



2019 AOCs Annual Meeting & Expo

May 5–8 America's Center Convention Complex | St. Louis, Missouri, USA

Phospholipid (PHO) Interest Area Tentative Technical Program

As of February 12, 2019

This presentation list is not final and is subject to change.

The presenter is the first author, or the author indicated with an asterisk ().*

Monday Afternoon

PHO 1: Phospholipids and Bioactive Lipids in Foods and Pharmaceutical Applications

Chairs: Ernesto Hernandez, Advanced Lipid Consultants, USA; and Samia Mezouari, Canada

Lecithin as a Support System of Various Antioxidant Management Solutions. Dushka Dimitrijevic*¹, Ksenija Uroic, Simona Urbancic, Masa Hojnik Niderl², Karmen Plajnsek, and Nina Janzekovic², ¹Frutarom IFF, Slovenia; ²Food Protection BU of Frutarom-IFF, Slovenia

Superior Antioxidant Activity of Lecithin Derived from High Oleic Soybeans. Susan Knowlton*, DuPont Company, Pioneer, USA

Achieving a Tumor Docosahexaenoic Acid (DHA) Content of 5% from Different Doses and Sources of DHA Improved Chemotherapy Efficacy in Mice Bearing Patient Derived Breast Cancer Xenografts. Marnie Newell*, Vera Mazurak, Lynne M. Postovit, and Catherine J. Field, University of Alberta, Canada

Long-Chain Omega-3 Status in Canadian Adults: Results from the Canadian Health Measures Survey 2012-2015. Isabelle Demonty*¹, Kellie Langlois², Linda Greene-Finestone³, Rana Zoka⁴, and Loan Nguyen⁵, ¹Nutrition Research Division, Bureau of Nutritional Sciences, Health Canada, Canada; ²Health Analysis Division, Statistics Canada, Canada; ³Public Health Agency of Canada, Canada; ⁴Bureau of Nutritional Sciences, Food Directorate, HPFB, Health Canada, Canada; ⁵Bureau of Food Surveillance and Science Integration, Food Directorate, HPFB, Health Canada, Canada

Use of New Phospholipid Blends for Stabilization and Delivery of Bioactives in Beverages. Ernesto M. Hernandez*, Advanced Lipid Consultants, USA

Application of Zinc and Calcium Acetate to Precipitate Milk Fat Globule Membrane Components from a Dairy By-product. Tao Fei¹, Stephanie Clark¹, Tong Wang², and Nathan R. Price*¹, ¹Iowa State University, USA; ²Iowa State University, USA

Bioactive Lipids. Yeonhwa Park*, Dept. of Food Science, University of Massachusetts Amherst, USA

Composition and Structure of Human Milk Fat Globules: Towards Specific Interest in Infant Formula. Wei Wei*¹, Mingdong Dong², and Xingguo Wang¹, ¹*Jiangnan University, China*;
²*Interdisciplinary Nanoscience Center, Aarhus University, Denmark*

Tuesday Morning

PHO 2: New Source Phospholipids: Their Process, Characteristics and Applications

Chairs: Kristie Adams, Steelyard Analytics, Inc., USA; and Sara KoochiKamali, Advance International Inc., USA

Double-layer Chia Oil Microcapsules with Sunflower Lysolecithin And Maltodextrin-chia Mucilage. Mabel Tomás*, *CIDCA (CONICET-UNLP), Argentina*

Tuesday Afternoon

PHO 3: New Trends in Lecithin Process, Modification and Applications

Chairs: Swapnil Jadhav, Archer Daniels Midland Co., USA; and Moghis Ahmad, Jina Pharmaceuticals Inc., USA

Polar Lipids: Potentiality for Exploration. Xuebing Xu*, *Wilmar Global Research and Development Center, China*

Effect of Ultrasonic Treatment on the Physicochemical Properties and Oxidative Stability of Phospholipids. Xiaofei Jiang*¹, Shengmin Zhou¹, Yuan-Rong Jiang², Alireza Abbaspourrad³, and J. Thomas Brenna⁴, ¹*Wilmar (Shanghai) Biotechnology Research & Development Center Co., Ltd., China*; ²*Wilmar Biotechnology R&D Center (Shanghai) Co., Ltd., China*; ³*Cornell University, China*; ⁴*Cornell University, USA*

Enzymatic Production of Marine Based Lyso-phosphatidylcholine Enriched in ω -3 Polyunsaturated Fatty Acids. Bo Zhou¹, Sampson Anankanbil², Yongjin He¹, and Zheng Guo*¹, ¹*Aarhus University, Denmark*; ²*Dept. of Engineering, Aarhus University, Denmark*

PHO-P: Phospholipid Poster Session

Chairs: Shawn Pan, Bunge North America, USA; and Sheher Mohsin, Agilent, USA

Retardation of Anhydrous Milk Fat Crystallization through the Addition of Dairy Phospholipids. Zachary Cooper*¹, Casey R. Simons², and Silvana Martini¹, ¹*Utah State University, USA*; ²*Utah State University, USA*