

International seminar on metapopulation studies on microalgae in coastal waters of East China Sea and Yellow Sea

DATE

26 November 2013

PLACE

Faculty of Science and Engineering Building 6, Saga University

AIMS OF THE SEMINAR

Blooms of planktonic organisms, including jellyfish, commonly occur in the coastal waters of Japan, Korea, and China. Planktonic microalgae, such as *Cochlodinium polykrikoides*, simultaneously cause blooms in the coastal waters of Korea and Japan. Recent numerical simulation and genetic studies have revealed that *Cochlodinium polykrikoides* had been advected from the coastal waters of Korea to Japan. These three countries have a close relation to the blooms of planktonic organisms.

In the last two decades, diatom blooms have frequently occurred in the winter season in the inner part of the Ariake Sea. The causative species of the blooms have changed in the interval of 5 to 10 years. Mechanisms behind this species succession have not yet been clarified. Thus, to predict such events even in an embayment, we have an increased need to expand the study area and understand the genetic relationship between local populations.

The objective of this meeting is to facilitate the exchange of ideas and cooperation in studying microalgae in these three countries. The meeting also aims to find research topics for collaboration.



PROGRAM

- 10:30- Opening remarks
- 10:35- **Improvement of previous qPCR methods for the quantification of *Heterosigma akashiwo* cysts**
Myung-Soo Han, Hanyang University, Korea
- 11:00- **Metagenomics of microeukaryotes using V1-V3 18S rDNA and 454 pyrosequencing**
Jang-Seu Ki, Sangmyung University, Korea
- 11:25- **Application of dinoflagellate cysts for understanding the environmental changes in Korean and Japanese coastal areas**
Hyeon Ho Shin, KIOST, Korea
- 11:55- Lunch time
- 13:25- **Monitoring of benthic HAB species associated with ciguatera fish poisoning in Korean coastal water**
Seung Ho Baek, KIOST, Korea
- 13:50- **Phytoplankton Ecological Research in Northern Coastal Waters of China: case studies in areas affected by anthropogenic activities**
Kai You, Ocean University of China, China
- 14:15- **Effect of temperature on changes in size and morphology of the marine diatom, *Ditylum brightwellii* (West) Grunow (Bacillariophyceae)**
Seung Won Jung, KIOST, Korea
- 14:40- **Biogeography and ecological characteristics of *Skeletonema* species (Bacillariophyta) in Japanese coastal waters**
Machiko Yamada, Fukuoka Woman's University
- 15:05- Tea Break
- 15:20- ***Akashiwo sanguinea* in the Ariake Sea**
Toshiya Katano, Saga University
- 15:45- **Contrasting temporal and spatial distribution of dinoflagellate versus diatom during a tidal cycle in a shallow estuary, Ariake Sea, Japan**
Narumi Tsugeki, Ehime University
- 16:05- Open discussion for future collaboration
- 16:30- Concluding remarks

Secretariat

1-Honjo machi, Saga, Saga 840-8502, Japan
Institute of Lowland and Marine Research, Saga University
Tel&Fax: +82-952-28-8846
E-mail: ilmr@ilt.saga-u.ac.jp

