

CURRICULUM VITAE

DONG UK AHN

Professor

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Education

PhD 1988 University of Wisconsin-Madison, Poultry Science, and Meat & Animal Science
MS 1983 Seoul National University, Korea, Animal Science
BS 1978 Seoul National University, Korea, Animal Science

Professional Experience

- SNU-WCU Professor, Major in Biomodulation, Seoul National University, Korea. March 1, 2009 - Aug. 2013.
- The Korean Federation of Science and Technology Societies' Visiting Professor, Department of Food and Animal Biotechnology, Seoul National University, May 1, 2006- Oct. 2006.
- Professor, Department of Animal Science, Iowa State University, 2005 - present.
- Associate Professor, Department of Animal Science, Iowa State University, 2000 - 2005.
- Honorary Research Scientist Abroad, Korea Livestock Research Institute, 2001- present.
- Assistant Professor, Department of Animal Science, Iowa State University, 1994 - 2000.
- Session Lecturer, Animal Science Department, University of Alberta, Canada, 1993
- Postdoctoral Research Associate, Departments of Animal Science and Food Science, University of Alberta, Canada, 1990-1994
- Postdoctoral Research Associate, Animal Science Department, University of Saskatchewan, Canada, 1988-1990
- Research Assistant, Poultry Science Department, University of Wisconsin-Madison, 1983-1988
- Teaching Assistant, College of Agriculture, Korea Correspondence College, Korea, 1982-1983
- Production Manager, ShinChon Feed Co., Korea, 1978-1981

Research/Work Areas

- Sequential separation of value-added components, and the modification and application of value-added components separated from egg
- Protein oxidation and PSE in poultry
- Effect of processing, storage and cooking on omega-3 fatty acids, lutein and choline in egg products
- Development of functional bioactive peptides using phosvitin from egg yolk
- Mechanisms and prevention of off-odor production, lipid oxidation, and color changes in

irradiated raw and cooked meat

- Effect of dietary ingredients (CLA, omega-3 fatty acids, vitamin E etc.) on the performance of animal and the quality of meat and eggs
- Pro- and antioxidant mechanisms in meat and meat products
- Mechanisms of color changes and characterization of color compounds in uncured cooked poultry meat products

Teaching Activities

- Egg Science and Technology
- Protein Science
- Advanced Meat Science (ANS570)
- Food Science (FSHN613)
- Biomodulation and Protein
- Neobiomaterials and Bioregulation
- Food Proteins

Service and Leadership Roles

- Editorial board and an editor: Antioxidants, Food Research International, Journal of Animal Science and Technology, Food Engineering Progress, Radiation Physics and Chemistry, Journal of Nutrition and Food Sciences, Korean Journal of Food Science and Animal Resources, Food Science and Biotechnology Journal, Poultry Science.
- A review panel, external reviewer and an examiner of grant proposals, promotion documents, and Ph.D. thesis for numerous national and international organizations.
- Chair of scientific conferences, including Egg Processing and Turkey Processing Workshops, Food Science and Technology Symposium, International Conference of Meat Science and Technology (ICOMST), Poultry Products and Processing section (Poultry Science Association), and Egg Processors symposium (Iowa Egg Council)
- Councilor of Food Science and Technology (KSEA), Delegate to the US-Republic of Korea Joint Standing Committee on Nuclear Energy Cooperation; Coordinator/organizer of Ensminger School (International Education program) in Korea
- Board of Directors of various Iowa Poultry Organizations
- A peer reviewer for over 35 national and international scientific journals.

Awards, Honors, and Recognition

- The Gamma Sigma Delta University Mission Award - International, 2021
- American Egg Board Research Award, Poultry Science Association, 2015.
- Award in Meat Research, American Society of Animal Science, 2013.
- The Evonic Degussa Award for the achievement in Poultry Science, Poultry Science Association, 2011.
- ISU Animal Industry Report Award, Iowa State University, 2004.
- Award for Achievement by an Organizational Team (ISU Extension), ISU, 2004.
- American Egg Board Research Award, Poultry Science Association, 2000.

Publications (Published a total of 323 refereed journal articles, including 25 book chapters).