

The 2nd International Joint Meeting
on Alkenone Biosynthesis
in Bioscience and Geoscience
[Mini-symposium on Alkenones]

28th February (Friday), 2014

University of Tsukuba
(Place: Sogo-building A107)

Program

9:50-10:00 Opening remarks
Yoshihiro Shiraiwa (Professor, University of Tsukuba)

10:00-10:30 The latest developments in alkenone geoscience
J. Toney
University of Glosgow

10:30-11:00 Pyrolysis experiments of long chain alkenones and alkenes in
Emiliana Huxleyi
K. Sawada, R. Abe and H. Nakamura
Hokkaido Univiversity

11:00-11:30 Chemotaxonomic significance of alkenone composition in family
Isochrysidaceae.
Hideto Nakamura¹, Ken Sawada^{1,3}, Hiroya Araie^{2,3}, Yoshirio Shiraiwa^{2,3}
¹Hokkaido University; ²University of Tsukuba; ³JST/CREST;

11:30-12:00 Refining alkenone paleobarometry: Significance of constraint on
physiological factors for pCO₂ estimates
Osamu Seki
Hokkaido University

12:00-13:30 Lunch break

13:30-14:00 CREST/JST Project on alkenone biosynthetic pathway analysis
in marine Haptophytes.
Y. Shiraiwa^{1,2}
¹University of Tsukuba; ²JST/CREST

14:00-14:30 Analysis of photosynthetic carbon flux into alkenones and
polysaccharides in the coccolithophorid *Emiliana huxleyia*.
Y. Tsuji^{1,2}, M. Yamazaki¹, I. Suzuki^{1,2} and Y. Shiraiwa^{1,2}
¹University of Tsukuba; ²JST/CREST

14:30-15:00 A big step towards elucidation of Alkenone synthetic pathway in
Emiliana huxleyi.
N. Ohi¹, I. Suzuki^{1,3}, K. Sawada^{2,3}, H. Nakamura², R.K. Bakku¹, S. Fukuda¹,
Y. Hanawa¹ and Y. Shiraiwa^{1,3}
¹University of Tsukuba; ²Hokkaido University; ³JST/CREST

15:00-15:30 Transcriptomic analysis of cold-inducible genes associated with lipid
biosynthesis in *Emiliana huxleyia*.
H. Araie^{1,2}, M. Baba¹, I. Suzuki^{1,2} and Y. Shiraiwa^{1,2}
¹University of Tsukuba; ²JST/CREST

- 15:30-16:00 Identification of a $\Delta 15$ fatty acid desaturase in the coccolithopholid, *Emiliana huxleyi*.
T. Kotajima, I. Suzuki^{1,2} and Y. Shiraiwa^{1,2}
¹University of Tsukuba; ²JST/CREST
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- 16:00-16:15 Coffee break
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- 16:15-16:45 Microalgal process development: From growth and dewatering to extraction.
I. Watson
University of Glosgow
- 16:45-17:15 Ocean acidification impact on biomineralisation: protein and mineral response of *Mytilis edulis*.
S. Fitzer
University of Glosgow
- 17:15-17:45 Technical expertise of the time-resolved metabolomics using stable isotope
T. Ito
Keio University
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- 17:45-18:30 Discussion and closing remarks
Ken Sawada (Associate Professor, Hokkaido University)
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- 19:30- Convivial party