

2nd Korea-Japan Joint Symposium and Graduate Students Forum

September 6, 2011

Wasung Hall, College of Agriculture & Life Sciences, KNU, Daegu, Korea

Food & Bio-Industry Research Institute, KNU
College of Agriculture & Life Sciences, KNU
Faculty of Agriculture and Graduate School of Science & Technology, Shizuoka University
School of Food Science & Biotechnology, KNU
Institute of Fermentation Biotechnology, KNU

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<Time Table>

	session I <Bio>		Session II <Nano>	
09:30–09:50	Resistration			
09:50–10:00	Opening Ceremony			
10:00–10:20	Dr. Enoch Y. Park	Chair: Dr. Choi Yong–Hee	Dr. Kagawa Keiichiro	Chair: Dr. Shin Jang–Kyoo
10:20–10:40	Dr. Morita Tatsuya		Dr. Shin Jang–Kyoo	
10:40–11:00	Dr. Kang Nam–Ju		Student Session (4 students x 5 min.)	
11:00–11:20	Coffee Break			
11:20–11:40	Dr. Hino Shingo	Chair: Dr.Chung Shin–Kyo	Student Session (4 students x 5 min.)	
11:40–12:00	Dr. Deo Vipin Kumar			
12:00–12:20	Dr. Susanne Baldermann			
12:20–13:30	Lunch in KNU			
13:30–13:50	Dr. Park Chang–Soo	Chair: Dr. Park Heui–Dong	IT college tour	
13:50–14:30	Student Session (8 students x 5 min.)			
14:30–15:05	Student Session (7 students x 5min.)			
15:05–16:00	Poster Session			

Program

September 6, 2011

- 9:30–9:50 Registration (Wasung Hall, College of Agriculture & Life Sciences, Kyungpook National University)
- 9:50–10:00 Opening Ceremony
Opening remark : Moon Kwang–Deog (Director of Food & Bio–Industry Research Institute)
Welcome address : Hamm In–Suk (President, Kyungpook National University)
Visitor's response address : Watanabe Naoharu (Prof. Shizuoka University)

Session I

Chair: Dr. Choi Yong–Hee (Prof. Kyungpook National University)

- 10:00–10:20 Dr. Park Enoch Y. (Prof. Shizuoka University)
Cooperation between Industry and Shizuoka University for the Future Creation
- 10:20–10:40 Dr. Morita Tatsuya (Prof. Shizuoka University)
Novel Aspects of Oligosaccharides
- 10:40–11:00 Dr. Kang Nam–Ju (Prof. Kyungpook National University)
Polyphenols as Small Molecular Inhibitors of Signaling Cascades in Carcinogenesis

Chair: Dr. Chung Shin–Kyo (Prof. Kyungpook National University)

- 11:20–11:40 Dr. Hino Shingo (Prof. Shizuoka University)
 β –Glucan and Its Implication for Health Benefits: where is it incorporated from?
- 11:40–12:00 Dr. Deo Vipin Kumar (Prof. Shizuoka University)
VLPs a New Display Technology for Vaccination and Drug Delivery
- 12:00–12:20 Dr. Susanne Baldermann (Prof. Shizuoka University)
In vivo Visualisation of Plant Volatile Compounds by Qdot Nanocrystal Conjugates

Chair: Dr. Park Heui–Dong (Prof. Kyungpook National University)

- 13:30–13:50 Dr. Park Chang–Soo (Prof. Daegu Catholic University)
Substrate Specificities of d–lyxose Isomerase from *Serratia Proteamaculans* for Rare Monosaccharides

Students Forum

- 13:50–14:30 Kanematsu Ayumi (Master Student, Shizuoka University)
Evaluation of The Synthetic Glycolipid Cluster
- Okazaki Mariko (Master Student, Shizuoka University)
Abscinazole-E, a Specific Inhibitor of ABA 8'-hydroxylase CYP707A
- Naiki Kumi (Master Student, Shizuoka University)
A Selective Inhibitor of P450 Enzymes Involved in Gibberellins Biosynthesis
- Kawahashi Tatsuya (Master Student, Shizuoka University)
Studies on The Flower-inducing Compounds in *L. Paucicostata* 151 Exposed to Drought Stress
- Matsuno Satoshi (Master Student, Shizuoka University)
Chemical Analysis of Iridoid Compounds in Olive Defense Against Insects
- Ogami Shoji (Master Student, Shizuoka University)
Functional Characterization of Iridoid Specific β -Glucosidase in Plant Chemical Defense
- Nakagawa Haruyuki (Master Student, Shizuoka University)
Evaluation of sLe^x Immobilized Nanoparticles Binding Behavior Against E-selectin
- Yui Megumi (Bachelor Student, Shizuoka University)
Construction of Virus-like Particles (VLPs) Tracking Cancer Cell
- 14:30–15:05 Iida Takuya (Bachelor Student, Shizuoka University)
Large scale Expression of H-Wnt3a by Using Silkworms and insect cells and Purification.
- Fushimi Keiji (Ph.D. Student, Shizuoka University)
Search for Growth Regulating Compounds Towards Plants from *Agrocybe praecox*
- WU Jing (Ph.D. Student, Shizuoka University)
Functional-food Constituents in *Strophariarugosoannulata*

Oizumi Takahiro (Bachelor Student, Shizuoka University)
Development of Inhibitor for Shigatoxin by Multivalent Glycan

Nakazawa Ryouken (Bachelor Student, Shizuoka University)
Expression of Rat α 2,3-Sialyltransferase ST3 in Silk Worm

Hwang In Wook (Ph.D. Student, Shizuoka University)
Expression of K_{ATP} Channel Proteins Using Silkworm

Oh Wonseok (Bachelor Student, Shizuoka University)
Sugar Immobilized Metal Nanoparticles

Session II

Chair: Dr. Shin Jang-Kyoo (Prof. Kyungpook National University)

- 10:00–10:20 Dr.Kagawa Keiichiro (Prof. Shizuoka University)
Biomedical Applications of CMOS Compound-eye Camera
- 10:20–10:40 Dr. Shin Jang-Kyoo (Prof. Kyungpook National University)
CMOS Vision Chip for Edge Detection

Students Forum

- 10:40–11:00 HAN Sangman (Ph.D. Student, Shizuoka University)
A CMOS Time-of-Flight Range Image Sensor Using Draining Only Modulation Structure
- Jun Sung Wook (Ph.D. Student, Shizuoka University)
Design of Digitally Assisted Pipeline ADC Using Incomplete Settling Error Correction
- Tatematsu Shigeki (Master Student, Shizuoka University)
Basic study of Remote Sterilization Effect by Using Atmospheric Microplasma
- Seo Min Woong (Ph.D. Student, Shizuoka University)
Low Noise High Dynamic Range CMOS Image Sensor with Folding-Integration/Cyclic ADCs

11:20–11:40 Jo Sung Hyun (Ph.D. Student, Kyungpook National University)
Dual Sampling–Based CMOS Active Pixel Sensor with a Novel Correlated
Double Sampling Circuit

Lee Sang Hoon (Ph.D. Student, Kyungpook National University)
Modified Single–Slope A/D Converter for CMOS Image Sensor System

Bae Myung Han (Master Student, Kyungpook National University)
Dynamic Range Extension of a CMOS Active Pixel Sensor with a
Gate/Body–Tied PMOSFET–Type Photodetector Using a Feedback Structure

Jung Joon Taek (Master Student, Kyungpook National University)
A High–Sensitivity Gate/Body–Tied PMOSFET–Type Photodetector with an
Overlapping Control Gate

Poster Session

- Physicochemical properties of ice wines using freeze–concentrated juice of domestic Campbell Early and Muscat Baily A grapes.
A–Rong LEE², Young–Ah HONG¹, Yoon–Jung CHOI¹, Seon–A PARK¹,
Dong–Hyun KIM² and Heui–Dong PARK*¹
- Fermentation characteristics of an ice cider using freeze–concentrated *Fuji* apple juice by commercial wine yeasts
Yoon–Jung CHOI¹, Young–Ah HONG¹, A–Rong LEE², Seon–A PARK¹,
Dong–Hyun KIM², Choon–Bal YU³ and Heui–Dong PARK*¹
- The Anti–inflammation Effects of Enzyme–aid Extracted Unripe Apple Polyphenols (AAP)
Young–Il Kim, Hu–Zhe Zheng¹, Sang–Han Lee, and Shin–Kyo Chung
- The Antioxidant Functional Fermented Juice from Daebong Persimmon Peels
In–Wook Hwang, Seo–Jin Kang, Eui–Jin Kim, Shin–Kyo Chung
- Anti–oxidant and anti–inflammation effect of *Perillafrutescens*L.
Hyeong–U Son*, Hyun–Jin Lee, Si–Rim Lee, Min–Ah Kim, Yong–Su Cha,
Myung–Sun Seo¹ and Sang–Han Lee
- Reduction of matrix metalloproteinase–9 expression by culture filtrate of *Paecilomycesfarinosus* J3
Hyun–Jin Lee*, Hyeong–U Son, Si–Rim Lee, Min–Ah Kim, Yong–Su Cha,
Sung–Hee Nam¹ and Sang–Han Lee

- Comparison of Anti-Adipogenesis Activity by Several Grape Extracts
Si-Rim Lee*, Hyeong-U Son, Hyun-Jin Lee, Min-Ah Kim,
Yong-Su Cha and Sang-Han Lee
- Optimization of Ultrasonic-Assisted Extraction Process for Phenolic Compounds from Chinese Quince (*Chaenomeles sinensis*) by Response Surface Methodology
Hui Teng, and Yong Hee Choi
- Improvement of Acid Hydrolysis Method to Extract Minerals for Thermoluminescence Analyses of Irradiated Dried Sea Foods
Hyun-Kyu Kyung, Hyuk Lee, Jae-Jun Ahn and Joong-Ho Kwon
- Inactivation of *Staphylococcus aureus* during storage of fresh-cut apples and lettuces pretreated with *Opuntia ficus-indica* extract
Young-Ho Seo¹, Sun-Young Kim, Jeong-Seok Cho, Do-Hee Kim,
Hye-Jin Choi and Kwang-Deok Moon*
- Effects of combined treatment with high CO₂ concentration and ascorbic acid on browning of fresh-cut 'Fuji' apples
Sun-Young Kim, Jeong-Seok Cho, Do-Hee Kim, Hye-Jin Choi and Kwang-Deog Moon*
- Detection of Irradiated Fresh Mushrooms by Different Physical Methods
Kashif Akram^a, Jae-Jun Ahn^a, Gui-Ran Kim^a, Ji-Hyun Lee^b,
Kyong-Su Kim^c, Joong-Ho Kwon^{a*}