

## Tuesday Afternoon

### ■ PHO 3: Specialty Phospholipids

*Chair(s): W. van Nieuwenhuyzen, and TBA*

**Modification Processes of Lecithin.** W. van Nieuwenhuyzen, Lecipro Consulting, Netherlands.

**Preparation of Novel Phospholipid by Enzymatic Reaction.** Y. Yamamoto, M. Hosokawa, and K. Miyashita, Hokkaido University, Japan.

**Engineering the Functionality of Dairy Foods by Enzymatic Modification of Milk Phospholipids.** H.M. Lilbaek<sup>1,2</sup>, R. Ipsen<sup>2</sup>, T.M. Fatum<sup>1</sup>, and N.-K. Soerensen<sup>3</sup>, <sup>1</sup>Novozymes A/S, Denmark, <sup>2</sup>The Royal Agricultural and Veterinary University, Frederiksberg, Denmark, <sup>3</sup>Chr Hansen A/S, Denmark.

**Mode of the Interaction of Fluorinated-Hydrogenated Hybrid Amphiphiles with Dipalmitoylphosphatidylcholine (DPPC) Langmuir Monolayer.** K. Hoda<sup>1</sup>, H. Nakahara<sup>1</sup>, H. Kawasaki<sup>2</sup>, N. Yoshino<sup>3</sup>, C.-H. Chang<sup>4</sup>, and O. Shibata<sup>\*1</sup>, <sup>1</sup>Kyushu University, Division of Biointerfacial Science, Graduate School of Pharmaceutical Sciences, Japan, <sup>2</sup>Kyushu University, Graduate School of Science, Japan, <sup>3</sup>Tokyo University of Science, Dept. of Industrial Chemistry, Faculty of Engineering and Institute of Colloid and Interface Science, Japan, <sup>4</sup>National Cheng Kung University, Dept. of Chemical Engineering, Taiwan.

**Behavior of Ganglioside Langmuir Monolayer Originated from the Echinoderms.** Y. Ikeda<sup>2</sup>, K. Hoda<sup>1</sup>, H. Kawasaki<sup>3</sup>, K. Yamada<sup>2</sup>, R. Higuchi<sup>2</sup>, and O. Shibata<sup>1</sup>, <sup>1</sup>Kyushu University, Division of Biointerfacial Science, Graduate School of Pharmaceutical Sciences, Japan, <sup>2</sup>Kyushu University, Natural Products Chemistry, Graduate School of Pharmaceutical Sciences, Japan, <sup>3</sup>Kyushu University, Dept. of Chemistry, Graduate School of Science, Japan.

**Oxidative Stability and Emulsification Properties of Egg Yolk Lecithin.** G. Wang and Tong Wang, Iowa State University, USA.

**Supercritical CO<sub>2</sub> Extraction for Lipid and Phospholipid Recovery from Sewage Sludge.** K. Liang, H. Toghiani, R. Hernandez, and D. Sparks, Mississippi State University, Dave C. Swalm School of Chemical Engineering, USA.

## Wednesday Morning

### ■ PHO 4: General Phospholipids

*Chair(s): J. Maynes, The Solae Co., USA; B. Diehl, Spectral Service, Germany; and To Be Announced*

**Phospholipid and Sphingolipid Composition of the Milk Fat Globule Membrane (MFGM) : Determination by SPE and HPLC-ELSD.** P. Bodson<sup>1,2</sup>, S. Danthine<sup>\*2</sup>, C. Blecker<sup>2</sup>, G. Lognay<sup>4</sup>, M. Marlier<sup>3</sup>, C. Deroanne<sup>2</sup>, and M. Paquot<sup>1</sup>, <sup>1</sup>Industrial Biological Chemistry Dept., Gembloux Agricultural University, Belgium, <sup>2</sup>Food Technology Dept., Gembloux Agricultural University, Belgium, <sup>3</sup>General and Organic Chemistry Dept., Gembloux Agricultural University, Belgium, <sup>4</sup>Analytical Chemistry Dept., Gembloux Agricultural University, Belgium.

**Properties of Phospholipases from Marine Bacteria.** K.

Yazawa<sup>1</sup>, J. Iwasaki<sup>1</sup>, M. Nishihara<sup>1</sup>, M. K. Koyama<sup>1</sup>, <sup>1</sup>Laboratory of Nutraceuticals a Foods Science, Graduate School of Marine Technology, Toyko University of Marine Technology, Japan, <sup>2</sup>Dept. of Science of Aes Yamano College of Aesthetics, Japan.

**<sup>31</sup>P-NMR Round Robin Test on Phospholipids.** Diehl and W. Ockels, Spectral Service, Germany.

**Screening of Phospholipase A<sub>1</sub> from Marine Food Processing at Low Temperature.** M. I. Kamata<sup>2</sup>, T. Koyama<sup>1</sup>, and K. Yazawa<sup>1</sup>, Nutraceuticals and Functional Foods Science School of Marine Science and Tech University of Marine Science and Tech <sup>2</sup>Dept. of Science of Aesthetics and Art Yan Aesthetics, Japan.

**Heat Deterioration of Phospholipids. III.** A. Hayashi<sup>1</sup>, H.-S. Koh<sup>1</sup>, S. Tebayashi<sup>2</sup>, and T. Tsuji<sup>1</sup>, <sup>1</sup>Tsuji Oil Mill Co., Ltd., Japan, <sup>2</sup>Faculty Kochi University, Japan.

**Heat Deterioration of Phospholipids. IV.** Hamaguchi<sup>1</sup>, H.-S. Koh<sup>1</sup>, S. Tebayashi<sup>2</sup>, and T. Tsuji<sup>1</sup>, <sup>1</sup>Tsuji Oil Mill Co., Ltd., Japan, <sup>2</sup>Faculty Kochi University, Japan.

**Membrane Lipid Glycation and its** Nakagawa<sup>1</sup>, T. Tsuzuki<sup>2</sup>, and T. Miyazaki<sup>1</sup>, <sup>1</sup>University, Sendai, Miyagi, Japan, <sup>2</sup>Miyagi University, Sendai, Miyagi, Japan.

### ■ PHO-P: Phospholipids Poster Session

*Chair(s): B. Seebree, Archer Daniels Midland USA*

**Interfacial Behavior of Binary Langmuir Monolayers of Perfluorinated Carboxylic Acids with DPPC, DMPE and DPPG at the Air-Water Interface.** Nakahara, H. Yokoyama, and O. Shibata, <sup>1</sup>Division of Biointerfacial Science, Graduate School of Pharmaceutical Sciences, Japan.

**Prodan Fluorescence and DSC Studies of Cholesterol with Diacylphosphatidylcholines.** M. Uemura<sup>2</sup>, N. Moribayashi<sup>2</sup>, M. Kusul and S. Kaneshina<sup>1</sup>, <sup>1</sup>Dept. of Life System Technology and Science, The University of Tokushima, Japan, <sup>2</sup>Dept. of Biological Science, Graduate School of Advanced Technology, Wakayama National College of Technology.

**Barotropic and Thermotropic Phase Behavior of Dioleoylphosphatidylethanolamine Bilayers.** Matsuki<sup>1</sup>, R. Sueyoshi<sup>2</sup>, N. Tamai<sup>1</sup>, and S. Kaneshina<sup>1</sup>, <sup>1</sup>Dept. of Life System, Institute of Technology, University of Tokushima, Japan, <sup>2</sup>Dept. of Applied Chemistry, Graduate School of Advanced Technology and Science, The University of Tokushima.

**Barotropic and Thermotropic Phase Behavior of Phospholipid Bilayers Observed by Prodan.** S. Kaneshina<sup>1</sup>, M. Kusube<sup>3</sup>, M. N. Tamai<sup>1</sup>, and H. Matsuki<sup>1</sup>, <sup>1</sup>Dept. of Life System, Institute of Technology and Science, The University of Tokushima, Japan, <sup>2</sup>Dept. of Applied Chemistry, Graduate School of Advanced Technology and Science, The University of Tokushima.