

# International Seminar on “Sustainable utilization of biological resources and conservation of natural environment in Asia”

Harbin, July 27-28, 2013

July 27<sup>th</sup> 2013

9:00-9:05 Opening Remarks

Shenkui Liu (Professor, Northeast Forestry University)

9:05-9:15 Opening Remarks

Shigeru Hori (Director, ANESC, The University of Tokyo)

9:20-9:45 Oral Presentation

ImShik Lee (Professor, Northeast Forestry University)

“Effects of extremely low frequency electromagnetic fields on cation transport in AtCAX5 expressing yeast”

9:45-10:10 Oral Presentation

Mariko Norisada<sup>1</sup>, Takashi Yamanoshita<sup>1</sup>, Kazutoshi Osawa<sup>2</sup>, Koji Adachi<sup>3</sup>, Toshihide Nagano<sup>2</sup>, Ippei Iiyama<sup>2</sup>, Naoto Habu<sup>2</sup>, Kunihiro Yoshino<sup>4</sup>, Miho Kojima<sup>1</sup>, Makoto Yochida<sup>2</sup>, Satoshi Kogawara<sup>1</sup>, Tomoyasu Ishida<sup>2</sup>, Masafumi Inoue<sup>1</sup>, Pisoot Vijarnsorn<sup>6</sup>, Katsumi Kojima<sup>1</sup> (1.ANESC, The University of Tokyo, 2.Utsunomiya University, 3.Akita Prefectural University, 4.University of Tsukuba, 5.Tokyo University of Agriculture and Technology, 6. The Chaipattana Foundation, Thailand)

“Toward an approach for the sustainable use of tropical peatlands”

10:10-10:25 Break

10:25-10:50 Oral Presentation

Shaojun Dai (Professor, Northeast Forestry University)

“Mechanisms of Plant Salt Response: Insights from Quantitative Proteomics”

10:50-11:15 Oral Presentation

Shio Kobayashi, Tetsuo Takano (ANESC, The University of Tokyo)

“The effect of bicarbonate on plants and the role of Na<sup>+</sup>/H<sup>+</sup> exchanger under bicarbonate stress”

11:15-11:40 Oral Presentation

Yuxiang Cheng (Professor, Northeast Forestry University)

“Arabidopsis GDPDs in phospholipid-degraded pathway function in maintaining cellular phosphate homeostasis under phosphate starvation”

11:40-12:05 Oral Presentation

Kun Zong, Chunlan Lian (ANESC, The University of Tokyo)

“Ecological and physiological studies on ectomycorrhizal fungi and their associated bacteria under heavy-metal stresses”

12:05-13:30 Lunch

13:30-13:55 Oral Presentation

Xiguang Yang (Northeast Forestry University)

“Spatial and temporal analysis on land use change in songnen plain”

13:55-14:20 Oral Presentation

Poornima Ramalingam<sup>1</sup>, Akihiko Kamoshita<sup>1</sup>, Tong Ly<sup>1</sup>, Keisuke Nemoto<sup>2</sup>, Tohru Manabe<sup>3</sup> (1. ANESC, The University of Tokyo, 2. Graduate School of Agricultural and Life Sciences, The University of Tokyo, 3. Southern Ibaraki Agricultural and Forestry Office)

“Variations in drought response index and flowering time in two rice mapping populations under prolonged drought and rewatering for two years”

14:20-14:45 Oral Presentation

Jeeraporn Kansup<sup>1</sup>, Daisuke Tsugama<sup>2</sup>, Tetsuo Takano<sup>1</sup> (1. ANESC, The University of Tokyo, 2. Pennsylvania State University)

“Functional characterization of novel G protein  $\beta$  subunit (AGB1)-interacting proteins”

14:45-15:00 Break

15:00-16:30 Poster Presentation

1. Li lixin, Zhang Zhongyang (李立新, 张忠阳)

“Arabidopsis atsyp71/72/73 have defect on root elongation in early development stage”

2. Liu Shenkui, Guan qingjie (柳参奎, 管清杰)

“Stress response assays of PutAPX gene and salt tolerance analysis of PutAPX Over-expressed transgenic *Arabidopsis thaliana*”

3. Li lixin, Zhao Xiaonan (李立新, 赵潇男)

“MAG2 complex is involved in the seed storage protein transport”

4. Li lixin, Zhao Xiaonan (李立新, 赵潇男)

“MAG2 complex functions on the ER”

5. Shenkui Liu, Limin Chen (柳参奎, 陈莉敏)

“Priliminary analysis of the promoters of *Os*NADP-Malic Enzyme Family in Plant”

6. Shenkui Liu, Xinxin Zhang, Kunyuan Guo (柳参奎, 张欣欣, 郭坤元)

“A  $\text{Ca}^{2+}$ -Dependent Nuclease, AtCaN2, interacts with AtCYSb in Arabidopsis”

7. Shenkui Liu, Qiuxiang Luo (柳参奎, 罗秋香)

“2-DE analysis of *Chloris virgata* (Swartz.) under carbonate stress”

8. Shurong Ma, Shuang Feng (马书荣, 冯爽)

“Pollination Biology Characteristics of *Salix linearistipularis*”

9. Shenkui Liu, Kun Qiao (柳参奎, 乔坤)

“Morphological and molecular characterization of selected microalgae in extreme saline-alkali soil”

10. Shenkui Liu, Kun Qiao (柳参奎, 乔坤)

“The construction of resistant saline-alkali *chlorella* full-cDNA library and screening of resistance genes”

11. Shenkui Liu, Ying Li (柳参奎, 李莹)

“Isolation and characterization two unknown salt tolerance genes from *Puccinellia tenuifolra* in *Saccharomyces cerevisiae*”

12. Shenkui Liu, Bo Sun (柳参奎, 孙博)

“The role of unknown gene (AT5G57345) on stress response and development from Arabidopsis”

13. Shumei Jin, Ji Wang (金淑梅, 王吉)  
“Overexpression of a metallothionein-like protein in rice genome confers tolerance to several abiotic stresses in *Saccharomyces cerevisiae* and *Arabidopsis thaliana*”
14. Qingjie Guan, XuHui Wang (管清杰, 王旭辉)  
“ Identification of an alkalophilic and salt-tolerant algae from extreme alkali-saline soil”
15. Shengkui Liu, Song Yu (柳参奎, 于聿)  
“Identification of two mitochondrial gamma carbonic anhydrase genes in rice (*Oryza sativa*. L) expressed in response to salt and oxidative stress”
16. Shengkui Liu, Min Zhang (柳参奎, 张敏)  
“The metal-binding ability of a type 2 metallothionein-like protein (PutMT2) from *Puccinellia tenuifolia*”
17. Qingjie Guan, Heng Zheng (管清杰, 郑恒)  
“Expression analysis of rice zinc finger protein gene *OsLOL2* and response to salt-alkali and oxidative stresses”
18. Shengkui Liu, Aimin Zhou (柳参奎, 周爱民)  
“Expressing a V-ATPase c subunit gene affecting vesicle trafficking by enhancing V-ATPase activity and participating in Arabidopsis growth”
19. Shengkui Liu, Aimin Zhou (柳参奎, 周爱民)  
“Characterization of *Arabidopsis thaliana* vacuolar-type H<sup>+</sup>-ATPase c subunits that promote cell elongation in yeast”
20. Takashi Ichimiya<sup>1</sup>, Masahiro Osumi<sup>1</sup>, Yasuhisa Kobayashi<sup>2</sup>, Miho Kojima<sup>1</sup>, Masafumi Inoue<sup>1</sup> (1. ANESC, The University of Tokyo, 2. Alfa Forum Co., Ltd)  
“Comparison of GHG emissions in construction of timber and reinforced concrete structure”
21. Satoshi Watanabe, Takashi Ichimiya, Tsaiyu Chan, Miho Kojima, Masafumi Inoue (ANESC, The University of Tokyo)  
“Comparison of economic repercussion effects in construction of timber and reinforced concrete structures”
22. Vivek Deshmukh, Akihiko Kamoshita, Mariko Norisada, Tong Ly (ANESC, The University of Tokyo)  
“Ecophysiological and genetic studies for improving effective water use in rice (*Oryza sativa* L.)”
23. Hiroyuki Kurokochi<sup>1</sup>, Yuichi Nakajima<sup>1</sup>, Yu Matsuki<sup>1</sup>, Dan Arriesgado<sup>2</sup>, Chunlan Lian<sup>1</sup>, Miguel D. Fortes<sup>3</sup>, Wilfredo Uy<sup>4</sup>, Wilfredo Campos<sup>5</sup>, Masahiro Nakaoka<sup>6</sup>, Kazuo Nadaoka<sup>2</sup> (1. ANESC, The University of Tokyo, 2. Tokyo Institute of Technology, 3. UP, Marine Science Institute, 4. Mindanao State University at Naawan, 5. UP Visayas, 6. Hokkaido University)  
“Forming process of a tropical seagrass, *Thalassia hemprichii*, population in Bolinao”
24. Yuichi Nakajima<sup>1</sup>, Yu Matsuki<sup>1</sup>, Dan Arriesgado<sup>2</sup>, Hiroyuki Kurokochi<sup>1</sup>, Chunlan Lian<sup>1</sup>, Miguel D. Fortes<sup>3</sup>, Wilfredo Uy<sup>4</sup>, Wilfredo Campos<sup>5</sup>, Masahiro Nakaoka<sup>6</sup>, Kazuo Nadaoka<sup>2</sup> (1. ANESC, The University of Tokyo, 2. Tokyo Institute of Technology, 3. UP, Marine Science Institute, 4. Mindanao State University at Naawan, 5. UP Visayas, 6. Hokkaido University)  
“Reproductive system and genetic connectivity of *Enhalus acoroides* in Bolinao region, Philippines”
25. Dan Arriesgado<sup>1</sup>, Chunlan Lian<sup>2</sup>, Yuichi Nakajima<sup>2</sup>, Yu Matsuki<sup>2</sup>, Hiroyuki Kurokochi<sup>2</sup>, Wilfredo Uy<sup>3</sup>, Wilfredo Campos<sup>4</sup>, Miguel D. Fortes<sup>5</sup>, Masahiro Nakaoka<sup>6</sup>, Kazuo Nadaoka<sup>1</sup> (1. Tokyo

- Institute of Technology, 2. ANESC, The University of Tokyo, 3. Mindanao State University at Naawan, 4. UP Visayas, 5. UP, Marine Science Institute, 6. Hokkaido University)
- “Genetic diversity and connectivity among seagrass populations, *Cymodocea rotundata* and *C. serrulata*, in tropical and subtropical regions”
26. Bingyun Wu (Graduate School of Agricultural and Life Sciences, The University of Tokyo)  
“Visualization of nutrient translocation in ectomycorrhizal symbioses”
27. Qian Sun, Tetsuo Takano (ANESC, The University of Tokyo)  
“Study on the mechanism of salt-tolerance in *Miscanthus sinensis* Andersson”
28. Fumiya Sugiyama<sup>1</sup>, Akihiko Kamoshita<sup>1</sup>, Jun Abe<sup>2</sup>, Tetsuo Takano<sup>1</sup> (1. ANESC, The University of Tokyo, 2. Graduate School of Agricultural and Life Sciences, The University of Tokyo)  
“The effects of silicon on root growth and physiology in rice under drought”
29. Momoka Kobayashi<sup>1</sup>, Daisuke Tsugama<sup>2</sup>, Tetsuo Takano<sup>1</sup> (1. ANESC, The University of Tokyo, 2. Pennsylvania State University)  
“Functional characterization of VIP1 homologue in *Arabidopsis thaliana*”
30. Tang Biyun, Ayako Tamanaha, Atsuko Hori, Satoru Kida, Shigeru Hori (ANESC, The University of Tokyo)  
“The spatial characteristics of Fenghuang old city (Hu Nan Sheng, China) on analysis of the roads, the mountains and the buildings”

July 28<sup>th</sup> 2013

Field tours (3 courses)