Shizuoka University

INTER ACADEMIA ASIA

Inter-Academia Asia 2018

The 5th Conference

December 3-5, 2018　Shizuoka, Japan

Venue: Hotel Associa Shizuoka

December 3, Monday

Round- table & Networking Reception

14：30～17：00　Round-table meeting　(Room: Cattleya 3rd F)

17：30～19：30　Networking Reception (Room: Bela Vista 15th F)

December 4, Tuesday

Young Researchers Conference

10：00～17：00　Young Researcher's Conference

(Room: Aoi 3rd F, & Bela Vista 15F)

*Bus service is provided from & to Hamamatsu campus (8:00am to leave from S-port)

December 5, Wednesday

Individual Activities

Visits to Shizuoka or Hamamatsu campus for Research meetings

*Optional city tour for Shizuoka campus visitors

8:30　Bus leaving the Hotel for Shizuoka campus
Meeting at each Faculty・Devision
13:00　Bus leaving campus for city tour
16:30　Bus arriving at the Hotel

ROOM Aoi: 3rd floor

Agriculture

Chair: Dr. Radix Suharjo(Faculty of Agriculture, University of Lampung, Indonesia)

13:30 **Oral 25**	**Study of Talaromyces spp. with Multiple Beneficial Task** I. R. Pangesti,3, R. Suharjo1,3, Y. Fitrianal,3, E. Merdianal, L. T. Pasaribu1, I. G.Swibawa1,3, K.F.Hidayat2,3 1 Plant Protection Department, Faculty of Agriculture, University of Lampung, Indonesia 2 Agronomy and Horticulture Department, Faculty of Agriculture, University of Lampung, Indonesia 3 Magister of Agronomy, Faculty of Agriculture, University of Lampung, Indonesia	25
13:50 **Oral 26**	**Analysis on specific interactions between Alix family proteins and their target proteins** K. Asakawa and Y. Kimura Dept. of Agriculture, Graduate School of Integrated Science and Technology, Shizuoka University, Japan	26
14:10 **Oral 27**	**Rescue of heat-sensitivity of a mutation of Spc2, a subunit of signal peptidase complex by ubiquitin overexpression** M. Yoshikawa1, R. Masuda1, R. Moriuchi2, H. Dora2, Y. Kimura1 1 Grad. Sch. Integ. Sci & Tech. Shizuoka Univ. 2 Inst. Green Sci. & Tech. Shizuoka Univ.	27

Education

Chair: Prof.Yusuke Tominaga (Faculty of Humanities, Chiang Mai University, Thailand)

14:30 **Oral 28**	**Satellite Radio Reception Experiment as a Teaching Material for High School Physics** N.Kobayashi1, H.Uchiyama1 1Graduate school of Education, Shizuoka University, Japan	28

Humanities & Social Sciences

Chair: Dr. Huynh Anh Tuan (University of Languages and International Studies:ULIS, Vietnam)

14:50 **Oral 29**	**On the Logical Problem of Second Language Acquisition** On the Logical Problem of Second Language Acquisition C. Matsuzawa 1, A. Otaki 2, & M. Komachi 3 1 Faculty of Humanities and Social Sciences, Shizuoka University, Japan 2 Graduate School of Education, Shizuoka University, Japan 3 Faculty of Humanities and Social Sciences, Shizuoka University, Japan	29
15:10 **Oral 30**	**GENDER BIAS THROUGH PICTURES IN THE NEW TEN-YEAR ENGLISH TEXTBOOK SERIES FOR VIETNAMESE SCHOOLS: A CRITICAL DISCOURSE ANALYSIS** N. N, Nguyen University of Languages and International Studies, Vietnam	30

Chair: Dr. Anindita Majumdar (Department of Liberal Arts, Indian Institute of Technology Hyderabad)

15:30 **Oral 31**	**"I WANT A NATURAL BIRTH, NOT A NORMAL BIRTH!": EXPLORING PUBLIC DISCOURSES ON WOMEN'S EXPERIENCES OF BIRTH IN INDIA** S. Majumdar Department of Liberal Arts, Indian Institute of Technology Hyderabad, India	31
15:50 **Oral 32**	**Image Modification of the Prefecture by Using Local Mascot: A Case Study of Kumamon in Kumamoto, Japan** Rasiga Chiranukrom, Thailand Master's course student of Japanese Studies Center, Faculty of Humanities, Chiang Mai University, Thailand.	32

Study of *Talaromyces* spp. with Multiple Beneficial Task

I. R. Pangesti,[3], R. Suharjo[1,3], Y. Fitriana[1,3], E. Merdiana[1], L. T. Pasaribu[1], I. G.Swibawa[1,3], K.F.Hidayat[2,3]

[1] *Plant Protection Department, Faculty of Agriculture, University of Lampung, Indonesia*

[2] *Agronomy and Horticulture Department, Faculty of Agriculture, University of Lampung, Indonesia*

[3] *Magister of Agronomy, Faculty of Agriculture, University of Lampung, Indonesia*

This study was aimed to reveal the identity of *Talaromyces* spp. and their ability as entomopathogen, antagonist, phosphate solubilizing fungi, chitin degrading fungi, and Plant Growth Promoting Fungi (PGPF). Six isolates of *Talaromyces* spp. were used in this study. Those all isolates were obtained from three different plants rhizosphere, namely pineapple (AS-2 UNILA, AS-3 UNILA, AS-4 UNILA, AS-5 UNILA), corn (AS-8 UNILA), and chili (AS-11 UNILA). Identification was performed on the basis of morphological characteristics and molecular technique using sequence analysis of Internal Transcribed Spacer (ITS) region. Ability as entomopathogen was investigated on cocoa mirid bug (*Helopeltis* spp.). Antagonist test was conducted using dual culture method against *Phytophtora* sp. which was isolated from cocoa pod rot symptom. Ability as phosphate solubilizing fungi and chitin degrading fungi was conducted on pikovskaya and chitin agar medium, respectively. Ability as PGPF was achieved using cucumber plant as indicator plant. The data collected in this study were identity of the isolates, mortality of cocoa mirid bug, percentage of inhibition againt *Phytophtora* sp., area of the clear (halo) zone around the colony which was grown on pikovskaya and chitin agar media, plant height, wet weight of shoot, greenish leaves and percentage of shoot N-content. Based on the morphological characteristics, it was confirmed that all the isolates were in the group of *Talaromyces*. Sequence analysis result of ITS region (ITS1-ITS4) revealed that all the isolates were placed in the group of *Talaromyces sayulitensis*. All the isolates showed capability as entomopathogen (16.67-46.67% of mortality), antagonist (56.03-74.57% of inhibition), phosphate degrading fungi (27.40-35.80 mm^2 of clear (halo) zone area) and chitin degrading fungi (17.30-24.30 mm^2 of clear (halo) zone area). Three isolates showed capability as PGPF (AS4-UNILA, AS8-UNILA and AS11-UNILA) but not for the other 3 isolates (AS2-UNILA, AS3-UNILA and AS5-UNILA).

Keywords: *Talaromyces sayulitensis, entomopathogen, antagonist, phosphate solubilizing and chitin degrading fungi, Plant Growth Promoting Fungi*