

“The 49th Annual Meeting of the Japan Oil Chemists’ Society” Hakodate, Japan

Sep. 15 -17, 2010

- **Organizer** : Japan Oil Chemists' Society (JOCS)
- **Supporter** : City of Hakodate, Hakodate International Tourism and Convention Association
- **Date** : September 15 (Wed) to 17 (Fri), 2010
- **Venue** : Hokkaido University-Hakodate Campus
(3-1-1 Minato-Cho, Hakodate, Hokkaido 041-8611, Japan)

- **Banquet** : Sep. 16 (Thu) at “Gotoken” (4-5 Suehiro-cho, Hakodate)
- **Sport event** (Bowling) : Sep. 17 (Fri) Afternoon
- **Walking** : Sep. 17 (Fri) Afternoon

- **Conference Fees**

Conference Fees : 9,000 yen for each person

5,000 yen for each student

◆Banquet : 9,000 yen

◆Luncheon Seminar I: Lunch for Sep. 15 (Wed) 1,000 yen

◆Luncheon Seminar II: Lunch for Sep. 16 (Thu) 1,000 yen

◆Party after Sports events (The cost for sports events should be separately paid.): 3,500 yen

All the fees should be paid by cash (in Japanese yen) on that day.

- **All correspondence should be addressed to:**

Prof. Koretaro TAKAHASHI (Chairperson)

Associate Prof. Masashi HOSOKAWA

The 49th Annual Meeting of the Japan Oil Chemists’ Society (JOCSAM-49)

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The 49th Annual Meeting of Japan Oil Chemists' Society Scientific Program

Special Lecture

September 16th (Thu) 10:45-11:30 Room A (Lecture Building, 2F, Room L)

2SA-01 From Taiwan, Japan to the United States: My 45 years research on oil Biocatalysis.

USDA, ARS, NUAUR Dr. Ching T. Hou

Award Lectures

September 16th (Thu) 14:00-15:00 Room A (Lecture Building 2F, Room L)

14:00~14:30 Award Lecture for Prominent Studies

2SA-02 Quality control and effective utilization of natural oils and fats

(Seikei University) HARA Setsuko

14:30~15:00 Award Lecture for Young Prominent Scientists

2SA-03 Preparation of molecular assemblies composed of natural amphiphiles and their application

(National Institute of Advanced Industrial Science and Technology) IMURA Tomohiro

Oil and Fat Industry Kaikan Foundation Award Lectures

September 15th (Wed) 9:00-12:00 Room E (Lecture Building, 2F, Room 7)

9:00~9:05 Opening Address

Lectures on Oil and Fat Technology

9:05~9:20

1SE-01 Preparation of novel microemulsion including polymeric silicone

(Shiseido Co., Ltd.) MIYAHARA Reiji

9:20~9:35

1SE-02 Adsorption of actives in ophthalmological drugs for over-the-counter on soft contact lens surfaces

(Lion Corporation) TABUCHI Nobuhito

9:35~9:50

1SE-03 Development of novel cosmetic base using sterol surfactant

(Shiseido Co., Ltd.) TESHIGAWARA Takashi, OKA Takashi, MIYAHARA reiji,
WATANABE Kei, FUKUHARA Tadao

Lectures on Oil and Fat Industrial Development

10:00~10:15

1SE-04 Role of oil and fat industry in economic activation; Worldwide development of rice farm business and economic activation

(Miyoshi Oil & Fat Co., Ltd.) IBA Nobuyo

10:15~10:30

1SE-05 Role of oil and fat industry in economic activation; New power generation system concept utilizing fatty industry waste

(Sanyo Chemical Industries, Ltd.) MIURA Shuji

10:30~10:45

1SE-06 The jump-start of the economy with oil and fat industry; The cultivation of new energy supply system in a rice paddy-field

(Miyoshi Oil & Fat Co., Ltd.) HAMAMOTO Kazuhiro

10:45~11:00

1SE-07 Ideal way of global management in the oil and fat industry; Stabilization of global market by supplying oil, fat and energy from Asian granary area

(Kao Corporation) KASAI Takao

Lectures on Resercah Grant

11:10~11:25

1SE-08 Time-resolved quasi-elastic laser scattering study on formation of back lipid membrane

(Chiba University (Present affiliation: Tokyo Univeristy)) TOYOTA Taro

11:25~11:40

1SE-09 Inflammatory effect of squalene hydroperoxide generated in sunlight-exposed human skin and the mechanism

(Graduate Scool of Agricultural Science, Tohoku University) NAKAGAWA Kiyotaka

11:40~11:55

1SE-10 Combination effect of carotenoid and medium-chain triacylglycerols; Broaden the use of carotenoid in function food

(Fuculty of Agriculture and Life Science, Hirosaki University) MAEDA Hayato

11:55~12:00 Closing Address

Luncheon Division Seminar I

September 15th (Wed) 12:00-13:30

Detergent & Cleaning Division (Room B [Lecture Building, 1F, Room 4])

1LB-01 Soil repellency by fluoroalkylation on surface

(Kyoto Institute of Technology) KAWASE Tokuzo

Oleo-Industry Technical Division (Room G [Marine Science Building, 1F, Open Space])

1LG-01 Approach of restaurant chain "Bikkuri Donkey" for biomass recycling-oriented society
(Aleph Inc.) SHIMANUKI Hisao

Luncheon Division Seminar II

September 16th (Thur) 12:00-13:30

Oleo Nano Science Division (Room A [Lecture Building , 1F, Room L])

2LA-01 Nano-science in drug delivery research (Supported by Otsuka Pharmaceutical Co., Ltd)
(Center for Drug Delivery Research & Faculty of Pharmaceutical Sciences,
Tokyo University of Science) TERADA Hiroshi

Functionality and Structure of Oil Foods Division (Room D [Lecture Building, 2F, Room 6])

2LD-01 Effect of the fat crystallization behavior in oil droplets on the solidification of O/W emulsion
(Megmilk Snow Brand Co., Ltd) MUTO Takaaki
2LD-02 Analysis of the microstructures and formation processes of granular crystals in the W/O
emulsion
(Snow Brand Co., Ltd) TANAKA Reo

Oleo Life Science Division (Room E [Lecture Building , 2F, Room 6])

2LE-01 Movement on trans-fatty acid issue over the last one year and questions on the issue
(Tokyo University of Main Science and Technology) GOTOH Naohiro

Special Lecture for the Citizens

September 15th (Wed) 17:00-18:45 Room F (Research Building #2, 1F, W103)

2SF-01 Change your food, change your brain
(PhD., Writer) IKUTA Satoshi
2SF-02 Functional foods and the prevention of metabolic syndromes
(Saga University) YANAGITA Teruyoshi

**JOCS-AOCS Taiwan Section Joint Symposium
“Biocatalysis and Functional Lipids”**

September 16th (Thur) 15:20-17:30 Room A (Lecture Building, 2F, Room L)

15:20~15:30

Opening Remark

15:30~16:00

2SA-04 Site-specific saturation mutagenesis on residues 132 and 450 of *Candida rugosa* LIP2 enhances catalytic efficiency and alters substrate specificity in various chain-length of triglycerides and esters

(National Chung Hsing University)

SHAW Jei-Fu

16:00~16:30

2SA-05 Diversification of fatty acid molecular species using microbial function
(Div. Appl. Life Sci., Grad. Sch. Agric., Kyoto Univ.¹, Ind. Microbiol., Grad. Sch. Agric., Kyoto Univ.², Res. Div. Microb. Sci., Kyoto Univ.³) Jun Ogawa¹, Eiji Sakuradani¹, Shigenobu Kishino², Akinori Ando³, Sakayu Shimizu¹

16:30~17:00

2SA-06 Biological activities of red algae in northeastern coast of Taiwan
(Graduate Institute of Biotechnology¹ and Department of Food Science and Biotechnology², National Chung Hsing University) Mei-Ling Cheng¹, Yung-Sheng Huang²

17:00~17:30

2SA-07 Bioactive lipids for the prevention of metabolic syndrome

(Saga University)

YANAGITA Teruyoshi

Oleomaterial Symposium

September 15th (Wed) 9:45-17:10 Room A (Lecture Building, 2F, Room L)

9:30~9:40 Opening Address

9:40~10:40

1A-01 **Invited Lecture**

Research about transparent ceramide² vesicles and skin efficacy
(POLA Chemical Industries,INC.) AKATSUKA Hidetaka

1A-02 **Invited Lecture**

Unique properties of novel surfactants and their synthetic intermediates - solution properties of fluorocarbon hybrid surfactants and gold-colored organic crystals
(Faculty of Engineering, Tokyo University of Science) KONDO Yukishige

10:45~12:00

- 1A-03 Inclusion complex formation between cyclodextrin derivatives and polycyclic aromatic compounds in nonpolar solvents
(Osaka University) IWAMOTO Takuya, FUJINO Yoshinori, KIDA Toshiyuki, AKASHI Mitsuru
- 1A-04 Synthesis of multipul hosts consisting of several cyclic oligosaccharides and the properties for molecular recognition
(Osaka Municipal Technical Research Institute¹, Food Research Laboratories, Mitsui Norin Co., Ltd.²) SHIZUMA Motohiro¹, SATO Hirofumi¹, ONO Daisuke¹, TAKAGAKI Akiko², MURAKAMI Hiromi¹, NAKAMURA Masaki¹
- 1A-05 Development of removing agents with thermostability
(HARVES Co., Ltd.¹, Tokyo University of Science²)
GOTO Yosuke¹, YOSHINO Norio²
- 1A-06 Enzymatic synthesis and properties of novel lactone-type surfactants
(Keio Univ) MORI Keisuke, KATO Yusuke, MATSUMURA Shuichi
- 1A-07 Synthesis of dendritic amphiphilic compounds forming reverse micelles
(Faculty of Sci. and Tech., Tokyo Univ. of Sci.¹, Faculty of Sci. and Tech.; Research Institute for Sci. and Tech., Tokyo Univ. of Sci.²)
SEKIYA Masatoshi¹, TORIGOE Kanjiro¹, SAKAI Kenichi², SAKAI Hideki², ABE Masahiko²

13:20~13:30 Ceremony for Oleomaterial Award

13:30~14:00

1A-08 Award Lecture

Study on mechanism of inhibition of cholesterol by plant sterol/stanol
(Showa Pharmaceutical University) MATSUOKA Keisuke

14:00~15:00

1A-09 Invited Lecture

Biomimetic emulsion composed of sphingosine acidate
(Global R&D Beauty Care Kao Corporation) OHKUBO Koji

1A-10 Invited Lecture

Synthesis of compound semiconductor nanoparticles using protein template and construction of nano-handling system
(Japan Science and Technology Agency, PRESTO) IWABORI Kenji

15:00~16:00

1A-11 π -A Behavior of double semifluoroalkylated fatty acids

(Kyoto Institute of Technology) KAWASE Tokuzo, OKAMOTO Rika, OHSHITA Shinsuke,

OIDA Tatsuo

- 1A-12 Characteristic properties of aqueous micelles formed from hybrid surfactants
(Tokyo University of Science) TAKAHASHI Yutaka, KONDO Yukishige
- 1A-13 Synthesis of novel gemini surfactants from oleic acid: -Variation of the functional head groups-
(Faculty of Science and Technology, Tokyo University of Science¹, Miyoshi Oil & Fat Co., Ltd.², Faculty of Engineering, Tokyo University of Science³, Faculty of Industrial Science and Technology, Tokyo University of Science⁴)
MATSUDA Wataru¹, TAKAMATSU Yuichiro², SAKAI Kenichi¹, SAKAI Hideki¹, KAWAI Takeshi³, MATSUMOTO Mutsuyoshi⁴, ABE Masahiko¹
- 1A-14 Synthesis and properties of optically active cationic green surfactants containing carbonate linkages
(Keio University¹, Kitasato University²) BANNO Taisuke¹, KAWADA Kazuo², MATSUMURA Shuichi¹

16:00~17:00

- 1A-15 Molecular design and functional control of a novel autonomous chemical robot
(AIST NRI¹, Waseda Univ.², Univ. of Tokyo³) HARA Yusuke¹, MAEDA Shingo², HASHIMOTO Shuji², YOSHIDA Ryo³, YAMAGUCHI Tomohiko¹
- 1A-16 Synthesis and properties of amide types of chemocleavable nonionic surfactants derived from diethyl tartrate
(Osaka Municipal Tech. Res. Inst.¹ Osaka Institute of Technology²) ONO Daisuke¹, UENO Ryoma², SATO Hirofumi¹, SHIZUMA Motohiro¹, MASUYAMA Araki², NAKAMURA Masaki¹
- 1A-17 Preparation of hybrid corynomycolic acid and its monolayer formation
(Kyoto Institute of Technology) SUMIDA Sho, OIDA Tatsuo, KAWASE Tokuzo
- 1A-18 Synthesis and solution properties of cationic surfactants having ferrocenylalkyl chains
(Tokyo university of science) HATA Shinichi, TAKAHASHI Hiro, TAKAHASHI Yutaka, KONDO Yukishige

Surface Science (Property) Symposium

September 15th (Wed) 14:00-16:00 Room C (Lecture Building, 1F, Room 5)

14:00~14:50

- 1SC-01 Evaluation of texture of cosmetic products by rheological properties
(Shiseido Research Center) SOGABE Atsushi

14:50~15:25

- 1SC-02 Photochemical control of wormlike micelle formation and rheological property using cinnamic acid derivatives

15:25~16:00

1SC-03 Performance upgrading of nonionic surfactant aqueous solution by adding ionic surfactant

(Yokohama National University)

ARAMAKI Kenji

General Oral Session

Room B (Lecture Building, 1F, Room 4)

September 16th (Thur) AM: Surface Science (Property)

9:00~10:00

- 2B-01 Influence of the difference of preparation method of sunscreen agent film on in vitro measurement of the sun protection factor (SPF) and UVA protection factor (UVA-PF)
(Para Hermosa Co., Ltd.¹, Keio University², Cosmetechno Co., Ltd.³) MUKAWA Tsubasa¹,
MAEZAWA Daisuke^{1,2}, KURODA Akihiro^{2,3}, ASAKURA Kouichi ²
- 2B-02 Theoretical evaluation of the influence of the surface roughness of sunscreen agents generated by directional viscous fingering during their coating on sun protection factor (SPF)
(Keio University¹, Para Hermosa Co., Ltd.², Cosmetechno Co., Ltd.³)
PLASSON Raphael¹, MAEZAWA Daisuke^{1,2}, KURODA Akihiro^{1,3}, ASAKURA Kouichi¹
- 2B-03 Experimental and theoretical analysis of water-repellency of dewetting patterns of hydrophobic polymer film on hydrophilic glass plate
(Keio University) MATSUMURA Megumi, PLASSON Raphael, ASAKURA Kouichi
- 2B-04 Surface modification of poly (ethylene terephthalate) using an atmospheric pressure plasma jet
(Nara Women's University) GOTOH Keiko, YASUKAWA Akemi

10:00~10:30

- 2B-05 Influence of dissolved water on dielectric breakdown voltage of various fatty-acid esters as environmentally friendly insulating oil.
(LION Corporation¹, Kitasato University²) OBA Rieko¹, SUZUKI Takashi¹,
KANETANI Akinori¹, KANO Takaaki¹, TAMURA Takamitsu¹, KATO Masashi²,
WATANABE Satoshi², KASAHARA Yasutoshi², IWAHASHI Makio²
- 2B-06 Behavior of water dissolved in fatty acid esters: spectroscopic and computer simulation study
(Kitasato University¹, LION Corporation²) KATO Masashi¹, WATANABE Satoshi¹,
KASAHARA Yasutoshi¹, IWAHASHI Makio¹, OBA Rieko², SUZUKI Takashi²,
KANETANI Akinori², KANO Takaaki², TAMURA Takamitsu²

September 17th (Fri) AM: Surface Science (Property)

9:15~10:00

- 3B-02 Interface properties of poly(oxybutylene) based surfactant
(NOF Corporation) WAKITA Kazuaki, ISHIKAWA Keisuke, MARUYAMA Kei-ichi
- 3B-03 Determination of micelle formation parameters of some ionic surfactants by differential conductivity method
(Aichi Institute of Technology) MURATA Mamoru
- 3B-04 Cloud point of nonionic surfactant solution in ionic liquid mixtures of emimBF₄ and hmimBF₄
(Fukuoka University) INOUE Tohru, IWASAKI Yasutaka

10:00~11:00

- 3B-05 Solubilization and odor diffusion of perfumes in aqueous surfactant solution
(Soda Aromatic Co., Ltd.) KANEI Noriko, HARIGAI Tomoyoshi, SANO Kouta, KATAOKA Masayuki
- 3B-06 Aggregation behavior of a surfactant containing pyrene
(Osaka Municipal Technical Research Institute) SATO Hirofumi, ONO Daisuke, SHIZUMA Motohiro, NAKAMURA Masaki
- 3B-07 Solution properties of amine oxide surfactants with amide groups
(Osaka Municipal Technical Research Institute) KAKEHASHI Rie, TOKAI Naoji, YAMAMURA Shingo
- 3B-08 Effect of double quaternary ammonium group on micelle formation of partially fluorinated surfactant
(Showa Pharmaceutical University¹, Nara Women's University²) MATSUOKA Keisuke¹, CHIBA Nagisa², YOSHIMURA Tomokazu², HONDA Chikako¹, ENDO Kazutoyo¹

11:00~11:45

- 3B-09 Surface-active properties of amphiphilic multi-sugar type oligomers with a long alkyl chain in end group
(Graduated School of Nara Women's Univ.) NAKATANI Yuka, YOSHIMURA Tomokazu
- 3B-10 Aqueous solution properties of mixtures of cationic surfactants with dicarboxylic acid to form 'quasi-gemini' assemblies
(Tokyo University of Science) OKABE Yuji, TSUCHIYA Koji, SAKAI Kenichi, SAKAI Hideki, ABE Masahiko
- 3B-11 Concentration effects of cationic and anionic surfactant ions on vesicle-micelle transition of catanionic surfactant
(Kyushu Kyoritsu University¹, Fukuoka Institute of Technology²) AKISADA Hideo¹, KUWAHARA Junko², FUJIMOTO Takatsugu¹, NISHIU Hiroki¹, OOGAMI Eitetsu¹

Room C (Lecture Building, 1F, Room 5)

September 15th (Wed) PM: Surface Science (Property)

16:10~16:55

- 1C-04 Synthesis of novel low molecular weight gelators with amidoamine group and their gelation ability
(Tokyo University of Science) KAWAI Chika, IMURA Yoshiro, MORITA Clara, ENDO Hiroshi, KAWAI Takeshi
- 1C-05 Effect of electrolytes on the emulsion based heat-induced gel
(Tokyo Univ. of Sci.) MORITA Clara, IMURA Yoshiro, ENDO Hiroshi, KAWAI Takeshi
- 1C-06 Structural change of hydrated solid formed in amino acid surfactant-higher alcohol systems by water-soluble polymer addition
(Yokohama National Univ.¹, Ajinomoto Aminoscience Lab.², Yokohama National Univ.³)
SUMI Taro¹, OSHIMURA Eiko², ARAMAKI Kenji³

September 16th (Thur) AM: Surface Science (Property)

9:00~9:45

- 2C-01 Phase behavior of a glycolipid biosurfactant -Influence of carbohydrate configuration-
(Tokyo Univ. of Sci.¹, National Institute of Advanced Industrial Science and Technology (AIST)²) YANAGIHARA Takashi¹, FUKUOKA Tokuma², MORITA Tomotake², IMURA Tomohiro², SAKAI Hideki¹, ABE Masahiko¹, Kitamoto Dai²
- 2C-02 Formation of ribbon aggregates of hybrid surfactant and the structural analysis
(Tokyo University of Science) OGURA Yuki, KAISE Takahiro, Fujita Norifumi, TAKAHASHI Yutaka, KONDO Yukishige
- 2C-03 Study of development of hyper water swollen lamellae structure and the effect on stratum corneum
(POLA Chemical Industries, INC) KAJI Megumi, TAKEYAMA Yuichiro, AKATSUKA Hidetaka, SETO Tadahito

9:45~10:30

- 2C-04 Preparation of vesicles in pluronic and nonionic surfactants mixture system
(Shinshu University) SAKAI Toshio, KUROSAWA Hiroyoshi, OKADA Tomohiko, MISHIMA Shozi
- 2C-05 Effect of a hybrid surfactant on ternary phases of hydrocarbon oil/fluorocarbon oil/water
(Tokyo University of Science) YANAGISAWA Natsu, TAKAHASHI Yutaka, KONDO Yukishige
- 2C-06 Effect of combination and composition of surfactants on self-assembled structures in water/sucrose alkanoate/nonionic surfactant/oil systems
(Yokohama National University¹, Mitsubishi-Kagaku Foods Corporation²)

ISHIZUKA chika¹, ARIMA Satoshi², ARAMAKI Kenji¹

September 16th (Thur) PM: Surface Science (Property)

15:00~16:00

- 2C-07 Formation of gel-liquid crystal intermediate structure in the aqueous solution system of lysophospholipid-cholesterol mixture and stabilization of emulsions
(Yokohama National Univ.¹, KOSE Corporation Research Laboratories KOSE²)
YOSHIMURA Akio¹, KONNNO Yoshikazu², NAITO Noboru², ARAMAKI Kenji¹
- 2C-08 Stability assessment and application of surfactant free nano emulsion
(Chiba Institute of Technology¹, AURA TEC.Co²) AIZAWA Yuka¹, TASHIRO Takumi¹, YAZAWA Yuuki¹, EGUCHI Toshihiko²
- 2C-09 Characteristics of emulsion formation for squalane and squalene by the three-phase emulsification
(Kanagawa Univ.) TOYOTA Kaori, IMAI Yoko, KOSHINUMA Masakatsu, TAJIMA Kazuo
- 2C-10 Dispersion stability of W/O emulsions with active interfacial modifier (AIM)
(Faculty of Science and Technology, Tokyo University of Science, Japan.) IKEDA Ryosuke, SHARMA Suraj Chandra, SHRESTHA Rekha Goswami, SAKAI Kenichi, SAKAI Hideki, ABE Masahiko, SAKAMOTO Kazutami

16:00~17:00

- 2C-11 Rheological properties of O/W emulsion stabilized by fatty alcohols and synthetic clay
(Nippon Menard Cosmetic co., LTD) KOIZUMI Yuka, BAN Sadanori, NAKATA Satoru
- 2C-12 HLB temperatures in water/poly(oxyethylene)-type nonionic surfactant/ester-type oil systems
(Yokohama National Univ.¹, Kracie Home Products²) TAWA Kosuke¹, IWANAGA Tetsuro², ARAMAKI Kenji¹
- 2C-13 Transparent O/I₁ emulsion formed in water/poly(oxyethylene) type surfactant/isododecane systems
(Yokohama National Univ.¹, Shiseido Research Center², Shiseido Research Center³)
TAKAHASHI Takuya¹, SUGIYAMA Yuki², WATANABE Kei³, ARAMAKI Kenji¹
- 2C-14 Lowering surfactant concentration required for cubic phase formation
(Yokohama National University) ONO Eriko, ARAMAKI Kenji

September 17th (Fri) AM: Surface Science (Property)

9:00~10:00

- 3C-01 Monolayer properties of a single-chain partially fluorinated amphiphile (F8H11OH) with biomembrane components
(Nagasaki International University¹, Institut Charles Sadron (UPR 22)²)
NAKAHARA Hiromichi¹, KRAFFT Marie Pierre², SHIBATA Osamu¹
- 3C-02 Interfacial properties of fluorocarbon-hybrid pulmonary surfactant preparations for the surfactant replacement therapy
(Nagasaki International University¹, Institut Charles Sadron (UPR 22)²)

NAKAHARA Hiromichi¹, LEE Sannamu¹, KRAFFT Marie Pierre², SHIBATA Osamu¹

3C-03 Adsorption characteristics of gemini/monomeric surfactant mixtures at the silica/aqueous solution interface

(Tokyo University of Science) SAKAI Kenichi, MATSUHASHI Kazunori, HONYA Ayako, SAKAI Hideki, ABE Masahiko

3C-04 Adsorption characteristics of the nonionic surfactant phytosterol ethoxylate in room-temperature ionic liquids

(Faculty of Science and Technology, Tokyo University of Science) ONUMA Yousuke, SAKAI Kenichi, SAKAI Hideki, ABE Masahiko

10:00~11:00

3C-05 Interfacial adsorption of sodium di(acyl glutamyl) lysine amphiphiles

(Faculty of Science and Technology, Tokyo University of Science¹, Functional Additive Division, Asahi Kasei Chemicals Corporation²) YOSHIMURA Mina¹, YAMAMOTO Masashi², YAMAWAKI Yukio², TAMURA Yoshinaga², SAKAI Kenichi¹, SAKAI Hideki¹, ABE Masahiko¹

3C-06 Preparation of gold nanoparticles using a fatty acid-type biosurfactant as a reducer and their application

(Meisei University¹, Nanjing University of Science and Technology², Georgia Institute of Technology³) KOIKE Takayoshi¹, HONJYO Haruo¹, ISHIGAMI Yutaka², ZHANG Yuejun², CHOI YoungKook³, HIDAKA Hisao¹

3C-07 Preparation and size control of silver nanoparticles using sugar ester reverse micelles

(Tokyo Metropolitan University¹, Dai-Ichi Kogyo Seiyaku Co., Ltd.²) NORITOMI Hidetaka¹, IGARI Naohiro¹, KAGITANI Kenji¹, MURATSUBAKI Yasutaka², KATO Satoru¹

3C-08 Preparation of poly epsilon caprolactone (PCL) microcapsules using electro-capillary emulsification method

(Faculty of Sci. and Tech., Tokyo Uni. of Sci.¹, Research Institute For Sci. and Tech., Tokyo Univ. of Sci.²) SEKITA Ayasa¹, TANAKA Keisuke¹, SAKAI Kenichi¹, SAKAI Hideki¹, KONDO Tamotsu², ABE Masahiko¹

11:00~12:00

3C-09 Nano-structure of aggregates formed by tadpole type amphiphilic dendrimers in aqueous solution

(Graduated School of Nara Women's Univ.¹, Institute for Solid State Physics, The University of Tokyo²) EBIHARA Aya¹, IWASE Hiroki², SHIBAYAMA Mitsuhiro², YOSHIMURA Tomokazu¹

3C-10 Synthesis and properties of gemini type amphiphilic dendrimers with hydrophilic dendrons

(Graduated School of Nara Women's Univ.) KAWANO Nara Karyn, YOSHIMURA Tomokazu

- 3C-11 Laundering characteristic of fatty acid methyl ester ethoxylates (MEE) / Cationic surfactant / fragrance mixed system
(LION Corp.) HASHIMOTO Emiko, KOBAYASHI Chika, TERABAYASHI Tsuyoshi, IIHARA Tadashi, TAKAOKA Hiromitsu
- 3C-12 Research on the rinse of bathroom cleaners
(Lion Corporation) FUJIMURA Shohei, YANO Maki, HASEGAWA Takayuki, TANAKA Kosuke

Room D (Lecture Building, 2F, Room 6)

September 16th (Thur) AM: Food Chemistry, Others

9:00~9:45

- 2D-01 The influence of fry conditions on functional components contained in potato chips
(Calbee CO.,Ltd.¹, Seikei Univ.²) SUGIHARA Naoko¹, HIRABAYASHI Masaki²
KATO Hiroyuki¹ ISHIIHARA Katsuyuki¹, KOGA Hidenori¹, TOTANI Yoichiro²
HARA Setsuko²
- 2D-02 ESR studies on lipids dynamics in wheat flour dough
(Kyoto University¹, NISSHIN SEIFUN GROUP², Mukogawa Womens University³,
Doshisha Womens College of Liberal Arts⁴) MATSUMIYA Kentaro¹,
MATSUMIYA Tomoko¹ HAYASHI Yukako¹, KUMAMARU Jun², MIYAMOTO Yuka³,
NISHIMURA Kimio⁴, MATSUMURA Yasuki¹
- 2D-03 Fractionation of glucosinolates contained in canola meal and preparation of isothiocyanates
(Seikei University) MARUYAMA Atsushi, TOTANI Yoichiro, HARA Setsuko

9:45~10:30

- 2D-04 Anti-oxidative activities of glycolipid biosurfactants, mannosylerythritol lipids
(Advanced Industrial Science and Technology (AIST)) TAKAHASHI Makoto,
MORITA Tomotake, FUKUOKA Tokuma, IMURA Kazuhiro, KITAMOTO Dai
- 2D-05 Bioactivities of triterpene saponin and highly-polar constituents from shea nuts
(College of Science and Technology, Nihon Universit) ZHANG Jie, SUZUKI Hirohisa,
KIKUCHI Takashi, WATANABE Kensuke, FUKATSU Makoto, MASTERS Eliot T,
AKIHISA Toshihiro
- 2D-06 Cerebrosides from apple pulp may induce apoptosis against human colon cancer cells
(Meiji University) SHIMADA Satoko, OSADA Kyoichi

September 16th (Thur) PM: Food Chemistry, Others

15:00~16:00

- 2D-07 Effects of plant glucosylceramide and its derivatives on innate immunity of intestinal epithelial cells
(Nippon Flour Mills Co., Ltd.¹, Obihiro University of Agriculture and Veterinary Medicine² Kyoto University³) AIDA Kazuhiko¹, KINOSHITA Mikio², SUGAWARA Tatsuya³, ONO Jisaburo¹, SHIMIZU Hirokazu¹, OHNISHI Masao¹
- 2D-08 DNA microarray analysis of gene expression in liver by oral administration of chicken skin sphingomyelin in fatty rats
(Department of Food Science, Obihiro University of Agriculture and Veterinary Medicine¹, Marudai Food Company Ltd., Central Research Institute²) TAKAHASHI Kosuke¹ KAWAMURA Jun², FUCYUU Hidetaka², KODAMA Yoshirou², SUGIYAMA Masaaki² YUNOKI Keita¹, TOKUJI Yoshihiko¹, KINOSHITA Mikio¹, OHNISHI Masao¹
- 2D-09 New aspect for intestinal absorption of plasmalogen
(Hokkaido University¹, ADEKA Co.², Teikyo University³) YAMASHITA Maya¹, NISHIMUKAI Megumi¹, YAMAZAKI Yuya², MAEDA Ryouta³, HARA Hiroshi¹
- 2D-10 Trans-fatty acids are preferentially incorporated into plasmalogens
(Hokkaido University¹, ADEKA Co.², Teikyo University³) HAYASHI Satomi¹, NISHIMUKAI Megumi¹, YAMAZAKI Yuya², MAEDA Ryouta³, HARA Hiroshi¹

16:00~17:00

- 2D-11 Effect of dietary plant epidermal wax on insulin resistance in KKAY mice
(Showa Womens University¹, Koriyama Womens University², Okinawa Sugar Cane Research Corporation³·Koyo Sangyo Co. Ltd.⁴) TAKEO Yuri¹, WATANABE Nakamichi¹, TAKAGI Kyoko², FUJIMOTO Kenshiro², TAKAMURA Yoshio³, TAKUMI Masaru⁴
- 2D-12 Anti-fatigue effect of dietary plant epidermal wax
(Showa Womens University¹, Koriyama Womens University², Okinawa Sugar Cane Research Corporation³·Koyo Sangyo Co. Ltd.⁴) WATANABE Nakamichi¹, SAWANO Yuko¹, FUJIMOTO Kenshiro², TAKAMURA Yoshio³, TAKUMI Masaru⁴
- 2D-13 Effect of n-3 polyunsaturated fatty acid containing phospholipids from squid mantle muscle on triglyceride metabolism in rats
(Kansai University¹, Bizen Chemical Co., Ltd.², Kansai Medical University³) FUKAO Midori¹, HOSOMI Ryota¹, KIMOTO Takashi², KANADA Teruyuki², NISHIYAMA Toshimasa³, YOSHIDA Munehiro¹, FUKUNAGA Kenji¹
- 2D-14 Effect of dietary fish protein on rat cholesterol metabolism
(Kansai University¹, Kansai Medical University²) HOSOMI Ryota¹, FUKUNAGA Kenji¹, KANDA Seiji², NISHIYAMA Toshimasa², YOSHIDA Munehiro¹

September 17th (Fri) AM: Food Chemistry, Others

9:00~9:45

- 3D-01 The importance of dietary choline in skin function of mice
(Showa Womens University¹, Koriyama Womens University²) OKABE Sayaka¹,
WATANABE Nakamichi¹, MIZUNO Tokiko², FUJIMOTO Kenshiro²
- 3D-02 The water barrier function of the skin with liquid oils.
(Noevir Co.,Ltd. Research and Development) KOIKE Toru, TORII Kousuke,
OKUMURA Hidenobu
- 3D-03 Anti-atopic dermatitis effects of oral administration of sphingolipids in NC hairless mice
(Obihiro University¹, Marudai Food company Ltd., Central Research Institute², Central
Laboratory Nippon Flour Mills Co³) TAKEUCHI Megumi¹, KAWAMURA Zyunn²,
HUTYUU Hidetaka², KODAMA Yoshirou², SUGIYAMA Masaaki², ONO Zisaburo³,
AIDA Kazuhiko³, SHIMIZU Hirokazu³, KINOSHITA Mikio¹, OHNISHI Masao¹

9:45~10:45

- 3D-04 Improve effects of dietary glucosylceramide on skin barrier function in hairless mice
(Kyoto University¹, Nippon Flour Mill Co., Ltd.²) DUAN Jingjing¹, AIDA Kazuhiko²,
HIROSE Mayumi¹, SUGAWARA Tatuya¹, HIRATA Takashi¹
- 3D-05 A novel inhibitory mechanism of carotenoids on degranulation of mast cells
(Kyoto University¹, Hiroshima University²) SAKAI Shota¹, SUGAWARA Tatuya¹,
MATSUBARA Kiminori², HIRATA Takashi¹
- 3D-06 Identification of glucosylceramides containing sphingatrienine in maize and rice using ion
trap mass spectrometry
(Kyoto University¹, Kyoto University², Nippon Flour Mill Co., Ltd.³) SUGAWARA Tatuya¹,
DUAN Jingjing¹, FUJII Aoki², AIDA Kazuhiko³, HIRATA Takashi¹
- 3D-07 Comparison of indirect and direct quantification for glycidol fatty acid esters in edible oils
(Kao Corporation) SHIMIZU Masao, KUDO Naoto, SHIRO Hiroki, MASUKAWA Yoshinori,
KATSURAGI Yoshihisa, YASUMASU Takeshi

10:45~11:30

- 3D-08 LC-MS/MS analysis of lipid glycation end products in human blood
(Tohoku University¹, Industrial Tech. Institute, Miyagi Pref. Gov.², Nippon Medical School³)
NAKAGAWA Kiyotaka¹, SHOJI Naoki², ASAI Akira³, MIYAZAWA Teruo¹
- 3D-09 Glycation of phosphatidylethanolamine under hyperglycemic conditions
(Tohoku University) SOOKWONG Phumon, NAKAGAWA Kiyotaka, FUJITA Ikuko,
MIYAZAWA Teruo
- 3D-10 The accumulation of plant sterols obtained from Aloe vera in rats.
(Tohoku University¹, Morinaga Milk Industry Company²) ISHIKAWA Ayako¹, INOUE Nao¹,
TSUDUKI Tsuyoshi¹, IKEDA Ikuo¹, TANAKA Miyuki², YAMADA Muneo²

11:30~12:15

- 3D-11 Evaluation on the anti-angiogenic activity of marine algal carotenoids
(Kyoto University¹, Hiroshima University², NOF Corporation³) PONESAKKI Ganesam¹,
MATSUBARA Kiminori², OHKUBO Takeshi³, TANAKA Yukihiisa³, SUGAWARA Tatyua¹,
HIRATA Takashi ¹
- 3D-12 Gamma tocotrienol targets prostate cancer stem cells to enhance chemotherapeutic response
and reduce tumorigenicity
(Australian Prostate Cancer Research Centre-Queensland Institute of Health and Biomedical
Innovation¹, Davos Life Science, Cancer Research Laboratory²) MT Ling¹ · YL Yap²
- 3D-13 *In vivo* evidence of gamma-tocotrienol as a chemosensitizer in the treatment of hormone
refractory prostate cancer
(Davos Life Science, Cancer Research Laboratory¹, The University of Hong Kong², Australian
Prostate Cancer Research Centre-Queensland Institute of Health and Biomedical Innovation³)
WN Yap¹, N Zaiden¹, Luk SY², DTW Lee², YC Wong², MT Ling³, YL Yap¹

Room E (Lecture Building, 2F, Room7)

September 15th (Wed) PM: Biochemistry, Biotechnology

14:00~14:45

- 1E-01 Lipase-catalyzed transesterification with vinyl acetate: Effect of substrate concentration on
resolution data
(Tokai University) HIRATA Hirofumi
- 1E-02 Transphosphatidylation of vitamin B group and their anti-inflammatory effect
(Hokkaido University) SAWADA Ryo, HOSOKAWA Masashi, MIYASHITA Kazuo
- 1E-03 Production and characterization of the glycolipid biosurfactants from sugarcane juice by
Ustilago scitaminea NBRC 32730
(Tokyo University of Science¹, National Institute of Advanced Industrial Science and
Technology(AIST)², Okinawa Prefectural Agricultural Research Center³)
ISHIBASHI Yuko¹, MORITA Tomotake², HIROSE Naoto³, FUKUOKA Tokuma²,
IMURA Tomohiro², SAKAI Hideki¹, ABE Masahiko¹, KITAMOTO Dai²

14:45~15:30

- 1E-04 The gene cluster for biosynthesis of glycolipid biosurfactants, mannosylerythritol lipids
(National Institute of Advanced Industrial Science and Technology (AIST))
MORITA Tomotake, FUKUOKA Tokuma, IMURA Tomohiro, KITAMOTO Dai,
- 1E-05 Production and characterization of mannosylerythritol lipids with unsaturated fatty acids
(Tokyo University of Science¹, Advanced Industrial Science And Technology²)
KAWAMURA Daisuke¹, MORITA Tomotake², FUKUOKA Tokuma², IMURA Tomohiro²,

SAKAI Hideki¹, ABE Masahiko¹, KITAMOTO Dai²

- 1E-06 Conversion of arachidonic acid to C20:4 fatty alcohol by a new microorganism
(Osaka Municipal Technical Research Institute)
NAGAO Toshihiro, SHIZUMA Motohiro, WATANABE Yomi, SHIMADA Yuji

15:30~16:30

- 1E-07 Absorption of conjugated linoleic acid in human
(Tohoku University) SATO Ketna, TSUDUKI Tsuyoshi, IKEDA Ikuo,
- 1E-08 Change in life span of SAMP8 mouse that takes fish oil
(Tohoku University) TSUDUKI Tsuyoshi, HONMA Tarou, NAKAGAWA Kiyotaka,
IKEDA Ikuo, MIYAZAWA Teruo
- 1E-09 Cytotoxic effect of conjugated trienoic fatty acids in plant seed oil
(Tohoku University) SHINOHARA Nahoko, TSUDUKI Tsuyoshi, IKEDA Ikuo
- 1E-10 Relationship between structure of eicosapentaenoic and docosahexaenoic acid bounded
phospholipids and antiangiogenic property
(Hokkaido University¹, Hiroshima University², NOF Corporation³, Lipid Lab.⁴)
TSUSHIMA Tadahiro¹, MATSUBATA Kiminori², OHKUBO Takeshi³,
TAKAHASHI Koretaro¹,INOUE Yoshikazu⁴

16:30~17:30

- 1E-11 Cytotoxic and apoptosis-inducing activities of limonoids from neem (*Azadiracta indica* A.
Juss.) seeds
(College of Science and Technology Nihon University, College of Pharmacy Nihon University)
KIKUCHI Takashi¹, ISHII Kouichi¹, TAKAHASHI Akitomo¹, NOTO Taisuke¹,
TABATA Keiichi², SUZUKI Takashi², AKIHISA Toshihiro¹
- 1E-12 Protective effects of fucoxanthin and fucoxanthinol on UVA-induced photoaging in
hairless mice
(Kyoto University) URIKURA Itaru, SUGAWARA Tatsuya, HIRATA Takashi,
- 1E-13 Inhibitory effect of topical glucosylceramide on skin photoaging in UVA irradiated hairless
mouse
(Graduate School of Agriculture, Kyoto University¹, Nippon Flour Mills Co.,Ltd.²)
SHIMADA Eriko¹, AIDA Kazuhiko², SUGAWARA Tatsuya¹, HIRATA Takashi¹
- 1E-14 Paprika carotenoids regulates adipocytokine secretion in 3T3-L1 adipocyte cells
(Faculty of agriculture and life science Hirosaki University¹, Graduate school of fisheries
science & faculty of fisheries Hokkaido university²) ABE Minako¹, SAITOU Shuuichi¹,
KATAGATA Yohtarou¹, HOSOKAWA Masashi², MIYASHITA Kazuo², MAEDA Hayato¹

September 16th (Thur) AM: Biochemistry, Biotechnology

9:00~9:45

- 2E-01 Effect of brown algal carotenoids on unsaturated fatty acid metabolism
(Hiroshima University¹, Hokkaido University²) AKI Tsunehiro¹, YAMAMOTO Masaya¹,
TAKAHASHI Toshiaki¹, KAWAMOTO Seiji¹, HOSOKAWA Masashi², MIYASHITA Kazuo²,
ONO Kazuhisa¹
- 2E-02 Studies on sphingolipids from the skin of the jumbo flying squid *Dosidicus gigas*
(Shiga Univ¹, Ritsumeikan Univ.², Aomori Indus. Tech. Res. Center³, Fish. Res. Agency⁴)
NOZAKI Hitoshi¹, HARAHAHA Taka¹, HASHIMOTO Kyohei¹, NISHIO Masashi²,
KOJIMA Hisao², ISHIKAWA Satoru³, SAITO Hiroaki⁴, ITO Masahiro², SUGITA Mutsumi¹,
ITONORI Saki¹
- 2E-03 Structure analysis of ceramide phosphoethanolamine and sphingomyelin from the european
honeybee *Apis mellifera* (male drone 20-days-old).
(Dept. of Bioinfo., Graduated School of Sci. and Eng., Ritsumeikan Univ.¹, Yamada
Apiculture Center, Inc.², Dept. of Chem., Faculty of Lib. Arts and Ed., Shiga Univ.³)
NISHIO Masashi¹, KOJIMA Hisao¹, HASHIMOTO Ken², TATEFUJI Tomoki²,
TERAUCHI Kaori², ITONORI Saki³, SUGITA Mutsumi³, ITO Masahiro¹

9:45~10:30

- 2E-04 Analysis of coronary atherosclerosis by imaging mass spectrometry
(Hamamatsu University School of Medicine¹, Osaka University², National Cardiovascular
Center³) ZAIMA Nobuhiro¹, HIRANO Ken-ichi², IKEDA Yoshihiko³, UEDA Hatsue³,
SETOU Mitsutoshi¹,
- 2E-05 Production of conjugated polyunsaturated fatty acids by anaerobic bacteria
(Kyoto University) PARK Si-Bum, KISHINO Shigenobu, YOKOZEKI Kenzo, OGAWA Jun,
SHIMIZU Sakayu
- 2E-06 Analysis of enzymes involved in conjugated linoleic acid production by lactic acid bacteria
(Kyoto University) KISHINO Shigenobu, PARK Si-Bum, YOKOZEKI Kenzo, OGAWA Jun,
SHIMIZU Sakayu

September 14th (Fri) AM: Environmental Chemistry, Resource Chemistry

9:00~10:00

- 3E-01 Defluorination of recalcitrant organic substances by advance oxidation processes
(Meisei University, GESC) Hidaka Hisao, KOIKE Takayoshi, HUIJIMOTO Takashi,
MACHINAMI Tomoya, HORIUCHI Teruo, OYAMA Toshiyuki
- 3E-02 Environmentally friendly hydrogen production from glycerin by steam reforming
(Kao Corporation) SHIRASAWA Takeshi, KUMITA Yasukazu, AMISHIGE Yasuo,
TATSUMI Nobuhiro

- 3E-03 Study on pyrolysis of waste cooking oil for biodiesel production
(Nihon University) SAKURAI Yusuke, ITO Takuya, KAKUTA Yusuke, SUGANO motoyuki,
HIRANO Katumi
- 3E-04 Methyl esterification of triacylglycerol with *Candida rugosa* lipase immobilized on
chitopearl for biodiesel fuel production
(Graduate school of Science and) KANEKO Tatsuya, HUKATSU Makoto

September 14th (Fri) AM: Organic Chemistry, Petro Chemistry

10:00~11:15

- 3E-05 Nitroxide-mediated photo-living radical polymerization of methyl methacrylate using
sulfonium-based photo-acid generator
(Toyohashi University of Technology) YOSHIDA Eri
- 3E-06 Metal cation recognition of fluorescence responsive monoaza lariat ethers by using
excimer emissions of two pyrene moieties
(Osaka Institute of Technology) OKA Tomoya, NAKAMURA Misako, NAKAMURA Misako,
NAKATSUJI Yohji
- 3E-07 An efficient manufacturing process of methyl ester ethoxylate (MEE)
(Lion Corporation¹, Lion chemical Corporation²) ITO Yutaka¹, YOSHII Tohru¹, HOSOKAWA
Yasutaka¹, UEMURA Shingo², MATSUMOTO Yoshiyuki², MAENO Katsuhiko¹
- 3E-08 Preparation of glycerol monobenzyl ethers via the selective etherification of glycerol and
benzyl alcohols
(LION CORPORATION¹, Osaka Institute of Technology²) KUBOTA Mari¹, SAKAMOTO Aki¹,
KOMATSU Masanori¹, MAENO Katsuhiko¹, MASUYAMA Araki²
- 3E-09 GC/MS analysis of stable isotope labeled palmitic acids
(Tohoku University) HIRAKATA Kazuma, KIMURA Fumiko, MIYAZAWA Teruo

Room F (Research Building #2, 1F, Room W103)

September 16th (Thur) AM: Analytical Chemistry

9:00~9:45

- 2F-01 Development of a novel determination method of acid value for rice bran oil containing
 γ -oryzanol
(Seikei University) KANDA Ayato, TAMARI Naoko, TOTANI Yoichiro, HARA Setsuko
- 2F-02 Study on the analytical method for the peroxide value in colored fats and oils
(Tokyo University of Marine Science and Technology) MIYAKE Shino, TAKEI Hiroko,
SASAKI Kumi, ISHINAGA Michitaka, YAMAGUCHI Kaita, OKUDA Saori,
GOTOH Naohiro, WADA Shun

- 2F-03 Analysis of eicosanoids by cyclodextrin - modified micellar electrokinetic chromatography
(Faculty of Fisheries Science, Hokkaido University¹, Toyama Institute of Health²)
TAKEMOTO Ryota¹, KODAMA Shuji², ITABASHI Yutaka¹

9:45~10:30

- 2F-04 Analyses of β -AAB/ β -ABA and β -ABC/ β -BCA/ β -CAB-type triacylglycerol positional isomers in edible oils and fats by reversed-phase HPL coupled to APCI-MS/MS
(Tsukishima Foods Industry Co., Ltd.¹, Tokyo University of Marine Science and Technology², GL Sciences Inc.³) NAGAI Toshiharu¹, MIZOBE Hoyo¹, OTAKE Ikuko¹, KOJIMA Koichi¹, MATSUMOTO Yumiko², GOTOH Naohiro², KURODA Ikuma³, WADA Shun²
- 2F-05 Generalization of the quantitative method to measure glycidol fatty acid esters in edible oils
(Kao Tochigi laboratories¹, Kao Tokyo laboratories²) SHIRO Hiroki¹, MASUKAWA Yoshinori¹, KONDO Naoki¹, KUDO Naoto²
- 2F-06 Determination of enantiomeric glycidol fatty acid esters in edible oils by column-switching HPLC/MS
(Faculty of Fisheries Sciences, Hokkaido University¹, Hokkaido Institute of Public Health², National Research Institute of Fisheries Science³, Kanagawa Institute of Technology⁴, Graduate School of Medical Sciences and Medical School, Nagoya City University⁵)
YOSHIOKA Satoshi¹, NISHIMURA Kazuhiko², SUZUKI Toshiyuki³, TAKAMURA Takeji⁴, SUZUI Masumi⁵, TSUDA Hiroyuki⁵, ITABASHI Yutaka¹

September 17th (Fri) AM: Analytical Chemistry

9:00~10:00

- 3F-01 Analysis of triacylglycerol positional isomers contained in marine organisms
(Tokyo University of Marine Science and Technology¹, Tsukishima Foods Industry Co., Ltd.², GL Sciences Inc.³) MSTSUMOTO Yumiko¹, GOTOH Naohiro¹, ZHAO Dongna¹, JIANG Yanying¹, NAGAI Toshiharu², MIZOBE Hoyo², OTAKE Ikuko², KURODA Ikuma³, KOJIMA Koichi², Wada Shun¹
- 3F-02 GLC analysis of cis-icosenoic acid positional isomers on an ionic liquid stationary phase
(Hokkaido University) ANDO Yasuhiro, SASAKI Tsubasa
- 3F-03 NMR Analysis of poly(alkylene oxide) derivative
(NOF CORPORATION) MASHITA Takehiro
- 3F-04 Effect of terpenes on stratum corneum studied by EPR spin-probe method
(Fukushima Medical University¹, Nihon Pharmaceutical University²)
NAKAGAWA Kouichi¹, ANZAI Kazunori²

10:00~11:00

- 3F-05 Visualization of ceramide in footpad skin by imaging mass spectrometry
(Hamamatsu Univ. Sch. of Med.¹, UCSF²) GOTO-INOUE Naoko¹, UCHIDA Yoshikazu²,

HAYASAKA Takahiro¹, ZAIMA Nobuhiro¹, SETOU Mitsutoshi¹

- 3F-06 Imaging of metabolites in mouse tongue by MALDI mass spectrometry
(Hamamatsu University School of Medicine) ENOMOTO Hirofumi, SETOU Mitsutoshi,
ZAIMA Nobuhiro
- 3F-07 Visualization of fatty acids by imaging mass spectrometry using silver nanoparticles
(Hamamatsu University School of Medicine¹, Osaka Municipal Technical Research Institute²)
HAYASAKA Takahiro¹, GOTO-INOUE Naoko¹, ZAIMA Nobuhiro¹, SHRIVAS Kamlesh¹,
KASHIWAGI Yukiyasu², YAMAMOTO Mari², NAKAMOTO Masami², SETOU Mitsutoshi¹
- 3F-08 Development of the direct thin layer chromatography by the penning ionization / mass
spectrometry (TLC-APPEI/MS) under the argon gas atmospheric pressure
(Kanagawa University) MOCHIDA Yoshiyuki, YAMAUCHI Hironobu, MIYAKAWA Takaaki,
KOIDE Yoshihiro

11:00~12:00

- 3F-09 Improvement and validation of 125 I -HPLC method to determine plasmalogen in serum
(ADEKA corporation¹, Teikyo university²) YAMAZAKI Yuya¹, MAEBA Ryota²,
NEDZU Toru¹, OKAZAKI Tomoki²
- 3F-10 Determination study of sphingolipids using post-column HPLC with OPA derivatization
(Japan Food Research Laboratories¹, Mimasaka University²) GOTO Hirofumi^{1,2},
NISHIKAWA Keiko¹, SHIONOYA Noriko¹, TANIGUCHI Makoto², IGARASHI Tomoji¹,
HIRATA Yoshiaki¹
- 3F-11 Validation of HPLC-ELSD method for quantitative analysis of plant glucosylceramides
(Nippon Flour Mills CO.,LTD. ; The United Graduate School of Agricultural Sciences, Iwate
University ¹, Nippon Flour Mills CO.,LTD. ², The United Graduate School of Agricultural
Sciences, Iwate University ; Obihiro University of Agriculture and Veterinary Medicine³,
Nagara Science CO.,LTD.⁴) MIYASHITA Rumiko¹, NARA Masayo ², KINOSHITA Mikio ³,
AIDA Kazuhiko², NAKATSUKA Shin-ichi⁴, SHIMIZU Hirokazu ², OHNISHI Masao³
- 3F-12 Determination of total phenolic compounds in cinnamon powder by near infrared spectroscopy
(Silpakorn University) PRAMOTE Khuwijitjaru, PAWADEE Bungutum, YUPADEE
Denkrajang, PARIKA Rungpichayapichet, BUSARAKORN Mahayothee

Room G (Marine Science Building, 1F, Open Space)

September 15th (Wed) PM: Oil and Fat Chemistry, Lipid Chemistry

14:00~15:00

- 1G-01 Study on the oxidative stability of triacylglycerol positional isomers
(Tokyo University of Marine Science and Technology¹, Tsukishima Foods Industry Co., Ltd.²)
GOTOH Naohiro, YAMAGUCHI Kaita¹, MASHIMO Daisuke¹, MIZOBE Hoyo², NAGAI
Toshiharu², OTAKE Ikuko², KOJIMA Koichi², WADA Shun¹

- 1G-02 Evaluation of anti-oxidative activity of caffeic acid derivatives
(Seikei University) KOJIMA Hiroto, TOTANI Yoichiro, HARA Setsuko
- 1G-03 Oxidation behaviors of conjugated linolenic acid methyl esters under the various oxidation conditions
(Seikei University) TANIYASU Ryo, KANDA Ayato, TOTANI Yoichiro, HARA Setsuko
- 1G-04 Anti-oxidative effect of polyphenol compounds on powdered oils and fats
(Seikei University¹, MIYOSHI OIL & FAT CO.,LTD.²) UMEZAWA Masatoshi¹, KOIWAI Sumika¹, SUGIMOTO Kazushige², ISHIGURO Takashi², TOTANI Yoichiro¹, HARA Setsuko¹)

15:00~16:00

- 1G-05 Preparation of structured triacylglycerols by enzymatic acidolysis reaction of plant oils
(Seikei University) YASUDA Manabu, KANDA Ayato, TOTANI Yoichiro, HARA Setsuko
- 1G-06 Preparation of solid fat by enzymatic transesterification of plant oils
(Seikei University) TAIRA Yukiko, KANDA Ayato, TOTANI Yoichiro, HARA Setsuko
- 1G-07 Solution property of mixed food emulsifier system –Monoacylglycerol–poly(oxyethylene) sorbitan fatty acid ester –
(MIYOSHI OIL & FAT CO.,LTD¹, Tokyo Univ. of Sci. Professor Emeritus²) HORIUCHI Kimiko¹, MIKIYA Yumi¹, NAKANISHI Kengou¹, ISHIGURO Takashi¹, OGINO Keizou²
- 1G-08 Physicochemical properties of biomimetic membranes by AFM, FFM and QCM-D
(Faculty of Science and Technology, Tokyo Univ. of Sci.) OGUCHI Takakuni, SAKAI Kenichi, SAKAI Hideki, ABE Masahiko

16:00~16:45

- 1G-09 The spherulite structures of palm olein analysed by synchrotron radiation microbeam X-ray diffraction
(Hiroshima University) UENO Satoru, OHGI Naomi, SATO Kiyotaka
- 1G-10 Scanning microbeam small-angle X-ray diffraction study of gelator crystals in rice bran wax-vegetable oil organogels
(Hiroshima University¹, Global Agritech Inc.,²) DASSANAYAKE Lakmali Samuditha Kumari¹, KODALI Dharma R.², UENO Satoru¹, SATO Kiyotaka¹
- 1G-11 Precipitation kinetics of phytosterols in O/W emulsion droplets
(Hiroshima University) TATSUMI Yasuko, UENO Satoru, SATO Kiyotaka

16:45~17:45

- 1G-12 Polymorphic behavior of mixed-acid triacylglycerols including omega-3 polyunsaturated fatty acids : binary behavior of S-ALA-S and POS
(Hiroshima University¹, TSUKISHIMA FOODS INDUSTRY CO.,LTD², Tokyo University of Marine Science and Technology³) KIGAWA Tomoe¹, SATO Kiyotaka¹, UENO Satoru¹, MIZOBE Hoyo², KOJIMA Koichi², TSURUMI Koichi², GOTOH Naohiro³, WADA Shun³
- 1G-13 Synchrotron radiation X-ray diffraction study of crystallization processes of cocoa butter under temperature variation and shear
(Graduate school of biosphere science Hiroshima university¹, Meiji Seika Kaisha Ltd.²) OBA Kenji¹, UENO Satoru¹, SATO Kiyotaka¹, KOYANO Tetsuo², KUWANO Yutaka², NAGASHIMA Hirokazu², KUNIKATA Fumika², NAGAYAMA Takako²
- 1G-14 Effect of emulsifiers and additives for stability in O/W emulsions
(Graduate school of biosphere sciences Hiroshima University¹, MITSUBISHI-KAGAKU FOODS CORPORATION², Faculty of applied biological science, Hiroshima University³) MATSUMOTO Shintaro¹, UENO Satoru¹, SATO Kiyotaka¹, OGAWA Akihiro², ARIMA Satoshi², TENMA Kazutomo³
- 1G-15 Effect of freezing-thawing treatment on the physicochemical properties of O/W emulsion
(Iwate University) MIURA Makoto, SATO Arisa

September 16th (Thu) AM: Oil and Fat Chemistry, Lipid Chemistry

9:00~10:15

- 2G-01 Fatty acid composition of deep-sea crustacean *Shinkaia crosnieri* with its symbiotic bacteria
(National Research Institute of Fisheries Science) SAITO Hiroaki
- 2G-02 Eicosanoids from the red alga *Gracilaria vermiculophylla*
(Hokkaido University) NISHIKAWA Tatsuya, SUZUKI Nobuya, FUSETANI Nobuhiro, ITABASHI Yutaka
- 2G-03 The mechanism of weight-loss promoting effects of oil heated with vegetable protein
(Kobe-Gakuin University) TOTANI Nagao, TATEISHI Sayuri
- 2G-04 Effect of sea cucumber cerebroside on the lipid metabolism in fatty liver rats
(College of Food Science and Technology, Ocean University of China) WANG Yu-Ming, ZHANG Bei, XUE Chang-Hu
- 2G-05 The extraction and refining of rice bran oil using ethanol
(Lipid Labo¹, Satake Cooperation²) INOUE Yoshikazu¹, KANEMOTO Shigeharu²

Poster Session Room H (Arena)

September 16th (Thur 10:00 – 11:30)

- P-01 Epoxidation of olefins with aqueous oxone in the presence of functional amphiphilic resins
(Osaka Institute of Technology) KANO Ryo, HOSOKAWA Hisayoshi, OKADA Tomohisa,
MASUYAMA Araki
- P-02 Preparation of glycerol monoalkyl ethers
(Osaka Institute of Technology) SHIBATA Kei, MASUYAMA Araki
- P-03 Ozonolysis of α -olefins in the presence of glycerol
(Osaka Institute of Technology) ASAHARA Keita, MASUYAMA Araki
- P-04 Synthesis and properties of novel aminomethylphosphonic acid type gemini surfactants
(Miyoshi Oil & Fat.Co.,LTD¹. Department of Pure and Applied Chemistry in Faculty of
Science and Technology, Tokyo University of Science²) TERADA Kazuhiro¹,
TAKAMATSU Yuichiro¹, OGAWA Takashi¹, SUGIYAMA Katsushi¹, SAKAI Kenichi²,
SAKAI Hideki², ABE Masahiko²
- P-05 Synthesis of gemini surfactant using McMurry coupling
(Kyoto Institute of Technology) TAKAMIYA Yayoi, OIDA Tatsuo, KAWASE Tokuzo
- P-06 Mono-dispersed linear polyglycerol surfactants ; the influence of glycerol chain number,
and the optically active derivative
(Kyoto Institute of Technology) MINAMI Ayumi, YAMAGUCHI Kohei, OIDA Tatsuo,
KAWASE Tokuzo
- P-07 Preparation and properties of 1,2,3,4-butanetetracarboxylic acid type gemini surfactants
with semifluoroalkyl groups as a hydrophobic group
(Kyoto Institute of Technology) NOMURA Yoshifumi, OIDA Tatsuo, KAWASE Tokuzo
- P-08 Synthesis and detergency performance of amine oxide type surfactants with various
substituents
(Osaka Municipal Technical Research Institute) YAMAMURA Shingo, TOKAI Naoji,
KAKEHASHI Rie
- P-09 Synthesis and hydrogelation of amine oxide type surfactants based on L-phenylalanine
(Osaka Municipal Technical Research Institute) TOKAI Naoji, KAKEHASHI Rie,
YAMAMURA Shingo
- P-10 Dicarboxylate gemini surfactant based on 1,2,3,4-butanetetracarboxylic acid: distribution
and surface properties of the regioisomers
(Kyoto Institute of Technology) HUYNH Ngoc Chau, OIDA Tatsuo, KAWASE Tokuzo
- P-11 The solubilization of liposomes by zwitterionic gemini surfactants
(Kitasato University) MINAMI Hideyuki, WARASHINA Yuri, NISHIZUKA Fumiaki,
IWAHASHI Makio

- P-12 Preparation method for solubilizing hydrophilic compound into oil phase without water and emulsifiers
(Hokuriku University¹, Yokohama Oils & Fats Industry Co.,Ltd.²) NISHIMON Yuki¹, HATANAKA Junya², KOGA Kenjiro¹
- P-13 Secondary structural changes of myoglobin and bovine serum albumin at high temperatures and effects of SDS on the changes
(Okayama University of Science¹, Muromachi Chemicals Inc.) MORIYAMA Yoshiko WATANABE Emi, TAKEDA Kunio
- P-14 Dynamic processes of solubilization of oleic acid by fatty acid methyl ester ethoxylates (LION Corp.) KOBAYASHI Chika, KANEKO Yukihiro, OKANO Tomomichi
- P-15 Synthesis of gold nanoflowers by long-chain amidoamine derivative
(Tokyo University of Science) IMURA Yoshiro, MORITA Clara, TANUMA Hiromitsu, ENDO Hiroshi, KAWAI Takeshi
- P-16 Effect of enzyme treatment on electrophoresis of red blood cell
(Tokyo University of Science) TAI Satoru, HYONO Atsushi, TAKATA Youichi, OHSHIMA Hiroyuki
- P-17 Study on adsorption behavior of ionic liquid at air/water and oil/water interface
(Tokyo University of Science) TOMIKURA Kohei, SENBO Hiroshi, TAKATA Youichi, OHSHIMA Hiroyuki
- P-18 Preparation of liposomes including glycolipid biosurfactants and their physicochemical interaction with serum proteins
(Faculty of Science and Technology, Tokyo University of Science¹ · National Institute of Advanced Industrial Science and Technology (AIST)²) NAKAMURA Junichi¹, ITOH seya¹, HUKUOKA Tokuma², MORITA Tomotake², IMURA Tomohiro², SAKAI Hideki¹, ABE Masahiko¹, KITAMOTO Dai²
- P-19 Synthesis and aqueous solution properties of novel biodegradable gemini surfactants containing carboxylic groups
(Miyoshi Oil & Fat.Co.,LTD.¹, Department of Pure and Applied Chemistry in Faculty of Science and Technology, Tokyo University of Science²) TAKAMATSU Yuichiro¹, OGAWA Takashi¹, SUGIYAMA Katsushi¹, SAKAI Kenichi², SAKAI Hideki², ABE Masahiko²
- P-20 A thermal study of micelle formation of sodium alkyl sulfates in water
(University of Shizuoka) SAHARA Hideko, HARADA Shigeharu,
- P-21 Micelle formation of sulfide linked bola surfactant
(Kanazawa University) ICHIMURA Keita, ASAKAWA Tsuyoshi, OHTA Akio
- P-22 Hydrolysis of ionized deoxycholic acid into benzene phase across the benzene/water interface(II)
(Daiichi Pharmaceutical Sciences) TANAKA Ryo, OHNO Ryo, YAMASHITA Teruyo MOROI Yoshikiyo, OGAWA Kenji

- P-23 Development of new sunscreen agent containing high concentration of UVA absorber having the property of preventing its recrystallization
(Para Hermosa Co.,Ltd.¹, Keio Univ.², Cosmetech Co.,Ltd.³) ENDO Mayu¹, MAEZAWA Daisuke^{1,2}, SATO Nobumasa^{1,3}, KURODA Akihiro^{2,3}, ASAKURA Kouichi²
- P-24 Highly concentrated microemulsions induced by poly(alkylene glycol) derivative and their applications.
(NOF Corporation) WAKITA Kazuaki,
- P-25 Thermo-responsive structural color of a long-chain amidoamine derivative/toluene/water system
(Tokyo University of Science) AOYAMA Tetsuya, MORITRA Clara, IMURA Yoshiro, ENDO Hiroshi, KAWAI Takeshi
- P-26 Aggregation behavior of double-tailed surfactant generated by thiol-disulfide exchange
(Kanazawa University) ECHIZEN Yutaka, ASAKAWA Tsuyoshi, OHTA Akio
- P-27 Aqueous solution properties of imidazolium type surfactants
(Kanazawa University) UNO Satoshi, ASAKAWA Tsuyoshi, OHTA Akio
- P-28 Salt concentration effect on surfactant adsorption behavior of soluble surfactants at the air-solution interface
(Nagasaki International University) NAKAHARA Hiromichi, MOROI Yoshikiyo, SHIBATA Osamu
- P-29 Physical properties in aqueous solution for a series of gemini surfactants
(Nagoya Institute of Technology) SETSU Hei, TAKAHASHI Hiroko, YAMAMOTO Yasushi, TAGA Keijiro
- P-30 Development of novel bio-based polymers using glyceric acid from raw glycerol
(National Institute of Advanced Industrial Science and Technology (AIST)) FUKUOKA Tokuma, HABE Hiroshi, KITAMOTO Dai, SAKAKI Keiji
- P-31 Lipid components, fatty acids and triacylglycerol molecular species of black and red rices
(Kobe Gakuin University) YOSHIDA Hiromi, TOMIYAMA Yuka, MIZUSHINA Yoshiyuki
- P-32 Study on recycle of shortening by adsorption method
(Kinki University¹, Tomita Pharmaceutical Co., Ltd.²) OGATA Fumihiko¹, AOYAMA Hideyuki², KOIZUMI Tomohide¹, TANIWAKI Takanori¹, KAWASAKI Naohito¹
- P-33 The influence of a small amount of chlorophylls in refined vegetable oil on quality of mayonnaise
(Kewpie Corporation) MATSUDA Hajime, KIGAWA Atsushi, KONDO Hajime, UCHIYAMA Nami, KOBAYASHI Hideaki
- P-34 Quantitation of palm vitamin-E constituents by high performance liquid chromatography
(Davos Life Science Pte Ltd, Tocotrienol Research Laboratory¹, College of Light Industry and Food Sciences, South China University of Technology², Yokohama City³) S Ong¹, CH Xu¹, VH Teo¹, WN Yap¹, N Zaiden¹, XW Zhang², S Shunichi³, YL Yap¹

- P-35 Determination of non polar compound content in oils using cartridge column and its application for evaluation of thermal deteriorated oils
(National Food Research Institute) TSUZUKI Wakako
- P-36 Effect of the interaction between trace amount of methylmercury and fish oil intakes on mice body and behavior
(National Food Research Institute, NARO¹, National Research Institute of Fisheries Science, Fisheries Research Agency²) SHIRAI Nobuya¹, YAMASHITA Yumiko², YAMASHITA Noriaki²
- P-37 Cooking method utilized the oxidative characteristics of quinoa seeds cultivated in yamanashi
(University of Yamanashi) HIROSE Yuko, IWAMA Takumi, NAGURA Tatsuya, SUZUKI Nozomi, SUZUKI Ayuko
- P-38 Chinese yam (*Dioscorea opposita*) tuber lipids :Composition and antiproliferation activity on human colonic carcinoma cell line, Caco-2.
(Obihiro University¹, Iwate University²) ARAI Katsuhito, YAMAZAKI Tamiko², TSUTSUMI Yukako, TSUTSUMI Asaka, TOKUJI Yoshihiko, KINOSHITA Mikio, OHNISHI Masao
- P-39 Occurrence of very long chain polyunsaturated fatty acids in the flesh lipids of roughscale sole (Hokkaido University) FUKUDA Yuuki, ANDO Yasuhiro
- P-40 Improvement of recovery and conversion of fatty acid 9-anthrylmethyl esters in base-catalyzed transesterification
(Hokkaido University) ABE Masahiro, SHINJO Asako, ANDO Yasuhiro
- P-41 Analysis of Glycan in Farm Products using BlotGlycoTM
(National Agricultural Research Center for Western Region¹, National Agricultural Research Center for Tohoku Region²) KAWASE Shin-ichiro¹, OHDAIRA Youichi²
- P-42 Development of technologies for deep flying processing and freshness keeping of food based on the ionic semiconductor
(Ion-Kagaku, Ltd.¹, Tokyo Metropolitan College of Industrial Technology²) KARINO Hitoshi¹, TAMURA Kenji²
- P-43 The effects of tocotrienols on TNF- α /GalN-induced steatohepatitis in rats.
(Kanagawa Institute of Technology) YACHI Rieko, MUTO Cjie, SAITO Kazuki, Igarashi Osamu, KIYOSE Chikako
- P-44 Regulative functions of lipid metabolism by hop polyphenol.
(Meiji University) UEMATSU Hiroki, YUI Kazuki, MUROI Keisuke, ISHII Hirokazu, BABA Minako, OSADA Kyoichi
- P-45 Regulative functions of lipid metabolism and antioxidant activity by dietary unripe or ripe apple
(Meiji University¹, EBARASHOKUHIN²) IWAKI Shingo¹, INUI Shusuke¹, AZUMA Tomohiro¹, ARIKAWA Yukari¹, OSADA Kyoichi¹, AIKURA Etsuko², NAGAI Yuki²,

- MIZOGUCHI Douzou², IMAI Hideaki²
- P-46 Mannosylerythritol lipids repair the damaged hair
(TOYOBO Tsuruga Institute of Biotechnology, TOYOBO Co. Ltd. Biochemical Department², Advanced industrial science and technology³) YAMAMOTO Shuhei¹, YANAGIDANI Shusaku¹, KITAGAWA Masaru², NISHIYA Yoshiaki¹, MORITA Tomotake³, FUKUOKA Tokuma³, IMURA Tomohiro³, KITAMOTO Dai³
- P-47 Clinical utility of lipoprotein subclass profiling by a rapid gel permeation HPLC
(Lipoprotein HPLC Analytical Project, Tokyo Medical and Dental University¹, Health Service Center, Tokyo Medical and Dental University², Life Science Center, Tokyo Medical and Dental University³, Faculty of Sciences, Toho University⁴, Geriatrics and Vascular Medicine, Tokyo Medical and Dental University⁵) OKAZAKI Mitsuyo¹, MIYAKE Shuji², AI Masumi³, YOSHIDA Masayuki³, YAMADA Shigeko⁴, IMAI Toshio⁴, KAWAMOTO Ryosuke⁵, SHIMOKADO Kentaro⁵
- P-48 Analysis of serum lipoproteins by a rapid gel permeation HPLC: comparison with CDC reference method
(Faculty of Sciences, Toho University¹, Osaka Medical Center for Health Science and Promotion², Geriatrics and Vascular Medicine, Tokyo Medical and Dental University³, Lipoprotein HPLC Analytical Project, Tokyo Medical and Dental University⁴) YAMADA Shigeko¹, IMAI Toshio¹, NAKAMURA Masakazu², TANAKA Akira³, KAWAMOTO Ryosuke³, TOMIE Naoko³, SHIMOKADO Kentarou³, OKAZAKI Mitsuyo⁴
- P-49 Determination of cytochrome P450 isozymes involved in the metabolism of (-)-*cis*- and (-)-*trans*-rose oxide by human liver microsomes
(Kinki University) MIYAZAWA Mitsuo, MARUMOTO Shinsuke, NAKAHASHI Hiroshi
- P-50 Biotransformation of dehydroepiandrosterone by plant cultured cells of caragana chamlagu
(College of Science and Thechnology, Nihon University¹, Chiba Institute of Thechnology², College of Pharmacy, Nihon University³, Rikkyo University⁴) SAKAMAKI Hiroshi¹, SAKAKURA Youko¹, ITHO Ken-ichi¹, TANIAI Tetuyuki², KITANAKA Susumu³, HORIUTI C. Akira⁴
- P-51 Nanoformulation for lung carcinoma cell target
(Tokyo University of Science¹, Center for Drug Delivery Research, Tokyo University of Science²) TOMODA Keishiro^{1,2}, HIROTA Keiji^{1,2}, NAKAJIMA Takehisa², TERADA Hiroshi^{1,2}, MAKINO Kimiko^{1,2}
- P-52 Phospholipase gene from *Moritella* sp. HFHI014
(YAMANO College of Aesthetics¹, TecnoSuruga Laboratory Co. Ltd.², Tokyo University of Marine Science and Technology³) KAMATA Masazumi¹, MOCHIZUKI Jun², YAZAWA Kazunaga³

- P-53 A DNA polymerase inhibitor from the crude extract of soybean (*Glycine max* L.):
 β -sitosteryl (6'-*O*-linoleoyl)-glucoside
 (Kobe-Gakuin University¹, J-Oil Mills Inc.², Tokyo University of Science³) HORIE Sho¹,
 MURATA Takeshi¹, OKUDA Chiaki¹, KURIYAMA Isoko¹, YAMASHITA Takatoshi²,
 WATANABE Kenichi², TAKEUCHI Toshifumi³, SUGAWARA Fumio³,
 MIZUSHINA Yoshiyuki¹, YOSHIDA Hiromi¹
- P-54 Inhibitory effects of sphingolipids on the activities of DNA polymerase and topoisomerase, and
 human cancer cell growth
 (Kobe-Gakuin University¹, Tokyo University of Science²) KAKEMIZU Mana, MURATA
 Takeshi, KURIYAMA Isoko, TAKEUCHI Toshifumi², SUGAWARA Fumio², MIZUSHINA
 Yoshiyuki¹, YOSHIDA Hiromi¹
- P-55 Toxic assessment of sophorolipid for aquatic species
 (Biochemical laboratory, Saraya Co. Ltd.) HIRATA Yoshihiko, ARAKI Michiaki,
 RYU Mizuyuki
- P-56 Characterization of a mutant strain of *Pseudozyma antarctica* defect on the formation of
 mannosylerythritol lipids
 (AIST) ITO Emi, MORITA Tomotake, FUKUOKA Tokuma, IMURA Tomohiro,
 KITAMOTO Dai
- P-57 Cytotoxic effect of sophorolipid on normal human keratinocytes
 (Biochemical laboratory, Saraya Co. Ltd.) HIRATA Yoshihiko, ARAKAI Michiaki,
 TAKIGAWA Tsuyoshi, RYU Mizuyuki, FURUTA Taro
- P-58 Production of polyunsaturated fatty acid by lipid-accumulating *Saccharomyces cerevisiae*
 (Bioproduction Research Institute, AIST) KIMURA Kazuyoshi, KAMISAKA Yasushi,
 UEMURA Hiroshi, YAMAOKA Masakazu
- P-59 The antidepressant effect of medium-chain fatty acids-containing dietary oil in mice
 (Central Research Laboratory, The Nisshin Oillio Group, Ltd.¹, Laboratory of Molecular
 Biology, Gifu Pharmaceutical University²,) SHINOHARA Hisami¹,
 FUKUMITSU Hidefumi², AOYAMA Toshiaki¹, SETO Akira¹, FURUKAWA Shoei²
- P-60 Antioxidant activity and active sites of ergothioneine
 (National Research Institute of Fisheries Science) SAITO Hiroaki
- P-61 Compositional analysis of bacterial lipids by MALDI-MS with a spiral ion trajectory
 (JEOL Ltd.) TERAMOTO Kanae, SATO Takafumi, UEDA Yoshihisa
- P-62 Accurate mass analysis of lipid by MALDI Spiral-TOFMS with a spiral ion trajectory.
 (JEOL Ltd.) SATO Takafumi, TERAMOTO Kanae, UEDA Yoshihisa
- P-63 Structural analysis of fats and oils and their oxidative products in Japanese traditional
 material "Yuton" by reactive pyrolysis-gas chromatography
 (Chubu University¹, Nagoya Institute of Technology²) OGAWA Takako¹, HONDA Takayuki¹,
 INAGAKI Tomohiro¹, ISHIDA Yasuyuki¹, TAKEDA Kunihiko¹, OHTANI Hajime²

- P-64 Characterization of vegetable oils using molecular ion mass spectrum for ion attachment mass spectrometry
(Tsurui Chemical Co., Ltd.¹, Canon Anelva Co.², Advanced Industrial Science and Technology³, Kanagawa University⁴, Data Analysis Laboratory⁵) MISHIMA Yuji¹, ONISHI Naomi¹, MARUYAMA Harumi², HINO Kenji², TSUGOSHI Takahisa³, SAITO Naoaki³, ONUKI Kiyomi⁴, NISHIMOTO Yuko⁴, MITSUI Toshiyuki⁵
- P-65 Separation and quantification of phospholipid classes by P-31 NMR
(Faculty of Fisheries Science, Hokkaido University¹, Industrial Research Limited, NZ²) TOSABAYASHI Ai¹, TERADA Yusuke¹, MACKENZIE Andrew², ITABASHI Yutaka¹
- P-66 Reversed-phase HPLC behavior of regioisomeric 1,2-diacylglycerols
(Faculty of Fisheries Science, Hokkaido University) ITABASHI Yutaka, AIZAWA Chisato
- P-67 Unusual fatty acid composition of the red alga *Gracilaria tikvahiae* cultured using deep seawater
(Hokkaido University¹, Kumejima Deep Sea Water Development²) KIM Gwang-Woo¹, NAKAMICHI Tsukasa², ASATO Itsuki², YASUI Hajime¹, ITABASHI Yutaka¹
- P-68 Analysis of isomeric conjugated fatty acids by micellar electrokinetic capillary electrophoresis
(Hokkaido University¹, Toyama Institute of Health²) OZAKI Hiromichi¹, KODAMA Shuji², ITABASHI Yutaka¹
- P-69 Effect of spring water on the fatty acid composition of skin lipids of NCN24 mouse model of atopic dermatitis
(Hokkaido Institute of Public Health¹, Hokkaido University²) NISHIMURA Kazuhiko¹, AOYANAGI Naoki¹, NAKAYAMA Kenji¹, UCHINO Eiji¹, KATOH Yoshinobu¹, ITABASHI Yutaka²
- P-70 Effects of molecular species composition on oxidative stability of α -linolenylglycerols
(Seikei University) KOBAYASHI Satomi, TOTANI Yoichiro, HARA Setsuko, KANDA Ayato
- P-71 Evaluation of anti-oxidative effects of ascorbic acid and its derivatives
(Seikei University) OGURI Chiho, TOTANI Yoichiro, HARA Setsuko
- P-72 Prevention of deterioration of frying oil by repeating addition of tocopherol
(Seikei University) YANAGAWA Yuka, TOTANI Yoichiro, HARA Setsuko
- P-73 Comparison of oxidative stability of conjugated linolenylglycerols having different molecular species
(Seikei University) IMORI Yuka, KANDA Ayato, TOTANI Yoichiro, HARA Setsuko
- P-74 Analytical problem of 3-MCPD and its esters
(UEDA OILS AND FATS MFG CO.,LTD.¹, Osaka Municipal Technical Research Institute²) KAZE Naoki¹, WATANABE Yomi², SATO Hirofumi², SHIZUMA Motohiro², YAMAMOTO Hiroshi¹, NAGAO Toshihiro²

- P-75 Extraction and fractionation of lipid components from starfish
(Fisheries Research Agency, National Research Institute of Fisheries Science¹, Hokkaido Research Organization, Fisheries Research Department, Central Fisheries Research Institute², Hokkaido Research Organization, Fisheries Research Department, Abashiri Fisheries Research Institute³) KANENIWA Masaki¹, ISHIHARA Kenji¹, MATSUSHIMA Ryoji¹, SUZUKI Toshiyuki¹, EBITANI Koji², NARITA Masanao³
- P-76 The determination of peroxide value of crude vegetable oils using potentiometric titration
(Japan Food Research Laboratories) MATSUDA Tomomi, FUKAYA Naoko, YOSHII Nobuhiko, IGARASHI Tomoji, HIRATA Yoshiaki
- P-77 Oxidation of phenolic antioxidants
(Tokyo Gakugei University) NAGAI Yukari, YOSHIHARA Nobutoshi, TAKIZAWA Yasuomi
- P-78 Equilibration of acyl migration on glycerolysophospholipid
(Hokkaido University) TSUSHIMA Tadahiro, NAITO Hirohisa, ITABASHI Yutaka, TAKAHASHI Koretarō
- P-79 One-pot synthesis of chalcones using supported reagents
(Nihon University¹, Shibaura Institute of Technology²) TAMURA Naoya¹, AOYAMA Tadashi¹, TAKIDO Toshio¹, KODOMARI Mitsuo²
- P-80 Solid-state CPL property of chiral π -conjugated carboxylic acid/amine-supramolecular organic fluorophore
(Kinki University¹, NAIST², University of Tokyo³) IMAI Yoshitane¹, NISHIGUCHI Noriaki¹, KINUTA Takafumi¹, NAKANO Yoko², HARADA Takunori³, SATO Tomohiro¹, FUJIKI Michiya², KURODA Reiko³, MATSUBARA Yoshio¹
- P-81 Emergence and photo-properties of the chiral nano-space controlled materials
(National Institute of Advanced Industrial Science and Technology¹, Sankyokosan Corporation²) HIRONAKA Toru¹, ARIMURA Takashi¹, HANAZAWA Yoshikazu²
- P-82 Chiral discrimination ability of C₂-symmetric chiral crown ether derivatives
(Osaka Institute of Technology) HASHIMOTO Takashi, NAKAMURA Misako, MURAOKA Masahiro, NAKATSUJI Yohji
- P-83 Inclusion complex formation between cyclodextrins and fatty Acid esters in organic solvents
(Osaka Institute of Technology¹, Graduate School of Engineering Osaka University) HOSHINO Kazuki¹, MURAOKA Masahiro¹, NAKATSUJI Yohji¹, KIDA Toshiyuki², AKASHI Mitsuru²
- P-84 Organic synthesis under hydrothermal conditions. Non-catalyzed friedel-crafts reactions in water
(Nagoya Institute of Technology) SHIMIZU Ayako, OKOCHI Sota, HIRASHITA Tsunehisa, ARAKI Shuki