The Fourth International Workshop on Regional Innovation Studies (IWRIS2012)

Tentative Technical Program

**Workshop Room**: Media Hall, University Research Hall II (1F), Mie University

Presentation Time: Oral Presentation: 10 min., Q&A: 5min., Total: 15 min.

Bell Guide: 8min., 10min., 14min.

1. **FIRST DAY : OCTOBER 11 (THURSDAY)**

**10:20 Opening Speech** Workshop General Chair : Shinji Tsuruoka

**Session 1 Bio-chemical science for Regional Innovation 10:30-12:00 (Master Course)**

**Session chairs:** Takashi Mishima, Takeo Yano

1. 10:30 Omics Analysis of Non-host Resistance to Blast Fungi in Rice

Ayano Odani1, Yuhko Kobayashi1, Shingo Urushizaki1, Issei Kobayashi1  
1 Graduate School of Regional Innovation Studies, Mie University

1. 10:45 Activation of Defense Pathways by Artificial Manipulation of Actin Cytoskeleton in Rice

Misa Maeda1, Yuhko Kobayashi1, Shingo Urushizaki1, Issei Kobayashi1  
1 Graduate School of Regional Innovation Studies, Mie University

1. 11:00 Identification and Functional Analysis of Novel Rice Blast Field Resistance Gene,  
    *OsXK2b*

Tatsuya Murakami1, Yuhko Kobayashi1, Issei Kobayashi1

1 Graduate School of Regional Innovation Studies, Mie University

(4) 11:15 Characterization of a Novel Carbohydrate-binding Module from *Paenibacillus*   
*xylaniclasticus*

Rina Shirasaki1 and Shuichi Karita1  
1 Graduate School of Regional Innovation Studies, Mie University

(5) 11:30 Detection of Specific Enzymes Produced by *Clostridium thermocellum* Cultured in GS Media Containing Ball-milled Agar Weed Residues

Masanari Saito1 and Shuichi Karita1  
1 Graduate School of Regional Innovation Studies, Mie University

(6) 11:45 Identification of Damaged DNA Regions Induced by Decreased DNA Methylation Levels

 ~DNA Methylation Defects might Induce Lifestyle Diseases or Genetic Diseases~

Takeshi Yoshimura1, Katsuzumi Okumura1  
1 Graduate School of Bioresources, Mie University

**Session 2 Invited Lectures for Regional Innovation 13:30-14:30**

**Session chairs:** Shinji Tsuruoka

(I-1) 13:30-14:00 Photocurable Hybrids: Alternative Process to Photopolymerization

M. B. Badrul-Haswan1, K. Arimitsu2

1Terengganu Advanced Technical Institute (TATI) University College, Terengganu, Malaysia

2 Faculty of Science and Technology, Tokyo University of Science, Chiba, Japan

(I-2)14:00-14:30 Research Directions for e-Book: A Malaysian Perspective

Syahrul Fahmy1, Wan Roslina1, Nurul Haslinda1

1Terengganu Advanced Technical Institute (TATI) University College, Terengganu, Malaysia

**Session 3 Bio Product and Chemical Evaluation for Regional Innovation 14:45-16:00 (Doctor Course and Social Researcher)**

**Session chairs:** Issei Kobayashi, Masataka Kubo

(7) 14:45 Ginger Hexane Extract Enhances Adipocyte Differentiation through its PPARγ  Ligand Activity

Hideaki Kaneoka1,2, Norihiro Nishimura3, Katsuzumi Okumura4, Kazuhiro Kagotani1,5  
 1 Tsuji H&B Laboratory, Mie University

2 Graduate School of Regional Innovation Studies, Mie University

3 Department of Translational Medical Science, Graduate School of Medicine, Mie University

4 Department of Life Science, Graduate School of Bioresources, Mie University

5 Tsuji Oil Mill Co. Ltd., Matsusaka, Mie

(8) 15:00 Cytokinin is Critical Determinant of Host Specificity to Blast Fungi

Shingo Urushizaki1, Yuhko Kobayashi1, Issei Kobayashi1

1 Graduate School of Regional Innovation Studies, Mie University

(9) 15:15 The Development Of New Beer By Using Locally Collected Natural Yeast

　Narihiro Suzuki1  
1 Graduate school of Regional Innovation Studies, Mie University

(10)15:30 Development of Simultaneous Extraction Methodology for Analysis of PCB and Organophosphorus Compounds

Yoshiro Maeshima1, Kenji Takeuchi1 and Yuko Maeshima1

1 Environmental Pollution Research & Analysis Center Co., Ltd., Mie

(11) 15:45 Quantitative Analysis of Platinum on Fiber Using Inductively Coupled   
Plasma Emission Method

Yasuaki Terada1, Takafumi Mizuno1  
1 Environmental Pollution Research & Analysis Center Co., Ltd, Mie

**Session 4 　Social System for Regional Innovation 16:15-17:15 (Doctor Course)**

**Session chairs:** Masaaki Bannai, Katsuya Kodama

(12) 16:15 High Loading Denitrification Treatment Process with Submerged PTFE Membrane Separation for Sludge Treatment Center

Yutaka Homon1,2, Takeo Yano1, Masataka Kubo1, Masaaki Bannai1, Hideyuki Katsumata3, Satoshi Kaneco3

1 Graduate School of Regional Innovation Studies, Mie University

2Shimakankyoujigyou Kyougyoukumiai, Shima, Mie

3 Graduate School of Engineering, Mie University

(13) 16:30 Actualities and Problems on Career Formation of Female Engineers in an Automobile Associated Industry

Emiko Isogai1 and Shinji Tsuruoka1  
1 Graduate School of Regional Innovation Studies, Mie University

(14) 16:45 Applicable Case for Self-Assessment Form to Spread Fundamental Values

Kimiaki Ito1, Takeo Yano1, Shinji Tsuruoka1

1 Graduate School of Regional Innovation Studies, Mie University

(15) 17:00 Workshop "tekuteku" - Creation and Preservation of Local Information with   
Linked Outdoor Activities to Public Library -

Yoshihiro Watanabe1

1 Graduate School of Interdisciplinary Information Studies, University of Tokyo, Tokyo

【**SECOND DAY: OCTOBER 12 (FRIDAY)】**

**Session 5 Human Interface for Regional Innovation 9:00-10:00**

**Session chairs:** Kazunori Yamamori, Wataru Ohyama

(16) 9:00 Electrical Demand Forecast of Mie University

Masahiro Suzuki1, Masaaki Bannai1, Hiroki Yamaguchi1, Tatsuhito Koshika1 and Yusuke Katano1

1 Graduate School of Regional Innovation Studies, Mie University

(17) 9:15 A Study on Real-Time Motion Detection of Lecturer for Image Based e-Learning System –Implementation of Motion Detection Using Parallel Image Processor and its Evaluation –

Hiroya Tanaka1, Hiroharu Kawanaka1, Takaharu Sedo2, Haruhiko Takase1, Shinji Tsuruoka3

1 Graduate School of Engineering, Mie University

2 Hagiwara Electric Co., Ltd. Nagoya

3 Graduate School of Regional Innovation Studies, Mie University

(18) 9:30 For “Vocational Guidance System” Automatic Database Assignment of Character Strings in Job Offer Form

Masaya Shigenaga1, Shinji Tsuruoka2, Hiroharu Kawanaka1 and Haruhiko Takase1  
1 Graduate School of Regional Innovation Studies, Mie University

2 Graduate School of Engineering, Mie University

(19) 9:45 Characters Extraction from Strings on a Document Image Using Handwritten Mark on Tablet-PC - Classifying for Handwritten memo and mark -  
 Shinnosuke Hattori1, Shinji Tsuruoka1, Hiroharu Kawanaka2, Haruhiko Takase2  
1 Graduate School of Regional Innovation Studies, Mie University

2 Graduate School of Engineering, Mie University

**Session 6 Biomedical Engineering for Regional Innovation 10:15-11:15**

**Session chairs:** Sahoko Ichihara, Shinji Tsuruoka

(20) 10:15 Automatic Fruit Grading System Using Principal Component Analysis of Color Image

Kasumi Ito1, Wataru Ohyama1, Tetsushi Wakabayashi1 and Fumitaka Kimura1

1 Graduate School of Engineering, Mie University

(21) 10:30 Computer-aided Diagnosis Scheme for Determining Histological Classification of Breast   
Masses using Clinical Features and Texture Features

Akiyoshi Hizukuri1, Ryohei Nakayama2, Yumi Kashikura2, Hiroharu Kawanaka1, Haruhiko Takase1, Tomoko Ogawa2, Shinji Tsuruoka3

1 Graduate School of Engineering, Mie University

2 Graduate School of Medicine, Mie University

3 Graduate School of Regional Innovation Studies, Mie University

(22) 10:45 Extraction of Disease Area Using Three Dimensional Regional Statistics for Retinal   
Optical Coherence Tomography (OCT) Image

Ikunari Nakahara1, Shinji Tsuruoka2, Haruhiko Takase1, Hiroharu Kawanaka1, Fumio Okuyama3 and Hisashi Matsubara4

1 Graduate School of Engineering, Mie University

2 Graduate School of Regional Innovation Studies, Mie University

3 Faculty of Medical Engineering, Suzuka University of Medical Science

4 Graduate School of Medicine, Mie University

(23) 11:00 Health Check Support System Using Relationship Between Individual Genome   
Information (SNP) and Lifestyle Disease

Ayato Morikami1, Shinji Tsuruoka1, Katsuyuki Hagiwara2, Yoshiji Yamada3, Haruhiko Takase4, Hiroharu Kawanaka4

1 Graduate School of Regional Innovation Studies, Mie University

2 Faculty of Education, Mie University

3 Life Science Research Center, Mie University

4 Graduate School of Engineering, Mie University

**【Closing Speech】 11:15-11:20**  Workshop General Chair: Shinji Tsuruoka

**Sponsors**

Graduate School of Regional Innovation Studies, Mie University, Tsu, Mie, Japan