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
### Agriculture

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

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<td>13:30</td>
<td>Oral 25</td>
<td>Study of Talaromyces spp. with Multiple Beneficial Task</td>
<td>I. R. Pangesti,3, R. Suharjo1,3, Y. Fitrianal,1, E. Merdianal, L. T. Pasaribu1, L. G. Swibawal,1,3, K.F.Hidayat2,3</td>
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<td>1 Plant Protection Department, Faculty of Agriculture, University of Lampung, Indonesia</td>
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<td>2 Agronomy and Horticulture Department, Faculty of Agriculture, University of Lampung, Indonesia</td>
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<td>3 Magister of Agronomy, Faculty of Agriculture, University of Lampung, Indonesia</td>
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| 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 |
| 14:10 | Oral 27   | Rescue of heat-sensitivity of a mutation of Spe2, a subunit of signal peptidase complex by ubiquitin overexpression | M. Yoshikawa1, R. Masuda1, R. Moriuchi2, H. Dora2, Y. Kimural  

### Education

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

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

### Humanities & Social Sciences

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

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| 14:50 | Oral 29   | 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 |
| 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 |

### Humanities & Social Sciences

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

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| 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 |
| 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 |
Study of *Talaromyces* spp. with Multiple Beneficial Task


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 *Phytophthora* 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 against *Phytophthora* 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 mm² of clear (halo) zone area) and chitin degrading fungi (17.30-24.30 mm² 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