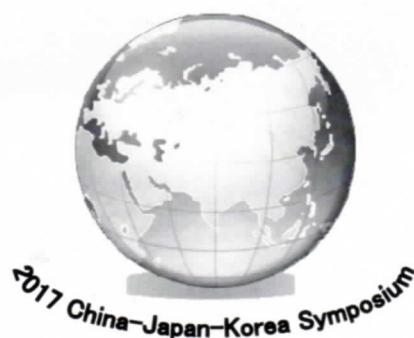


# **2017 Asia/CJK Symposium on Analytical Chemistry**

**The 14<sup>th</sup> China-Japan-Korea Symposium on  
Analytical Chemistry**



## **Program and Abstracts**

September 9 to 10, 2017  
Tokyo, Japan

Organized by:

Environmental Analysis, FIA, GC, IC and LC discussion groups

The Japan Society for Analytical Chemistry

China-Japan-Korea Analytical Science discussion groups

Supported by:

The Japan Society for Analytical Chemistry (JSAC)

## Welcome Message

On behalf of the organizing committee, we welcome all of you to the Asia and China-Japan-Korea Symposium on Analytical Chemistry (Asia/CJK-2017), which will be held at Science University of Tokyo, Katsushika, Tokyo, in the Annual Meeting of Japan Society for Analytical Chemistry from September 9<sup>th</sup> to 12<sup>th</sup>, 2017.

The CJK symposium on Analytical Chemistry is considered and designed to promote the interactions and communications among scientists working on a variety of aspects of analytical chemistry from China, Japan and Korea. In this Asia/CJK2017, Japan Society for Analytical Chemistry (JSAC) will hold the symposium in the 1<sup>st</sup> Annual meeting of JSAC that will be held by the JSAC headquarter. And the symposium will include stimulating plenary lectures and keynote presentations from the analytical scientists of three countries. In addition, special plenary lectures by the front line analytical sciences from UK, USA and Japan will be included. As a result, this symposium will be a strong promoter of international collaborations. We believe that this great event will provide all the participants a high-quality and intellectually stimulating venue. The symposium has received many abstracts from well-known scientists to junior researchers and students as well.

We appreciate the support of Japan Society for Analytical Chemistry for Asia/CJK-2017. We would also like to take this opportunity to express our sincere gratitude to all members of International Advisory Committee for their valuable advices and suggestions in various aspects, and to the organizer, Science University of Tokyo. We also thank the financial supports from Shimadzu (China) Co., Ltd. We hope that through the symposium you will turn inspiration into fruitful investigations, make new friends, and renew old friendship.

Finally, we really hope you will enjoy a wealth of cultural area of Tokyo city.

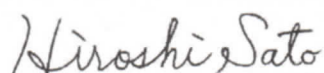
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Professor Katsumi Uchiyama



Secretary General:

Professor Hiroshi Sato



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Prof. Seong Ho KANG, Kyunghee University

Prof. Chang-Hee KANG, Jeju National University

Prof. Sunyoung BAE, Seoul Women's University

Prof. Joon Myong SONG, Seoul National University

Dr. Hye-Young SEO, World Institute of Kimchi

Prof. Yunje KIM, Korea Institute of Science and technology

Prof. Yongmoon LEE, Chungbuk University



**2017 Asia/CJK symposium**  
**September 9,10 at 101 102 of Lecture Hall Building 1F,**  
**Tokyo University of Science, Katsushika Campus**

September 9, Saturday

9:10-9:30	Opening Session
9:30-10:50	International Session I: Future Session (Plenary Lectures), 40 minutes each.(Room 101)
10:50-11:00	Coffee Break
11:00-12:20	International Session I: Future Session (Plenary Lectures), 40 minutes each.(Room 101)
12:20-13:20	Lunch
13:20-13:45	Opening (CJK) and Photo
13:45-15:15	Plenary Lecture (Room 101), 30 minutes each.
15:15-15:25	Coffee Break
15:25-16:05	Keynote Lecture 1,2 (Room 101,102), 20 minutes each.
16:05-16:50	Oral Presentation 1,2 (Room 101,102), 15 minutes each.
16:50-17:05	Coffee Break
17:05-17:45	Keynote Lecture 3,4 (Room 101,102), 20 minutes each.
18:15-18:45	Move to Monzennakamachi (Houseboat boarding reception) by Bus
19:00-21:30	Banquet on Yakatahune (Houseboat) (You can't disembark from a boat for 2 and a half hours)

September 10, Sunday

9:00-9:40	Keynote Lecture 5,6 (Room 101,102), 20 minutes each.
9:40-10:25	Oral Presentation 3,4 (Room 101,102), 15 minutes each.
10:25-10:40	Coffee Break
10:40-11:20	Keynote Lecture 7,8 (Room 101,102), 20 minutes each.
11:20-12:05	Oral Presentation 5,6 (Room 101,102), 15 minutes each.
12:05-14:00	Lunch and Poster Session
14:00-15:00	Keynote Lecture 9,10 (Room 101,102), 20 minutes each.
15:00-16:00	Oral Presentation 7,8 (Room 101,102), 15 minutes each.
16:00-16:20	Coffee Break
16:20-17:20	Keynote Lecture 11 (Room 101), 20 minutes each.
16:20-17:00	Keynote Lecture 12 (Room 102), 20 minutes each.
17:00-17:30	Oral Presentation 9 (Room 102), 15 minutes each.
17:20-17:30	Coffee Break (Room 101)
17:30-17:50	Closing Ceremony (Room 101)

2017 Asia/CJK symposium Program September 9

Lecture Hall Building 1F 101

Openig Session 09:10 to 09:30 Tetsuo Okada, Kazuo Miyamura, Xiurong Yang, Jaeho Ha

International Session I: Future Session (Plenary Lectures) Chair Koji Suzuki, Osamu Niwa

	Period	Lecture Title	Speaker	Affiliation
FS 1	09:30 - 10:10	Microfluidic sample preparation and sorting for single cell analysis	Prof. Abraham Lee	University of California at Irvine
FS 2	10:10 - 10:50	Analytical Chemistry for Monitoring the Brain	Prof. Adrian Michael	University of Pittsburgh
FS 3	11:00 - 11:40	Electrochemical Sensors: from screen-printed electrodes to graphene	Prof. Craig Banks	The Manchester Metropolitan University
FS 4	11:40 - 12:20	Innovating Microfluidics and Pioneering Nanofluidic	Prof. Takehiko Kitamori	The University of Tokyo

Openig Session(CJK) and Photo 13:20 to 13:45 Jin-Ming Lin, Jaeho Ha

Plenary Lecture 13:45 to 15:15 Chair

PL 1	13:45 - 14:15	Design and Application of Optical Enzyme Activity Detection and Immunoassay	Prof. Xiurong Yang	Changchuan Institute of Applied Chemistry
PL 2	14:15 - 14:45	How to analyze the volatile compounds in Kimchi	Dr. Jaeho Ha	World Institute of Kimchi
PL 3	14:45 - 15:15	Selective Adsorption of Specific Proteins via Polyoxometalates-Protein Interactions	Prof. Jian-Hua Wang	Research Center for Analytical Sciences, Department of Chemistry, Northeastern University

Keynote Lecture 1 15:25 to 16:05 Chair

KL 1	15:25 - 15:45	Fabrication of Polymeric Sorbents for Trace Analysis	Prof. Sunyoung Bae	Seoul Women's University
KL 2	15:45 - 16:05	Rapid, Selective and Quantitative Visual Detection of Chloride based on CsPbBr <sub>3</sub> Perovskite Quantum Dots Ion Exchange	Prof. Xi Chen	Department of Chemistry, College of Chemistry and Chemical Engineering Xiamen University

Oral Presentation 1 16:05 to 16:50

OP 1	16:05 - 16:20	Speciation and structure analysis of <i>N</i> -methylimidazole and acetic acid equimolar mixture as <i>pseudo</i> -protic ionic liquid toward specific proton conduct mechanism; Super Arrhenius proton conduction	Hikari Watanabe	Niigata university
OP 2	16:20 - 16:35	Lithium ion local structure and liquid structure in non-equimolar lithium-glymes solvate ionic liquids	Nana Arai	Niigata University
OP 3	16:35 - 16:50	Lithium ion solvation structure in 'water-in-salt' super-concentrated aqueous electrolyte solution	Erika Nozaki	Niigata University

Keynote Lecture 3 17:05 to 17:45 Chair

KL 5	17:05 - 17:25	Inkjet printing molecular assay	Prof. Joon Myong Song	College of Pharmacy, Seoul National University, Korea
KL 6	17:25 - 17:45	Online sample preparation method coupling to high-performance liquid chromatography for trace analysis of complicated sample	Prof. Gongke Li	School of Chemistry, Sun Yat-sen University



Lecture Hall Building 1F 102Keynote Lecture 2 15:25 to 16:05 Chair

	Period	Lecture Title	Speaker	Affiliation
KL 3	15:25 - 15:45	Quantitative Determination of Semi-Volatile Organic Compounds by Solid-Phase Extraction-Type Collection Device	Prof. Ikuo Ueta	University of Yamanashi
KL 4	15:45 - 16:05	Tailored Monolithic Stationary Phases for Capillary Ion Chromatography	Dr. Lee Wah Lim	Gifu University

Oral Presentation 2 16:05 to 16:50

OP 4	16:05 - 16:20	Calibration free detection system for HPLC	Prof. Shin-Ichi Ohira	Kumamoto University
OP 5	16:20 - 16:35	Recent Developed Technologies for Polymer Analysis	Dr. Takahisa Ishimura	Frontier Laboratories
OP 6	16:35 - 16:50	Development of an online dilution large volume injection technique for UHPLC-MS/MS with two applications to the analysis of trace analytes in complex matrix	Gisheng Zhong	Shimadzu (China) Co.,Ltd.

Keynote Lecture 4 17:05 to 17:45 Chair

KL 7	17:05 - 17:25	Analysis of weak acid by combination of an electro-dialytic salt removal and ion-exclusion chromatography with corona charged aerosol detection	Prof. Masanobu Mori	Faculty of Science and Technology, Kochi University
KL 8	17:25 - 17:45	Augmented Fluorescence-free 3D Super-resolution Microscopy Using Enhanced Dark-field Illumination Based on Wavelength-modulation and a Least-cubic Algorithm	Prof. Seong Ho Kang	Department of Applied Chemistry, Kyung Hee University

2017 Asia/CJK symposium Program September 10

Lecture Hall Building 1F 101

Keynote Lecture 5 09:00 to 09:40 Chair

	Period	Lecture Title	Speaker	Affiliation
KL 9	09:00 – 09:20	Capillary Electrochromatographic Column Technology for Pharmaceutical Analysis	Prof. Zilin Chen	School of Pharmaceutical Sciences, Wuhan University
KL 10	09:20 – 09:40	Microfluidics-enabled Cancer Diagnosis and Therapy	Prof. Jiashu Sun	National Center for Nanoscience and Technology

Oral Presentation 3 09:40 to 10:25

OP 7	09:40 – 09:55	On-site analysis of lead in aqueous matrix using the liquid electrode plasma-optical emission spectrometry combined with solid phase extraction	Suman Barua	1. Kanazawa University 2. University of Chittagong
OP 8	09:55 – 10:10	Chemiluminescence property for fluorescent carbon nanoparticles and application for arsenic determination	Miss Xiangnan Dou	Department of Chemistry, Tsinghua University
OP 9	10:10 – 10:25	Arsenic Speciation and Biotransformation by Marine Macroalgae in Seawater	Md. Abdullah Al Mamun	Hajee Mohammad Danesh Science and Technology University

Keynote Lecture 7 10:40 to 11:20 Chair

KL 13	10:40 – 11:00	Developed on-line pre-treatment system with SFE and LC/MS for food analysis	Dr. Yuki Hashi	Shimadzu (China) Co., Ltd.
KL 14	11:00 – 11:20	Furan in Dog food	Dr. Kazutoshi Sugita	Azabu university

Oral Presentation 5 11:20 to 12:05

OP 13	11:20 – 11:35	Size Dictated Microfluidic Device for Synergistic Enrichment of Circulating Tumor Cells	Prof. Zhi Zhu	Department of Chemistry, Xiamen University
OP 14	11:35 – 11:50	Aspects of Recent Developments on Smart Quantitative Analysis of Complex Chemical Systems Using High-order Analytical Instruments Coupled with High-order Tensorial Calibration Methods	Prof. Hailong Wu	Department of Chemistry, Hunan University
OP 15	11:50 – 12:05	Ion chromatography on anions using ODS columns	Prof. Kazuaki Ito	Kindai University

## Lecture Hall Building 1F 102

Keynote Lecture 6 09:00 to 09:40 Chair

	Period	Lecture Title	Speaker	Affiliation
KL 11	09:00 - 09:20	Dynamic imaging of MYC and CDKN1A mRNA as an indicator of cell G1-phase arrest	Prof. Jin-Ming Lin	Department of Chemistry, Tsinghua University
KL 12	09:20 - 09:40	SPME TECHNIQUES FOR IN VIVO SAMPLING AND ANALYSIS	Prof. Gangfeng Ouyang	School of Chemical and Chemical Engineering Sun Yat-sen University

Oral Presentation 4 09:40 to 10:25

OP 10	09:40 - 09:55	Evaluation of ginsenoside bioconversion of lactic acid bacteria isolated from kimchi	Dr. Boyeon Park	World Institute of Kimchi
OP 11	09:55 - 10:10	Design and Preparation of Novel Integrated Electrode	Prof. Li Wang	Department of Chemistry, Jiangxi Normal University
OP 12	10:10 - 10:25	Ionic Liquid Mediated Organophilic Carbon Dots for Drug Delivery and Bioimaging	Prof. Yang Shu	Institute of Biotechnology, College of Life and Health Sciences, Northeastern University

Keynote Lecture 8 10:40 to 11:20 Chair

KL 15	10:40 - 11:00	Analysis of atmospheric carbonyls in gaseous and particulate phases by using parallel plate wet denuder and particle collector: On site analysis in Kumamoto and on the top of Mt. Fuji	Prof. Kei Toda	Kumamoto University
KL 16	11:00 - 11:20	Droplets by Surface Wettability Guided Assembly and Applications	Prof. Bi-Feng Liu	College of Life Science and Technology, Huazhong University of Science and Technology

Oral Presentation 6 11:20 to 12:05

OP 16	11:20 - 11:35	Determination of multiple chelate complexes using amide column by ultra performance liquid chromatography quadrupole with time of flight mass spectrometry	Sohag Miah	Kanazawa University
OP 17	11:35 - 11:50	Controlled synthesis and surface engineering of fluorescent carbon nanodots for biomedical applications	Prof. Changqing Yi	Sun Yat-sen University
OP 18	11:50 - 12:05	Graphene quantum dots-gold nanoparticles as core-shell nanosensor for highly selective detection of cysteine	Prof. Xuwei Chen	Research Center for Analytical Sciences, Department of Chemistry, Northeastern University

2017 Asia/CJK symposium Program September 10

Lecture Hall Building 1F 101

Keynote Lecture 9 14:00 to 15:00 Chair

	Period	Lecture Title	Speaker	Affiliation
KL 17	14:00 - 14:20	Cells-self-helped in situ Fluorescence Amplification for Ultrasensitive Bioimaging	Prof. Ronghua Yang	School of Chemistry and Biological Engineering, Changsha University of Science and Technology
KL 18	14:20 - 14:40	Hydroxyl radical generation with a high power ultraviolet light emitting diode and application for determination of hydroxyl radical reaction rate constants	Prof. Kazuhiko Takeda	Graduate School of Biosphere Science, Hiroshima University
KL 19	14:40 - 15:00	Fabrication of BSA@AuNCs Based Nanostructures for Multimodal Cell Imaging and Target Drug Delivery	Prof. Caifeng Ding	College of chemical engineering; Qingdao University of Science & Technology

Oral Presentation 7 15:00 to 16:00

OP 19	15:00 - 15:15	Nonthermal Microplasma for the Analysis of Trace Metals by Optical Emission Spectrometry	Prof. Yongliang Yu	Research Center for Analytical Sciences, Department of Chemistry, Northeastern University
OP 20	15:15 - 15:30	Water Quality Assessment of Major Rivers in the Central Part of East Coast in Peninsular Malaysia	Daisuke Kozaki	Department of Chemistry and Biotechnology, Faculty of Science and Technology, Kochi University
OP 21	15:30 - 15:45	Specific Enrichment of Glycoproteins with Polymer Monolith Functionalized with $\beta$ -cyclodextrin Derivatives	Prof. Qiong Jia	Jilin University
OP 22	15:45 - 16:00	Investigation of extraction properties of Fe(II) and Fe(III) from HF/HCl solution using extraction chromatographic resin and influence of Fe on extraction behavior of Mo	Dr. Asako Shimada	Japan Atomic Energy Agency

Keynote Lecture 11 16:20 to 17:20 Chair

KL 23	16:20 - 16:40	Metal-Tagging Strategy and ICP-MS for Quantifying Protein Biomarkers and Counting Their host Cells	Prof. Qiuquan Wang	Department of Chemistry, College of Chemistry and Chemical Engineering Xiamen University
KL 24	16:40 - 17:00	Reproducible Capillary Electrophoresis	Prof. Yi Chen	Lab of Analytical Chemistry for Life Science Institute of Chemistry, Chinese Academy of Sciences
KL 25	17:00 - 17:20	Flow titration by feedback-based flow ratiometry with air segmentation	Prof. Hideji Tanaka	Institute of Biomedical Sciences, Tokushima University

FS:Future Session, PL:Plenary Lecture, KL:Keynote Lecture, OP:Oral Presentation



Lecture Hall Building 1F 102Keynote Lecture 10 14:00 to 15:00 Chair

	Period	Lecture Title	Speaker	Affiliation
KL 20	14:00 - 14:20	Flow/Sequential Injection-Solid Phase Extraction for Wastewater Analysis and Urinalysis	Prof. Norio Teshima	Aichi Institute of Technology
KL 21	14:20 - 14:40	Sensitive Bioimaging of Cellular Functional Biomolecules	Prof. Huang xian Ju	State Key Laboratory of Analytical Chemistry for Life Science, Department of Chemistry, Nanjing University
KL 22	14:40 - 15:00	Simultaneous quantification of metabolomes in multiple pathways with UHPLC-MS/MS	Prof. Tang Huiru	School of Life Science, Fudan University

Oral Presentation 8 15:00 to 16:00

OP 23	15:00 - 15:15	Speciation of arsenic compounds in salted shrimp and anchovy by LC-ICP-MS	Dr. In Min Hwang	World Institute of Kimchi
OP 24	15:15 - 15:30	Detection of trace tetracycline in fish via synchronous fluorescence quenching with carbon quantum dots coated with molecularly imprinted silica	Prof. Zhi-Yong Huang	College of Food and Bioengineering, Jimei University
OP 25	15:30 - 15:45	LC-MS Determination of Residual Carbonyl Compounds in Dietary Supplement with Fluorescein 5-thiosemicarbazide Derivatization	Prof. Yong-Moon Lee	Chungbuk National University
OP 26	15:45 - 16:00	Localized surface plasmonic resonance based probes for colorimetric detection of environmental pollutants	Prof. Jinbin Zeng	China University of Petroleum

Keynote Lecture 12 16:20 to 17:00 Chair

KL 26	16:20 - 16:40	Bioluminescent array sensor for protein recognition and instantaneous readout of antibiotic mechanisms	Prof. Weili Wei	School of Pharmaceutical Science, Chongqing University
KL 27	16:40 - 17:00	Key technology on D,L-amino acid metabolomics —highly sensitive and selective analytical method using original pre-column derivatization reagents with LC-MS/MS—	Sachise Karakawa	Institute for Innovation, Ajinomoto Co., INC.

Oral Presentation 9 17:00 to 17:30

OP 27	17:00 - 17:15	A cell membrane affinity sample pretreatment technique for recognition and preconcentration of active components from traditional Chinese medicine	Prof. Sicen Wang	Xi'an Jiaotong University
OP 28	17:15 - 17:30	Metal-organic nanotubes-based pretreatment techniques of environmental samples	Ru-Song Zhao	Shandong Academy of Sciences

KL:Keynote Lecture, OP:Oral Presentation



Poster Session , The presentation's core time is from 12: 05 to 14: 00 on the 10th. (Posters will be able to posted in the morning of 9th.)

	Presentation Title	Presenter	Affiliation
P1	Simultaneous identification and quantification of phenolic acids and flavonoids in <i>Orostachys japonicus</i> by HPLC-UV-ESI-MS/MS	Thi Phuong Duyen Vu	College of Pharmacy, Chungnam National University
P2	Identification for the main constituents of herb mixture by Liquid chromatography-tandem mass spectrometry	Linxi Cai	
P3	Zn Sorption Capacity of Zinc Ion Imprinted Polymer (ZiIP) from Aqueous Media	M.S. Soyoung Ahn M.S. Yejin Lee	Seoul Women's University, Department of Chemistry, Analytical chemistry lab
P4	Amplification-Free Super-Sensitive Plasmonic Viral DNA Chip by Transmission Grating-based Total Internal Reflection Scattering Nanoscopy	Dr. Seungah Lee①	
P5	Advanced Fluorescent-free Ultra-sensitive Biosensor Based on Enhanced Dark Field	Dr. Seungah Lee②	Department of Applied Chemistry, Kyung Hee University
P6	Determination of Fenpyroximate from Honey by LC-MS/MS	M.S. JinMun Kim	
P7	Analysis of Famphur in Honey by Solid-Phase Extraction and GC-MS	M.S. Seung-Ho Lee (Prof. Seung-Woon, Myung)	Department of chemistry, Kyonggi University
P8	Validation of Analytical Method for Determination of Five Alcohols in Kimchi	Dr.Hye-Young Seo	World Institute of Kimchi
P9	The research for improving of analytical methods of L-carnitine food additives	Dr. Jang-Hyuk Ahn	Department of Research & Development, Fore Front Test, Co.,Ltd.
P10	In situ extraction and derivatization method for rapid analysis of short-chain fatty acids in rat fecal sample by gas chromatography tandem mass spectrometry	Na Hyun Park	
P11	Rapid screening and confirmation of 154 multi-class illegal adulterants in dietary supplements based on extracted common ion chromatogram and neutral loss scan by UHPLC-Q/TOF-MS	Jisu Hur ①	Kyung Hee university
P12	Application of extracted common ion chromatogram and neutral loss scan for rapid screening of 35 sulfonamide in supplements by UHPLC-Q/TOF-MS	Jisu Hur ②	
P13	Formaldehyde analysis in foods by LC-MS/MS with dansyl derivatization agents	Maftuna Shamshidinova	Chungbuk National University
P14	Chemical Composition Variation of Asian Dusts at Jeju Island Related to Their Inflow Pathways during 2010-2015	Dr. Jung-Min SONG (Prof. Chang-Hee KANG)	Jeju National University
P15	Extraction of zinc-binding metallothionein-like proteins induced in <i>C. vulgaris</i>	Prof. Zhi-Yong Huang	College of Food and Biological Engineering, Jimei University
P16	Determination of a new polypeptide drug analogous to brain natriuretic peptide in rat plasma by centrifugal solid phase extraction coupled with liquid chromatography-tandem mass spectrometry	Xue Tang	
P17	Determination of 18 polycyclic aromatic hydrocarbons(PAHS)in plastic track of sports field by gas chromatography-tandem mass spectrometry	Yong Wang	
P18	Determination of magnolin in Flos Magnoliae by online SFE-SFC system	Xin Zheng	Shimadzu (China) Co.,Ltd.
P19	Simultaneous enantioselective separation and determination of acephate and its main chiral metabolite methamidophos in cabbage by supercritical fluid chromatography coupled with ESI-MS/MS	Feng Ji	

	Presentation Title	Presenter	Affiliation
P20	MoS <sub>2</sub> -LA-PEI nanocomposite carrier for real-time imaging of ATP metabolism in glioma stem cells co-cultured with endothelial cells on a microfluidic system	Miss Nan Li	Department of Chemistry, Tsinghua University
P21	Development of the on-site evaluation method of contamination on the metal surface	Miss Ning Xu	Xiamen Huaxia University
P22	Ratiometric pH Nanosensor for Intracellular Imaging	Miss Qiuqiong Yao	School of Pharmaceutical Science, Chongqing University
P23	A Chiral Sensor Array for Peptidoglycan Biosynthesis Monitoring Based on Host Molecule-Modified MoS <sub>2</sub> Nanosheets	Miss Feng Zhang	Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University
P24	CsPbBr <sub>3</sub> Perovskite Quantum Dots as a Novel Wavelength Shift Fluorescent Iodide Ruler for "Traffic Light" Colorimetric Sensing	Mr. Feiming Li	Graduate School of Pharmaceutical Sciences, Tokushima University
P25	Analysis of nerolidol in tea using three dimensional super-amphiphilic graphene material as solid phase microextraction coating	Dr. Yiru Wang	Fukuoka Institute of Technology & Nanjing University of Science and Technology
P26	High throughput titration by feedback-based flow ratiometry and its application to analysis of vinegar samples	Mr. Naoya Kakiuchi	Shibaura Institute of Technology
P27	Monitoring of Dissolved Oxygen and Materials Movement at a Vicinity of an Aquatic Plant Surface by Fluorescence Quenching and Deflection method	Luo-Wei Huang	Fukushima University
P28	Determination of sulfate ion using optical sensor based on tetrabromophenolphthalein ethyl ester membrane	Prof. Takashi Masadome <sup>①</sup> (Hidekazu Ishikawa)	Graduate School of Science, The University of Tokyo
P29	Flow Injection Analysis of Cationic Surfactants Using a Microfluidic Polymer Chip with an Embedded Optode Membrane as a Detector	Prof. Takashi Masadome <sup>②</sup> (Mekonnen Abiyot Ashagre)	Department of Chemistry and Chemical Biology, Gunma university
P30	Formation and Stability of the Complexes of Strontium and Geochemically Related Elements with Biodegradable Chelators	Prof. Ismail M. M. Rahman	National Institute of Advanced Industrial Science and Technology (AIST)
P31	Discrimination of body fluid stains by ATR FT-IR and spectral multivariate processing for forensic purpose	Ayari Takamura	Graduate School of Marine Science and Technology, Tokyo University of Marine Science and Technology
P32	A linear dichroism measurement system with a slab optical waveguide for the measurements of orientation of dye molecules in reverse micelle and lipid bilayer membrane.	Takuya Nishiwaki	Tokyo University of Marine Science and Technology
P33	Low temperature EPR measurements for purity analyses of TEMPO and 4-hydroxy TEMPO benzoate by "effective magnetic moment method"	Dr. Nobuhiro Matsumoto <sup>①</sup> (Takuya Shimosaka)	Graduate School of Life Sciences, Toyo University
P34	Development of a Certified Reference Material of Nitrous Oxide in Nitrogen for Emission Gas Measurement	Dr. Nobuhiro Matsumoto <sup>②</sup> (Kaeko Takada), (Takuya Shimosaka)	Graduate School of Natural Science and Technology, Kanazawa University
P35	Silica depletion by diatom in Tokyo Bay and Wakasa Bay	Prof. Miho Tanaka	Laboratory of Veterinary Public Health I., School of Veterinary Medicine, Azabu University
P36	Metal concentrations in digestive gland of <i>Loliginidae (Photololigo edulis)</i> from East China Sea	Yoshitaka Yamaguchi	
P37	Removal of Cr(VI) from aqueous solution using steelmaking slag	Midori Takanashi	
P38	A novel method for monitoring cell reaction	Mr. Shohei Hoshino	
P39	Potential Risk Assessment of Heavy Metals in Soils and Waters in the Vicinity of Ship Breaking and Recycling Industries, Bangladesh	Iftakharul Alam	
P40	Measurement of halitosis components of dogs	Miss. Shiho Yanagisawa	

	Presentation Title	Presenter	Affiliation
P41	Development of determination method for Fe <sup>2+</sup> and Fe <sup>3+</sup> by ESI-MS	Shunya Okabe	Graduate School of Marine Science and Technology, Tokyo University of Marine Science and Technology
P42	A method for trace elemental analysis of serum using a portable total reflection X-ray fluorescence spectrometer	Yugo Sugawara, (Shinsuke Kunimura)	Faculty of Engineering, Tokyo University of Science
P43	Trace analysis of aluminum in tap water and tea using a portable total reflection X-ray fluorescence spectrometer	Shuichiro Terada (Shinsuke Kunimura)	
P44	Skin gas of human being comes from body states and conditions	Dr. Takao Tsuda	Pico-device Co,
P45	Quantitative Analysis of Red Phosphorus in Polybutylene Terephthalate using Evolved Gas Analysis-MS and Pyrolysis-GC/MS	Dr. Takahisa Ishimura	Frontier Laboratories Ltd.
P46	Study on Discoloration of Polyvinylchloride Sheet by Evolved Gas Analysis- and Pyrolysis-GC/MS	Ai Shiono	
P47	Identification of the antimicrobial ingredients emitted from strain TM-I-3 and study of the antimicrobial activity of TM-I-3 under spore state	Ms.Chihiro Usui	Faculty of Pharmaceutical Sciences, Nagasaki International University
P48	Study of malodorous compounds from secondhand smoke in tobacco smoke and thirdhand smoke	Prof. Hiroshi Sato	