633	- Effect of long-term fluoride exposure on growth, nutrient utilization and fluoride kinetics of calves fed graded levels of dietary protein. - Effects of limited concentrate feeding on growth and blood and serum variables, and on digestibility and gene expression of hepatic gluconeogenic enzymes in dairy calves.	- Nutritional Biotechnology and Nutrigenomics
Ohh, Sang-Jip (Ph. D., Kansas State Univ.)	sjohh@kangwon.ac.kr 82-33-250-8631	- Effect of gamma irradiation on nutrient digestibility in SPF mini-pig. - Meta-analysis to draw the appropriate regimen of enzyme and probiotic supplementation to pigs and chicken diets.	- Feed Processing Technology - Feed Biotechnology
Park, Byung-Sung (Ph. D., Kangwon National Univ.)	bspark@kangwon.ac.kr 82-33-250-8615	- Effect of dietary microencapsulated inulin on carcass characteristics and growth performance in broiler chickens. - Antibacterial activity of house fly maggot extracts against MRSA (Methicillin-resistant <i>Staphylococcus aureus</i>) and VRE (Vancomycin-resistant <i>enterococci</i>).	- Lipid Biotechnology - Biofunctional Materials & Mechanism
Park, Choon-Keun (Ph. D., Okayama Univ.)	parkck@kangwon.ac.kr 82-33-250-8627	- Studies on investigation and change of protein factors in porcine follicular fluids. - The analysis of seminal plasma proteins by two-dimensional polyacrylamide gel electrophoresis (2-DE) in Hanwoo (Korean native cattle).	- Protein Analysis in Reproductive Cells - Sexing of Sperm and Embryos in Animals
Pak, Jae-In (Ph. D., Hokkaido Univ.)	jipak@kangwon.ac.kr 82-33-250-8648	- Evaluation of multi-microbial probiotics produced by submerged liquid and solid substrate fermentation methods in broilers. - Comparative efficacy of different soy protein sources on growth performance, nutrient digestibility and intestinal morphology in weaned pigs.	- Animal Byproduct Utilization
Ra, Chang-Six (Ph. D., Univ. of British Columbia)	changsix@kangwon.ac.kr 82-33-250-8618	- Biological nitrogen removal with a real-time control strategy using moving slope changes of pH (mV)-and OPR-time profiles. - Recovery of struvite from animal wastewater and its nutrient leaching loss in soil.	- Livestock Environment - Animal Manure Management - Greenhouse Gas in Livestock Sector
Shin, Jong- Suh (Ph. D., Kangwon National Univ.)	jsshin@kangwon.ac.kr 82-33-250-8628	- Effects of rumen protected choline on in vitro ruminal fermentation and milk production and its composition in lactating cows. - Change in serum metabolites and growth characteristics of Korean native steers fed alcohol-fermented feeds.	- Animal Nutritional Physiology - Beef Cattle Science - Dairy Cattle Science
Singh, Naresh Kumar (Ph. D., Indian Veterinary Research Institute)	singh@kangwon.ac.kr 82-33-250-8637	- Oxidative stress and antioxidant status during transition period in dairy cows. - Relationship of somatic cell count and mastitis: An overview.	- Stem Cell Biology and Regenerative Medicine
Song, Young-Han (Ph. D., Kyushu Univ.)	yhsong@kangwon.ac.kr 82-33-250-8617	- Growth, behavior and carcass traits of fattening Hanwoo (Korean native cattle) steers managed in different group sizes. - Hanwoo (Guide for consulting)	- Animal Behavior - Ultrasound Evaluation
Sung, Kyung-Il (Ph. D., Hokkaido Univ.)	kisung@kangwon.ac.kr 82-33-250-8635	- Effect of dietary fermented fish waste on the digestion of feed and supply of unsaturated fatty acid including conjugated linoleic acid in cattles. - Development of mapping system for production of high quality forage.	- Grass and Forage
Yang, Boo-Keun (Ph. D., Kangwon National Univ.)	bkyang@kangwon.ac.kr 82-33-250-8623	- Ameliorative effects of melatonin against hydrogen peroxide-induced oxidative stress on boar sperm characteristics and subsequent <i>in vitro</i> embryo development. - Antioxidative effects of astaxantin against nitric oxide-induced oxidative stress and gene expression in bovine oviduct epithelial cell and the developmental competence of bovine IVM/IVF embryos.	- Animal Reproductive Physiology
Yuh, In-Suh (Ph. D., Univ. of Wisconsin-Madison)	insuhuh@kangwon.ac.kr 82-33-250-8626	- Lysophosphatidic acid (LPA) stimulates mouse mammary epithelial cell growth. - Adiponectin regulation in mammary tissue.	- Animal Endocrinology



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