

# Occupational health and safety in agriculture : Challenges and opportunities

## SYMPOSIUM

The purpose of this symposium is to seek communication and international cooperation among international researchers in agricultural safety and health research and development. Agriculture is internationally recognized as one of the three major occupational injury and disease-prone industries. However, in most countries, policies, research, and technology development for agricultural safety and health are very rare, being excluded from the national occupational safety and health system. In this situation, international solidarity and cooperation of experts related to agricultural safety and health, which are relatively few compared to other industries, are essential. Through this symposium, we will share safety and health issues and solutions in the agricultural sector and promote international cooperation.

### Development Direction for Agricultural Health and Safety in South Korea

Kyungran Kim (Rural Development Administration, Korea, Republic of)

### Comparison of overall immunity levels among workers at grape orchard, rose greenhouse, and open-field onion farm

Yong Heo (Daegu Catholic University, Korea, Republic of)

### Application and development of Korea ergonomic checklist for farmers (AWBA)

Yongku Kong (Sungkyunkwan university, Korea, Republic of)

### Hazard exposure assessment and development of database on hazard exposure for farmers

Hyocher Kim (Rural development Administration, Korea, Republic of)

## MODERATOR



Yunkeun Lee

Dr. Yunkeun Lee is a Director of Wonjin Institute for Occupational and Environmental Health in Seoul, Korea. He received his Ph.D. in Industrial Health from the Catholic University Graduate School in Korea. His main research area is risk assessment in the workplace and agricultural work environment. In particular, he has done many studies on ergonomic evaluation and job improvement related to musculoskeletal disorders. Recently, he has been free supporting workers for the recognition and compensation of occupational cancer.

## SPEAKERS



Kyungran Kim

I am the team leader of the Farmer Safety and Health Team at the Rural Development Administration. Farmers who are not workers cannot receive various services to prevent industrial accidents. The Farmer's Safety and Health Team is conducting research on institutionalization of occupational safety and health for farmers, production of statistics on industrial accidents of farmers, research on prevention of agricultural work accidents, research on the development of smart farm work safety technology, and development of agricultural work safety and health services.



Yong Heo

Professor Yong Heo is Ph.D. and DVM, and professor at the Dept. Occupational Health, Daegu Catholic University, Republic of Korea. The Ph.D. degree was achieved with major of immunotoxicology from State University of New York at Albany and DVM from Seoul National University College of veterinary Medicine. One of major research activities has been to evaluate immune alterations demonstrated at agricultural farmers including animal husbandry workers and farmers involved with orchard works or green house farming. Association of fine particle dust exposure with occurrence of immune abnormalities including respiratory allergic diseases has been studied over 20 years.



Yongku Kong

Yong-Ku Kong who is a professor in department of Industrial Engineering, Sungkyunkwan University, has completed his PhD from The Pennsylvania State University, USA and worked for NIOSH (National Institute for Occupational Safety and Health) in Cincinnati, OH, USA as an engineering researcher. He is the vice-president of ESK and is serving as an editor-in-chief of JESK (Journal of ESK).



Hyocher Kim

#### [ CURRENT POSITION ]

- Researcher of Agricultural Safety and Disaster Prevention Division, Rural Development Administration

#### [ Education ]

- June 2021 Doctor of Health Sciences, University of Eastern Finland
- February 2002 Master of Public Health, Seoul National University
- February 1993 Bachelor of Engineering, University of Seoul

#### [ Work Experience ]

- 2002 - Present Agricultural Researcher, Agricultural Health and Safety Lab, Rural Development Administration