



영남대학교  
Yeungnam University

9<sup>th</sup>China-Japan-Korea-USAJointSymposium

## **The 9<sup>th</sup>China-Japan-Korea-USA Joint Symposium**

# **International Conference on Sustainable Agriculture and Biotechnology 2017**

May 16 (Tue) – May 21 (Sun)

Hosted by College of Life and Applied Science  
Yeungnam University  
Republic of Korea

Co-organized by

College of Life and Applied Sciences, YU

Institute of Resources Development, YU

Institute of Biotechnology, YU

Rural Development Institute, YU

Hanwoo Research Institute, YU

Institute of Soybean Fermentation & Food Research, YU



## Symposium Schedules

5.17(Wed)	
09:30	Registration
10:00	Opening Ceremony at auditorium (F29-108)(Prof. Youngjae Kim, YU) - Opening Address (Yongho Khang, Dean, YU) - Welcoming Address (Vice President of YU) (Dr. DP Lee, Former Minister of Agriculture, Food, and Rural Affairs)
10:20	Introduction of each university - CAU (Prof. Li Minzan), HU (Prof. Yukuhara Fukushi), ISU (Prof. Richard C. Schultz), YAU (Prof. Zhang Naiming), YU (Prof. Keunho Kim)
11:30	Lunch (“Cafeteria of Liberal Arts” in YU Campus)
14:00	Symposium Presentations at YB room (F27-202) Session I (7 presentations): - <b>Sustainable Approach for Management of Plant Growth</b>
18:00	Welcoming party : Banquet (Buffet)
5.18(Thu)	
10:00	Symposium Presentations at YB room (F27-202) Session II (4 presentations) - <b>Agro-Ecology, Economics and Global Agriculture</b>
11:45	Lunch(“Cafeteria of Welly&” in YU Campus)
14:00	Symposium Presentations at YB room (F27-202) Session III (5 presentations) at YB room (F27-202) - <b>Animal and Dairy Science for the Future</b>
16:30	Poster Session
17:00	Meeting for the next conference at CAU (Seminar room, F27-108) - Co-chaired by YU (Prof. Yongsun Moon) and CAU (Prof. Minzan Li)



## Symposium Programs for the Conference of ICSAB 2017

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### Session I : Sustainable Approach for Management of Plant Growth

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○ Chairman : Sang-Gon Suh (YU, Korea)

May 17 14:00	<b>1) Metabolic engineering of plants for the production of taxadiene</b> Md. Mohidul Hasan, Mi-Jeong Cha, <u>Kwang-Hyun Baek</u> (YU, Korea)
14:30	<b>2) Anti-ice nucleation substances for prevention of frost damage to plants”</b> <u>Yukuhara Fukushi</u> (HU, Japan)
15:00	<b>3) Effect of straw biochar on soil phosphorus use and loss and cabbage grown in the greenhouse in Dianchi Lake Basin</b> Bao Li, Kang Hongyu, <u>Zhang Naiming</u> , Lin Jian, Kang Rifeng (YAU, China)
15:30	<b>4) Diversity Planting of Maize and its Ecological Control on Pest: A case study of maize/sugarcane intercropping on the control of Asian corn borer, <i>Ostrinia furnacalis</i></b> <u>Chen Bin</u> (YAU, China)
16:00	<b>Coffee break</b>
○ Chairman : Richard D. Schultz (ISU, USA)	
16:15	<b>5) Manipulation of Growth and Development in Floricultural Crops Using Artificial Lighting</b> <u>Wook Oh</u> (YU, Korea)
16:45	<b>6) Flexibility of Travel Decision Making and Its Determinants</b> <u>DongJin Kim</u> , Kwangsoo Park, Hyun Jung Kim (YU, Korea)
17:15	<b>7) Nature phobia: Wilderness and other shades of sustainable nature experience in urban green spaces – An international comparison between Germany and South Korea</b> <u>Ju-Hyoung Lee</u> , Sook-Jeong Lee (YU, Korea)



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## Session II : Agro-Ecology, Economics and Global Agriculture

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○ Chairman : Haruto Kumura (HU, Japan)

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May 18 10:00	<b>8) Linking Agroecology &amp; Economics: A Spatially-targeted, Market-based Approach to Enhancing Water Quality in Agricultural Landscapes</b> <u>Emily K. Zimmerman</u> , Lisa A. Schulte Moore, John C. Tyndall (ISU, USA)
10:30	<b>9) Development and Testing of a Portable Soil Electrical Conductivity Instrument</b> Zhang Junyi, Pei Xiaoshuai, Sun Hong, <u>Li Minzan</u> , Yang Wei, Zhou Peng (CAU, China)
11:00	<b>10) Research on the vegetable quality safety traceability system based on Internet of things and Biosensor</b> <u>Guo Zhao</u> , Hui Wang, Gang Liu (CAU, China)
11:45	<b>Lunch</b>

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## Session III : Animal and Dairy Sciences for the Future

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○ Chairman : Naiming Zhang (YAU, China)

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14:00	<b>8) Application of solid culture products from edible filamentous fungi for dairy use</b> <u>Haruto Kumura</u> (HU, Japan)
14:30	<b>9) Development of an immunoliposome-based immunomagnetic concentration and separation assay for the detection of Cronobacter sakazakii in powdered infant formula</b> <u>Xinjie Song</u> , Myunghee Kim (YU, Korea)
15:00	<b>10) Dynamics of Musculoskeletal System under Changing Shades of Diseases</b> Arif Tasleem Jan, <u>Inho Choi</u> (YU, Korea)
15:30	<b>Coffee break</b>
15:50	<b>11) Genetic improvement of livestock species using genomic information</b> <u>Jong-Joo Kim</u> (YU, Korea)
16:20	<b>12) Hanwoo Beef; the Profound and Mysterious Tastes</b> <u>Chang-Bon Choi</u> (YU, Korea)
16:50	<b>Poster session</b>

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## Presentations in Poster Session

### **P1. Ploughing increases nitrate leaching from poorly drained grassland**

Kaho Yasuda, Arata Nagatake, Masahito Kawai, Ryusuke Hatano (HU)

### **P2. Effects of fertilizer components of biochar on plant growth**

Shoki Ochiai, Yoichi Shibata, Kazunori Iwabuchi, Takanori Itoh, Toshihiro Watanabe, Mitsuru Osaki (HU)

### **P3. Inactivation of Pathogenic Bacteria in Ice Using a UVC Light-Emitting Diode**

Suguru Murashita, Shuso Kawamura, Shigenobu Koseki (HU)

### **P4. Positive regulatory role of sound vibration treatment in *Arabidopsis thaliana* against *Botrytis cinerea* infection**

Ritesh Ghosh, Bosung Choi, Mayank Anand Gururani, Gnanendra Shanmugam, Junhyun Jeon, Jonggeun Kim, Soo-Chul Park, Mi-Jeong Jeong, Kyung-Hwan Han, Dong-Won Bae, Hanhong Bae (YU)

### **P5. Vegetative Growth of *Phalaenopsis* and *Doritaenopsis* Plants as Affected by Nutrient Solution Supply Method in a Closed Plant Factory System**

Jin-Hee Lee, Sang-Yoon Min, Jiseon Kim, Suhyun Park, Wook Oh (YU)

### **P6. Growth and Physiological Responses of Petunia as Influenced by Light Conditions in Greenhouses Covered with Dye-sensitized Solar Cells**

Suhyun Park, Jiseon Kim, Jin-Hee Lee, Wook Oh (YU)

### **P7. Comparison of contents of stilbene compounds and related gene expressions among Korean wild grapes**

Soon-Eun Kwon, Soon-Young Ahn, Seon-Ae Kim, Young-Sik Park, Hae-Keun Yun (YU)

### **P8. Amelioration of bile acid-induced disorders by ingestion of skimmed-milk cheese supplemented with *Monascus ruber***

Yutaro Takahashi, Dongguen Lee, Yeonmi Lee, Gahyun Joe, Yoshie Kamo, Koji Tada, Shouta Hori, Akari Takeuchi, Yasutake Tanaka, Hidehisa Shimizu, Toru Hayakawa, Jun-ichi Wakamatsu, Hiroshi Hara, Satoshi Ishizuka, Haruto Kumura (YU)

### **P9. Inhibitory effects of *sigumjang* extract on adipogenesis and lipogenesis during 3T3-L1 differentiation**

Hojeong Jeong, Sangdon Lee, Dongyeop Kim, Gi-DongHan(YU)

### **P10. Anti-obesity effects of fermented persimmon extracts in 3T3-L1 cells**

Jinyoung Jung, Gi-Dong Han (YU)



**P11. Methanol/Chloroform fraction from Ethyl acetate extracts of persimmon reduced forskolin-induced pigmentation in melanoma cells**

Hyo-Jin Song, Hojeong Jeong, Hyo-Jung Kim, Gi-Dong Han (YU)

**P12. Study on Marketing Development for Active Promotion of Healing Forest -Focus on Jangseong Healing Forest**

Doyeon Kim, Bu-Gi Joun, Bo-wook Seo, Ju-Hyung Lee (YU)

**P13. Adipogenic effect of tetranectin and regulation of adipocyte differentiation**

Jihyun Park, Younhwa Byun, Jihoe Kim (YU)