The 3rd Symposium on Membrane Stress Biotechnology

Date: November 4th (Fri.)
Place: Seminar Room, Machikaneyama Kaikan, Toyonaka Campus, Osaka University
http://www.cheng.es.osaka-u.ac.jp/kuboilabo/MSB/

9:30 Opening Remarks

Session I Liposome as Bio-Inspired Membrane
9:40 Liposome-Assisted Change of Conformation and Activity of Peptides under Stress ~Anti-Oxidative Roles of Aβ-Metal Complex on Membrane~
Hiroshi Umakoshi (Osaka Univ.)

10:00 Optimal Preparation and Immobilization of Liposome-Bound Cellulase for Hydrolysis of Insoluble Cellulose in Airlift Bioreactor
Makoto Yoshimoto (Yamaguchi Univ.)

10:20 Structure of The Vesicle Membrane of Nonionic Surfactants Span80 and Span85
Kei-ichi Kato (Ehime Univ.)

11:00 The Interaction of Oligopeptides with Lipid Vesicles and Its Potential Relevance for the Origin(s) of Life.
Peter Walde (ETH-Zurich)

12:00 Luncheon

Session II Stress Response on Biomembrane
(Chairman: Toshihide Kobayashi)

13:00 The Role of Sterylglucoside in Stress-responsive Signal Transduction
Kimiko Murofushi (Ochanomizu Univ.)

13:40 Action Mechanism of Free Bile Acids in Intestinal Lactic Acid Bacteria Leading to Growth Inhibition
Atsushi Yokota (Hokkaido Univ.)

14:20 Characterization of Multiple Isozyme Knockout Mutants of Bacillus subtilis --- DNases and Antioxidative Enzymes
Tetsuaki Tsuchido (Kansai Univ.), Jin Sakamoto, K.Hayashi, T.Tsuchido (Kansai Univ.)

14:55 Break

Session III Network Built-up on Membrane
(Chairman: Keiichi Kato)

15:10 Lipid Probes: Interaction with Specific Lipids and Application to Cell Biology
Toshhide Kobayashi (Riken)

15:50 Micro-Patterned Lipid Bilayer Membranes on Solid Substrates: A Versatile Model System of the Biological Membrane
Ken-ichi Morigaki (AIST)

16:10 Novel Hybrid Vector, Fusogenic Liposome, for the Drug Carrier
Shinsaku Nakagawa (Osaka Univ.)

16:40 Study on Stress Responsive Dynamics of Liposome Membrane and Its Application
Toshinori Shimanouchi (Osaka Univ.)

17:00 Poster Session

18:30 Mixing Party

Supported by
Research Group on Membrane Stress Biotechnology,
21COE "Integrated EcoChemistry", JSPS,
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