Poster Presentations

(September 8-9, 18:00-19:00)

P-1 Preparation of novel nanoparticles with α-type hydrated crystal

J. Takahashi, K. Aramaki

Graduate School of Environment and Information Science, Yokohama National University, Japan

P-2 Preparation and interfacial properties of novel surfactants derived from disaccharides

A. Endo, S. Kobayashi, A. Masuyama

Department of Applied Chemistry Faculty of Engineering Osaka Institute of Technology, Japan

P-3 Novel surfactants bearing a bleaching ability prepared by ozonation of α-olefins in the presence of polyols

S. Kido, S. Kobayashi, A. Masuyama

Department of Applied Chemistry Faculty of Engineering Osaka Institute of Technology, Japan

P-4 Optimization of the decoloration of orange I with unpurified (crude) soybean peroxidase immobilized on PET

A. Fujimoto, M. Morita

Hokkaido University of Education Sapporo, Japan

P-5 Counterion-species dependency on charge reversal of colloid-polyelectrolyte complexes

R. Kato[1], H. Frusawa[2]

[1]Department of Biophysical Chemistry, Pharmaceutical Sciences, Nagasaki International University, Japan, [2]Institute for nanotechnology, Kochi University of Technology, Japan

P-6 Characterization of gemini surfactant micelles (14-10-14,2Br$^-$): solubilization of n-alkylbenzenes

H. Nakahara, Y. Kojima, Y. Moroi, and O. Shibata

Department of Biophysical Chemistry, Graduate School of Pharmaceutical Sciences, Nagasaki International University, Japan

P-7 Solution properties of gemini surfactants with different spacer lengths

H. Nakahara[1], H. Nishizaka[1], H. Akisada[1], M. Nakaya[2], K. Kanie[2], A.Muramatsu[2], O. Shibata[1]

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Multidisciplinary Research for Advanced Materials, Tohoku University, Japan

P-8 Inhibition of scale precipitation with a green polymer in water treatment system

S. Chiu, C. Su, Y. Lin, P. Lin

Department of Chemical Engineering, Ming Chi University of Technology, Taiwan

P-9 Control of micelle-vesicle transition using disulfide linked Gemini surfactants

T. Mizuhashi, T. Asakawa, A. Ohta

School of Chemistry, College of Science and Engineering, Kanazawa, University, Japan

P-10 Micellar solubilization behavior revealed by pyrene excimer fluorescence

K. Matsuzawa, S. Hasegawa, T. Asakawa, A. Ohta

School of Chemistry, College of Science and Engineering, Kanazawa University, Japan

P-11 Analysis of effects of spontaneous spatial pattern formation during sunscreens application on the UV protection ability

M. Wakabayashi[1], K. Okano[1], M. Endo[2], T. Mukawa[2], N. Sato[2], N. Nakamura[2], D. Maezawa[1, 2], A. Nakao[3], K. Takano[3], H. Sumida[4], H. Masaki[4], A. Kuroda[1, 5], K. Asakura[1]

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P-12 Novel triple-semifluoroalkyl fatty acids and their monolayer behavior

H. Takase, R. Yano, T. Oida, T. Kawase

Department of Material Technology,Kyoto Institute of Technology, Japan

P-13 Effects of bovine serum albumin on the behavior of mixed monolayers containing phospholipid by fluorescence microscopy

Y.-T. Chen, T.-Y. Chang, C.-H. Chang

Department of Chemical Engineering, National Cheng Kung University, Taiwan

P-14 Preparation of oil gels with polyoxybutylene polyoxyethylene-pentaerythrityl ether

K. Ohishi, M. Kamada, K. Aramaki

Graduate School of Environment and Information Science, Yokohama National University, Japan

P-15 Study of core-shell structured polyaniline/γ-Al2O3 conductive nanocomposites

C.-H. Chen, Y.-C. Lin, C.-H. Chuang

Department of Chemical and Materials Engineering, Southern Taiwan University of Science and Technology, Taiwan

P-16 Palmitoleic acid calcium salt: Bactericidal powder from natural lipids

Y. Yamamoto[1], Y. Kawamura[1], T. Morikawa[2], Y. Nonomura[1]

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P-17 Influence to fabric pollution of clay pigment aqueous solution pH and treatment time

S. Tazawa[1], E. Komatsu[1], M. Morita[1], S. Okamura[1], M. Yahata[2]

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P-18 Fabrication of Novel Polymer Tubes through One-Dimensional Fusion of Polymer Capsules

K. Inada, T. Kida, M. Akashi

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P-19 Effect of fatty acid composition on aquatic toxity and surface activity of soap

T. Hirayama, M. Oya

Graduate School of Environment and Information Sciences, Yokohama National University, Japan

P-20 Application of methyl ester sulfonate for eco-friendly laundry powder detergent

N. Boonsamraj[1], N. Phunna[1] , K. Anurakkamolkul[1] , Y. Miyamae[2]

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P-21 Potential of methyl ester sulfonate as a surfactant for laundry liquid detergent

P. Yap[1], C. Hee[1], S. Otsuka[2], M. Ono[2]

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P-22 Rinsability of methyl ester ethoxylate （MEE） based laundry liquid detergent

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P-23 Effectiveness of methyl ester ethoxylate in detergent for microporous clothing

T. Kim[1], H. Park[1], S. Kim[1], M. Makino[2]

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Lion Corporation, Japan

P-24 Nonionic surfactants enhancing bactericidal activity at their critical micelle concentrations

S. Tobe[1], T. Majima[2], H. Tadenuma[1], T. Suekuni[2], K. Sakai[3], H. Sakai[3], M. Abe[3]

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P-25 Effect of Quillaja saponaria Molina as a natural surfactant on viscosity behavior for various kinds of highly-concentrated detergent solutions

K. Toya, T. Nakahara, T. Horiuchi

Research & Development DIV., Maruzen Pharmaceuticals Co., Ltd., Japan

P-26 Stabilization effect of titanium dioxide nanoparticles with dimethicone treatment on O/W pickering emulsion using Trimethylsilated Silica

M. Oka, H. Asano, M. Kitahara, S. Nakata

NIPPON MENARD COSMETIC CO.,LTD., Japan

P-27 Properties in aqueous solution of a mixture of an amphoteric surfactant with a series of carboxylic acids

Y. Arai, Y. Yamamoto, A. Yoshino, K. Taga

Department of Materials Science and Engineering, Nagoya Institute of Technology Nagoya Japan

P-28 An explanation for the opposite cholesterol effects on bilayer membrane rigidity of ethosome-like catanionic vesicles

Y.-M. Yang, Y.-T. Chuang, Y.-L.Tang

Department of Chemical Engineering, National Cheng Kung University, Taiwan

P-29 Hyper-Branched Double-Hydrocarbon-Tail Surfactants for a Fluorocarbon-like Low Surface Energy

A. Ohata[1], T. Narumi[1], T. Endo[1], C. James[1], A. Yoshizawa[1], Fredric Guittard[2], Julian Eastoe[3], Masanobu Sagisaka[1]

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P-30 Low-Fluorine-Content Triple-tail Surfactants for Water / Supercritical CO_2 Microemulsions

K. Sato[1], S. Iwama[1], C. James[1], A. Yoshizawa[1], T. Ardyani[2], A. Mohamed[2], F.

Guittard[3], J. Eastoe[4], M. Sagisaka[1]

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P-31 Solubilization of Water into Supercritical CO_2 by Highly-methylated Triple-Hydrocarbon-Tail Surfactants

T. Endo[1], M. Niwase[1], T. Narumi[1], A. Ohata[1], C. James[1], A. Yoshizawa[1], F. Guittard[2], J. Eastoe[3], Masanobu Sagisaka[1]

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P-32 Interfacial Properties of Hybrid Surfactants Having Branched Hydrocarbon and Short Fluorocarbon tails

T. Narumi[1], M. Kubota[1], S. Ono[1], C. James[1], A. Yoshizawa[1], T. Ardyani[2], A. Mohamed[2], M. Sagisaka[1]

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P-33 pH-responsive transition of self-assembled structure for single surfactant system of zwitterionic amphiphile

C. Imura, M. Hatano, Y. Imura, T. Kawai, H. Shindo

Department of Applied Chemistry, Chuo University, Tokyo

P-34 The Belousov-Zhabotinsky reaction catalyzed Ferroin for Self-oscillationg Gel Actuator

M. Mukai, N. Uchida and T. Arimura

Nanosystem Research Institute, Advanced Industrial Science and Technology (AIST), Japan

P-35 Physical stability and molecular packing of catanionic vesicles fabricated from Ion pair amphiphile and dihexadecyl phosphate

W.-F. Chang, P.-J. Li, Y.-T. Wang, C.–H. Chang

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P-36 New features of methyl ester sulfonate（MES） for liquid laundry detergent

Y. Kamoya, C. Endo, H. Konta, T. Kubozono, N. Tobori

Functional Materials Science Research Labs., Lion Corporation, Japan

P-37 No poster

P-38 No poster

P-39 No Poster

P-40 Conformation control of adsorbed proteins by template Langmuir monolayers

at air-liquid interfaces

L.-H. Chen[1], K.-H. Wang[2], Y.-L. Lee[2]

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P-41 Structural analysis and rheological property of Highly-Oxidized Edible Oil

C. Itcho[1], A. Moriuchi[2], R. Takahashi[2], T. Sakai[1], F. Suzuki[1], N. Hagino[2], M. Itou[1], Y. Yomogida[1], R. Koike[2], A. Tanaka[2], T. Kawaguchi[2], T. Okano[1]

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P-42 Polarized terahertz spectroscopy of B form stearic acid

S. Arnold, J. Asari, S. Yodokawa, T. Kurabayashi, T. Tanno

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P-43 Assignment of fatty acid propyl ester of milk fat using Ag-Ion SPE

M. Umezawa[1], R. Sasaki[1], T. Ishiguro[1], S. Sato[2], Y. Watanabe[3]

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P-44 Determination of DMOX derivatives of fatty acids of the sea-anemone lipids on the vent bivalve *Calyptogena phaseoliformis*

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P-45 MS/MS determination of choline/ethanolamine-plasmalogens via alkali metals adduct formation

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P-46 LC-MS/MS determination of human plasma 1-palmitoyl-2-hydroperoxyoctadecadienoyl phosphatidylcholine isomers via promotion of sodium adduct

S. Kato[1], K. Nakagawa[1], Y. Suzuki[1], S. Mizuochi[1], A. Asai[2], M. Nagao[2], K. Nagashima[3], S. Oikawa[2], T. Miyazawa[1,4]

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NICHe, Tohoku University, Japan

P-47 Lipidomics analysis using high-throughput search engine “LipidSearch”

Y. Yokoi[1], T. Oshida[1], Y. Fukamachi[1], D. Peake[2], J. Wang[2] , Y. Huang[2] , R. Taguchi[3]

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P-48 Preparation of pure phosphatidylcholine hydroperoxide molecular species/isomers

S. Mizuochi[1], S. Kato[1], K. Nakagawa[1], Y. Suzuki[1], T. Miyazawa[1,2]

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P-49 Effect of formulation variables on micromeritic properties of ibuprofen loaded Eugragit® microspheres

P. Wongtrakul, P. Sobharaksha

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P-50 Influence of cooling condition of pseudo-lipstick type oleomaterial ingredients mixtures on their phase behavior

Y. Ito[1], K. Okano[1], M. Endo[2], T. Mukawa[2], N. Sato[2], N. Nakamura[2], D. Maezawa[1, 2], A. Kuroda[1, 3], K. Asakura[1]

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P-51 Synthesis and self-assembling properties of cyclic poly(oxyethylene) alkyl ether surfactants

Y. Hirose[1], T. Taira[2], K. Sakai[1], H. Sakai[1], T. Imura[2], D. Kitamoto[2]

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P-52 Biodiesel production by Lipozyme TL IM-catalyzed transesterificaiton using blended alcohol of methanol and butanol

T. Zhao, D. No, N. Choi, I. Kim

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P-53 Molecular recognition by cyclic and acyclic Oligo（Lactic acid)s

C. Kogame, T. Kida, T. Fujiwara, M. Akashi

Graduate School of Engineering, Osaka University, Japan

P-54 Lipozyme TL IM-catalyzed synthesis of biodiesel from acid oil in a packed bed reactor

N. Choi, T. Zhao, D. No, I. Kim

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P-55 Enzymatic preparation of lyso-phospholipids and evaluation of their anti-inflammatory effects

Y. Yamamoto, S. Takada, S. Hara

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P-56 Production of DHA-bound phospholipid via immobilized phospholipase A_2 mediated bioconversion

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P-57 Production of *trans*-free margarine fat by enzymatic interesterification of rice bran oil and fractionated palm stearin

P. Ornla-ied , S. Sonwai

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P-58 Biotransformation of ageratochromene by common cutworm (*Spodoptera litura*) as a biocatalyst

S. Nakaya, M. Miyazawa

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P-59 Biotransformation of (*R*)-(+)-pulegone by plant pathogenic fungus *Glomerella cingulate*

M. Iwasa, M. Miyazawa

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P-60 Modification of Thai rice bran oil by enzymatic interesterification to produce cocoa butter equivalent

P. Kosiyanant, G. Pande, C.C. Akoh, W. Tungjaroenchai

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P-61 Production of high-value added lipids from brown seaweed by two-stage fermentation

K. Hazel V. Arafiles[1], H. Iwasaka[1], Y. Eramoto[1], Y. Okamura[1], T. Tajima[1], Y. Matsumura[2], Y. Nakashimada[1], T. Aki[1]

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P-62 Production of a margarine fat from rice bran oil

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P-63 Characteristics of reduced fat meat loaf containing rice bran oil

L. Phumjan, W. Tungjaroenchai

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P-64 Fatty acid profile of the Red Alga *Kappaphycus alvarezii*

M. Illijas, G. Kim, Y. Itabashi

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P-65 Lipid and fatty acids of five Epinephelinae fishes, *Epinephelus fasciatus*, *Epinephelus retouti*, *Cephalopholis aurantia*, *Cephalopholis miniatus*, and *Variola louti*, in the coral reef

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P-66 Preparation and study on effect of rice hull extracts on oxidative stability of oil-in-water emulsions

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P-67 Comparison of antioxidant activities from selected beans

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P-68 Antioxidant capacity of genistein in caseinate and Liposome Systems

G. Anjani, S. Yamamoto, A. Ohta, T. Asakawa

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P-69 Improved antioxidant effect by emulsion technology

S. Hiyama[1], Y. Yamamoto[2], A. Kadowaki[1], Y. Takase[1], S. Hara[2]

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P-70 Preparation of oxidation-resistant powdered fish oil as sustained release formulation

Y. Hanzawa[1], S. Aoki[1], K. Nakagawa[1], S. Matsumoto[2], M. Akutsu[2], M.Kanauchi[3], M. Nishikawa[3], T. Miyazawa[1,4]

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P-71 Identification of a novel multi-functional carotenoid synthase in thraustochytrid

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P-72 Functional lipids obtained from fermented scallop ovary against activation of PPAR gamma

N. Hamaoka, M. Hosokawa K. Miyashita

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P-73 Siphonaxanthin, a green algal carotenoid, inhibits adipogenesis in 3T3-L1 preadipocytes and accumulation of lipids in white adipose tissue of KK-Ay mice

Z. Li[1], Y. Manabe[1], T. Hirata[1,2], and T. Sugawara[1]

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P-74 The effect of hydroxy and oxo fatty acids generated by *Lactobacillus plantarum* on oxidative stress in HepG2 cells.

H. Furumoto, T. Nanthirudjanar, T. Kume, S. Park, S. Kishino, J. Ogawa, T. Hirata, T. Sugawara

Division of Applied Biosciences, Graduate School of Agriculture, Kyoto University, Japan

P-75 The Inhibitory effects of linoleic acid from Lactobacillus paracasei subsp. paracasei NTU101-fermented soy milk on lipegenesis in 3T3L-1 adipocytes

M.-C. Cheng[1], T.-M. Pan[2], T.-Y. Tsai[1]

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P-76 The protective effect of *Lactobacillus plantarum* TWK10-fermented soy milk

on PC-12 cells in oxygen-glucose deprivation and H_2O_2-stimulated model systems

T.-H. Liu, T.-Yu. Tsai

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P-77 Neuroprotective effect of *Lactobacillus paracasei* subsp. *paracasei* NTU 101 fermented milk on the PC12 cells in oxygen-glucose deprivation model

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P-78 Comparison of the effects of curcumin and curcumin glucuronide in human hepatocellular carcinoma HepG2 cells

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P-79 Effects of sphingoid base species on apoptosis-related protein contents in human colon cancer cells (Caco-2)

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P-80 Ethanolamine plasmalogen enhances barrier function in Human epidermal keratinocytes

M. Nishimukai[1], T. Suzuki[2]

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P-81 Purification of membrane-bound fatty acid desaturases

K. Watanabe, M. Ohno, T. Aki

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P-82 The effect of orally administered alpha glycerylphosphorylcholine in SAMP8

S. Shibata, S. Ito, T. Ohkubo, K. Matsubara

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P-83 *Trans*-octadecenoic acid isomers have different properties in desaturation and

accumulation in mice

Y. Kawamura, M. Asanuma, K. Yoshinaga, T. Nagai, H. Mizobe, K. Kojima, F. Beppu, N. Gotoh

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P-84 Antigenotoxic effects of naturally occurring furanocoumarins

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P-85 Effects of maternal high fat feeding during pregnancy and lactation on oxidative stress and lipid metabolism of mice offspring

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P-86 Fish oil modulates ischemic injury in diabetes

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P-87 Neovasculogenic effect of 11,12-epoxyeicosatrienoic acid involves the PI3-K/Akt/eNOS signaling pathways in human endothelial progenitor cells

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P-88 PCOOH as oxidative stress marker of membrane lipids in model rats.

S. Hayasaka[1], S. Hasegawa[1,] K. Suzuki[1], S. Kato[1], F. Kimura[1,] K. Nakagawa[1], K. Izumisawa[2], T. Miyazawa[1,3]

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P-89 Metabolism of hydroperoxy-phospholipids (PCOOH) in human hepatoma HepG2 cells: The impact of PCOOH on physiological function

Y. Suzuki[1], S. Kato[1], K. Nakagawa[1], T. Miyazawa[1,2]

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P-90 Supplementation of cholic acid that does not increase fecal conjugated bile acids induces pathologic features in rats with modulation of intestinal microbiota

M. Tsuji, R. Yoshitsugu, K. Kikuchi, T. Nose, K. Tada, H. Shimizu, J. Lee, N. Baba, M. Hagio, S. Fukiya, A. Yokota, H. Hara, S. Ishizuka

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P-91 Effects of plant-origin sphingolipids and their metabolites on the digestive tract

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[1]Department of Food Science, Obihiro University of Agriculture and Veterinary Medicine, Japan, [2]Central Laboratory, Nippon Flour Mills Co., Ltd., Japan, [3]Department of Food and Nutrition, Fuji Women's University, Japan

P-92 Metabolisim of β-ionone by cytochrome P450 enzymes in human liver microsomes

R. Shimizu, M. Miyazawa

Department of Applied Chemistry, Faculty of Science and Engineering, Kinki University, Japan

P-93 Dietary phosphatidylcholine reduces lymphatic inflammatory cytokine levels in thoracic lymph-duct cannulated rats

B. Shirouchi, A. Kawauchi, Y. Furukawa, Y. Arima, M. Sato

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P-94 Sea cucumber cerebrosides rescues cancer cachexia in mice by attenuating adipose atrophy

L. Du[1,2], C.-H. Xue[1], K. Takahashi[2], Y.-M. Wang[1]

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P-95 Determination of phenolic acids and γ-oryzanol in rice bran using partial extraction method

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