Program

Tuesday, September 13

Room A (Orbit Hall)

Plenary Lectures 1

(10:00～10:50) Chair: Ryuichi Arakawa (Kansai Univ.)

1A-PL-1000　Fundamental Insights and Future Prospects on Development of Mass Spectrometers (Osaka Univ.) °Michisato Toyoda

Oral Presentations

(11:00～12:00) Chair: Yasushi Ishihama (Kyoto Univ.)

1A-O1-1100　☆Structural analysis of TFIIE by Ion Mobility-Mass Spectrometry and Small-Angle X-ray Scattering (Yokohama City Univ.) °Kazumi Saikusa, Takasi Oda, Masahiko Okuda, Mitsunori Ikeguchi, Mamoru Sato, Yoshifumi Nishimura, Satoko Akashi

1A-O1-1120　☆Analysis of Dimer Formation of Carnosine Dipeptidase 2 (CNDP2) by ESI-TOF MS ([1]Inst. Protein Res., Osaka Univ., [2]JEOL Ltd.) °Nobuaki Okumura[1], Jun Tamura[2], Toshifumi Takao[1]

1A-O1-1140　High-throughput Protein Identification with ESI-chip System (CERI) °Hidenori Yamanaka, Naoaki Yakata, Yosuke Maeda, Masahiro Takeyoshi

Luncheon Seminar (Presented by K.K. AB SCIEX)

(12:10～13:10)

1A-L-1210　Ultra Selectivity Quantification with AB SCIEX SelexION[TM] (AB SCIEX) °Shigeru Yamada

Poster Short Presentations

(13:15～13:50) Chair: Munehiro Katagi (Osaka Pref. Police Dep.)

1A-SP-1315 (1P-01)　☆Rapid Analytics of Lipid by Visualization of Mass Spectrum ([1]Univ. of Electro-Communications, [2]JEOL Ltd.) °Shinichi Mukosaka[1,2], Kanae Teramoto[2], Hideki Koike[1]

1A-SP-1320 (1P-02)　☆Development of Simultaneous LC-MS/MS Analysis for Angiotensin Peptides in Rat Plasma (Exploratory Research Laboratories, Research Center, Ajinomoto Pharmaceuticals Co., Ltd.) °Taro Nakamura, Shizuka Aritomi, Yoshiro Kitahara, Itsuya Tanabe

1A-SP-1325 (1P-03)　☆Structural dynamics analysis of GAPDH for functional regulation by hydrogen/deuterium exchange coupled with mass spectrometry ([1]JST ERATO, [2]Keio Univ.) °Tatsuya Yamamoto[1,2], Yasuaki Kabe[1,2], Makoto Suematsu[1,2]

1A-SP-1330 (1P-04)　☆Affinity-Trap Polyacrylamide Gel Electrophoresis Using Phos-tag for Phosphoprotein Profiling ([1]IPR, [2]Hiroshima Univ.) °Chihiro Awada[1], Eiji Kinoshita[2], Tohru Koike[2], Toshifumi Takao[1]

1A-SP-1335 (1P-05)　☆Rapid cancer diagnosis using electrospray ionization mass spectrometry ([1]Yamanashi Univ., [2]Yamanashi Univ., [3]Yamanashi Univ.) °Kentaro Yoshimura[1], Lee Chuin Chen[2], Mridul Kanti Mandal[3], Kenzo Hiraoka[3], Sen Takeda[1]

1A-SP-1340 (1P-06)　☆A comprehensive analysis of DNA adducts in lungs of mice exposed to nanomaterials using nanoLC-QT of MS ([1]Natl. Cancer Ctr. Res. Inst., [2]Grad. Sch. of Nutr. & Environ. Sci. Univ. of Shizuoka) °Kousuke Ishino[1], Tatsuya Kato[1,2], Yukari Totsuka[1], Hitoshi Nakagama[1]

1A-SP-1345 (1P-07)　☆Development of a polar lipid profiling method by supercritical fluid chromatography/mass spectrometry (Osaka Univ.) °Jae Lee, Takashi Yamamoto, Takato Uchikata, Atsuki Matsubara, Eiichiro Fukusaki, Takeshi Bamba

Oral Presentations

(16:00～17:20) Chair: Takemichi Nakamura (RIKEN)

1A-O2-1600　Evidence of Charge-localization Isomers—(−)ESI-MS/MS of a Disaccharide Disulfate ([1]Univ. of Electro-Comm., [2]RIKEN, [3]Thermo) °Yoko Ohashi[1,2], Masayuki Kubota[3], Hiroshi Hatase[1], Takashi Hirano[1], Shojiro Maki[1], Haruki Niwa[1]

1A-O2-1620　Effects of pyrene derivatization on glycopeptides-matrix interaction during crystallization (Noguchi Inst.) °Junko Amano, Hisako Okumura, Takashi Nishikaze

1A-O2-1640　☆Therapeutic oligonucleotides sequencing by mass spectrometry ([1]JCL, [2]Ribomic, [3]Tokyo Univ.) °Shohei Shioyama[1], Yukiko Nishida[1], Junji Yamaura[2], Emire Inomata[2], Tomonori Takami[1], Rieko Goto[1], Shin Miyakawa[2], Yoshikazu Nakamura[3]

Sep. 13, Tues.

1A-O2-1700 ☆Development of coupled column liquid chromatography-tandem mass spectrometry method for the simultaneous determination of prostaglandins E_1, E_2, E_3 and the metabolites in human plasma (Osaka Lab.) °Fumiyuki Nakagawa, Akihiro Sunagawa

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

Room B (Seiun 1)

Oral Presentations

(11:00～12:00) Chair: Takae Takeuchi (Nara Women's Univ.)

1B-O1-1100 ☆ESI-like characteristics of atmospheric pressure MALDI ([1]Kansai Univ., [2]AIST) °Shinya Takaoka[1], Hideya Kawasaki[1], Masato Kiuchi[2], Ryuichi Arakawa[1]

1B-O1-1120 SALDI-Mass Spectrometry of Oligopeptides using anisotropic metal nanoparticles ([1]Kyushu Univ., [2]I2CNER, WPI, [3]CREST) °Yasuro Niidome[1, 2], Masanori Fujii[1], Yuki Nakamura[1], Naotoshi Nakashima[1, 2, 3]

1B-O1-1140 ☆A New Hypothesis of Desorption in UV-MALDI: Threshold Laser Power of Analyte Ions with NorHarmane Matrix Was Shifted Depended on the History of Laser Ablation (Ehime Univ.) °Yasuto Sato

Luncheon Seminar (Presented by AMR, Inc.)

(12:10～13:10)

1B-L-1210 1) DBS Method Development to Completely Automated LC/MS/MS Analysis 2) Direct Analysis Techniques for Semisolids and Solids Using DART-MS ([1]AMR, [2]Toray Research, [3]Shiseido) °Teruhisa Shiota[1], Souki Kanda[2], Haruo Shimada[3]

Poster Short Presentations

(13:15～13:50) Chair: Motohiro Shizuma (OMTRI)

1B-SP-1315 (1P-08) ☆Nanotrap and Analysis by Nano-particle Assisted Laser Desorption/Ionization (Nano-PALDI) MS ([1]JAIST, [2]Osaka Univ., [3]Ishikawa Pref. Univ., [4]Yokohama National Univ.) °Shu Taira[1], Shuich Shimma[2], Yasuko Konishi[3], Yuko Ichiyanagi[4]

1B-SP-1320 (1P-09) ☆Improving the Sensitivity in MALDI-MS Analyses by Using Deposition of Small Droplet (Shimadzu Corp.) °Yusaku Hioki, Yuko Fukuyama, Chikako Hamana, Shinichi Iwamoto, Koichi Tanaka

1B-SP-1325 (1P-10) ☆Electron capture dissociation (ECD) and collision induced dissociation (CID) in radio frequency quadrupole ion trap for peptide sequencing (Hitachi Ltd.) °Hiroyuki Satake, Naomi Manri, Akihito Kaneko, Hideki Hasegawa, Yuichiro Hashimoto, Takeshi Sakamoto

Sep. 13, Tues.

1B-SP-1330
(1P-11)
☆Development of Dual Tips Live Single-cell MS for Simultaneous Analysis of Two Region in a Single Cell ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]QBiC, RIKEN) °Yuki Yamamoto[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

1B-SP-1335
(1P-12)
☆*N*-Glycan profiling of HER2 by AQ-labeling method with 3-AQ/CHCA liquid matrix ([1]Shimadzu Corp., [2]Shimadzu Corp., [3]Kyoto Univ., [4]Kyoto Univ., [5]Kyoto Univ., [6]Kyoto Univ., [7]Shimadzu Corp.) °Kaoru Kaneshiro[1], Makoto Watanabe[2], Kazuya Terasawa[3], Hiromasa Uchimura[4], Kazuharu Shimizu[5], Gozo Tsujimoto[6], Koichi Tanaka[7]

1B-SP-1340
(1P-13)
☆Direct Analysis of Narcotics by Probe Electrospray Ionization Mass Spectrometry ([1]CERC, [2]Univ. Yamanashi) °Md. Obaidur Rahman[1], Mridul Kanti Mandal[1], Lee Chuin Chen[2], Kenzo Hiraoka[1]

1B-SP-1345
(1P-14)
☆Drug monitoring by Pico-drop sweat direct mass spectrometry ([1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]ITO EN, Ltd., [3]QBiC, RIKEN) °Harue Hiramoto[1], Kanako Honda[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Iwao Sakane[2], Sachiko Date[3], Tsutomu Masujima[1, 3]

Yamashita, Ryouta Arakawa, Ayako Sudo, Keishi Machida, Kanako Yokoyama

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

Oral Presentations
(16 : 00～17 : 20) Chair: Akimasa Fujihara (Osaka Pref. Univ.)

1B-O2-1600
☆Challenge to determining absolute configurations with the aid of chiral auxiliary group ([1]Tokyo Inst. technol., [2]RIKEN ASI, [3]JST ERATO) °Yuki Shioiri[1, 2], Yukishige Ito[2, 3], Osamu Kanie[1, 2, 3]

1B-O2-1620
A drift tube mass spectrometer for low-temperature ion/molecule reactions (Osaka Pref. Univ.) °Kenichi Iwamoto, Haruto Ikuta

1B-O2-1640
Photodissociation Spectroscopy of Hydrated Metal Ions in the Temperature-Variable Ion Trap (Kobe Univ.) °Haruki Ishikawa, Takumi Nakano, Toru Eguchi, Takuya Shibukawa, Kiyokazu Fuke

1B-O2-1700
Temperature Dependence of Proton Transfer for Multiply-Charged Protein and Peptide Ions (Yokohama City Univ.) °Shinji Nonose, Takuya Okamura, Kazuki

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Room C（Seiun 2）

Oral Presentations
（11：00～12：00）Chair: Morio Ishihara（Osaka Univ.）

1C-O1-1100　Preliminary examination of noble gases in the Itokawa asteroidal samples returned by the Hayabusa spacecraft（[1]Univ. of Tokyo, [2]Kyushu Univ., [3]Tohoku Univ., [4]JAEA, [5]Tokyo Metropolitan Univ., [6]ANU, [7]Ibaraki Univ., [8]Osaka Univ., [9]Hokkaido Univ., [10]NASA, [11]ISAS/JAXA）°Keisuke Nagao[1], Ryuji Okazaki[2], Tomoki Nakamura[3], Yayoi N. Miura[1], Takahito Osawa[4], Ken-ichi Bajo[1, 9], Shintaro Matsuda[1], Mitsuru Ebihara[5], Trevor R. Ireland[6], Fumio Kitajima[2], Hiroshi Naraoka[2], Takaaki Noguchi[7], Akira Tsuchiyama[8], Masayuki Uesugi[11], Hisayoshi Yurimoto[9], Michael E. Zolensky[10], Kei Shirai[11], Masanao Abe[11], Toru Yada[11], Yukihiro Ishibashi[11], Akio Fujimura[11], Toshifumi Mukai[11], Munetaka Ueno[11], Tatsuaki Okada[11], Makoto Yoshikawa[11], Junichiro Kawaguchi[11]

1C-O1-1120　☆Variations in stable isotope ratios and anion concentrations of in-flight water（Tokyo Univ. of Agr. & Tech.）°Hidemitsu Katsura

1C-O1-1140　☆The Effects of Cell Gas on ICPMS-IT-LCS（Ion Trap Laser Cooling Spectroscopy）（Univ. of Tokyo）°Yuta Yamamoto, Masanori Kitaoka, Takuma Yoshida, Kyunghun Jung, Shuichi Hasegawa

Luncheon Seminar（Presented by SHIMADZU CORPORATION）
（12：10～13：10）

1C-L-1210　Metabolomics as a novel diagnostic approach for disease（Kobe Univ.）°Masaru Yoshida, Shin Nishiumi, Yasuhiro Irino, Naoya Hatano

Poster Short Presentations
（13：15～13：50）Chair: Hiroaki Akutsu（Asahikawa Medical Univ.）

1C-SP-1315 (1P-15)　☆A Technical Development for Detecting High Mass Proteins in Microscope-mode Imaging Mass Spectrometry（[1]Hamamatsu Photonics K.K., [2]GPI）°Masahiro Hayashi[1], Yasuhide Naito[2]

1C-SP-1320 (1P-16)　☆Application of Imaging Mass Spectrometry in Drug Metabolism and Pharmacokinetic Research—Quantitative Analysis of Whole Body Drug Distribution in Mice—（Drug Metabolism and Pharmacokinetics, Drug Developmental Research Laboratories, Shionogi & Co., Ltd.）°Yukari Tanaka, Nozomi Takai, Kazuhiro Inazawa, Norihito Sato, Yuka Iwamoto, Hiroshi Hasegawa, Yoshito Okabayashi

1C-SP-1325 (1P-17)　☆Implementation of Probe Electrospray Ionization（PESI）under Super Atmospheric Pressure: HP-PESI-MS（Univ. Yamanashi）°Lee Chuin Chen, Mridul Kanti Mandal, Kenzo Hiraoka

1C-SP-1330 (1P-18)　☆Hybrid Ion Source of ESI and Dielectric Barrier Discharge and Its Application to Metabolomics（[1]CERC, [2]Univ. Yamanashi）°Md. Matiur Rahman[1], Md. Obaidur Rahman[1], Mridul Kanti Mandal[1], Md Ahsan Habib[1], Lee Chuin Chen[2], Kenzo Hiraoka[1]

1C-SP-1335 (1P-19)　☆LC-MS/MS Analysis of Organ Distribution of a Synthetic Estrogen Diethylstilbestrol Orally Administered to Adult Male Rat and Biosynthesis of Testosterone（[1]Meat Science Institute, [2]Rakuno Univ.）°Naoyuki Maeda[1, 2], Satoko Haeno[2], Kanako Okumura[2], Hanako Shin[2], Tomokazu Suzuki[1], Taku Miyasyo[2], Hiroshi Yokota[2]

1C-SP-1340 (1P-20)　☆Live Single-cell MS analysis of herbal compounds in cultured cells（[1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]QBiC, RIKEN）°Shushi Kiseki[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

1C-SP-1345 (1P-21)　☆HE-CID MS/MS analysis of spider venom using a MALDI-TOF-TOF（JEOL）°Masahiro Hashimoto, Yoshiyuki Itoh, Ayumi Kubo, Jun Tamura, Jyun Onodera

Oral Presentations
（16：00～17：20）Chair: Toshiki Sugai（Toho Univ.）

1C-O2-1600　☆Structural analysis of fluoropolymer by using Pyrolysis GC×GC/TOFMS（Asahi Glass Co., Ltd.）°Yoji Nakajima, Yuko Nakamura, Tsuguhide Isemura, Kiyoshi Yamamoto

1C-O2-1620　☆Semi-online LC-MALDI-MS of polyether copolymers using an ODS-modified monolithic silica capillary column（[1]Kansai Univ,

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[2]Kyoto Univ.) °Ken Fujii[1], Hideya Kawasaki[1], Kazuki Nakanishi[2], Ryuichi Arakawa[1]

1C-02-1640 ☆Analysis of metallofullerene by tandem time-of-flight mass spectrometer with spiral ion trajectory (JEOL) °Ayumi Kubo, Masahiro Hashimoto, Yoshiyuki Itoh, Jun Tamura, Hisashi Komaki, Keiichi Misawa, Jun Onodera

1C-02-1700 ☆Structures and dissociations of silver bromide cluster AgnBrm generated by electron transfer from alkali metal targets ([1]Osaka Pref. Univ., [2]Osaka Univ., [3]Ochanomizu Univ.) °Yusuke Matsui[1], Shigeo Hayakawa[1], Akimasa Fujihara[1], Michisato Toyoda[2], Hirotoshi Mori[3], Aya Matsuda[3], Nanako Sato[3], Natsumi Hirayama[3]

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

Poster Room (Gekko)

Core time (Odd numbers): 14:00～15:00
Core time (Even numbers): 15:00～16:00

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

1P-01 ☆Rapid Analytics of Lipid by Visualization of Mass Spectrum ([1]Univ. of Electro-Communications, [2]JEOL Ltd.) °Shinichi Mukosaka[1, 2], Kanae Teramoto[2], Hideki Koike[1]

1P-02 ☆Development of Simultaneous LC-MS/MS Analysis for Angiotensin Peptides in Rat Plasma (Exploratory Research Laboratories, Research Center, Ajinomoto Pharmaceuticals Co., Ltd.) °Taro Nakamura, Shizuka Aritomi, Yoshiro Kitahara, Itsuya Tanabe

1P-03 ☆Structural dynamics analysis of GAPDH for functional regulation by hydrogen/deuterium exchange coupled with mass spectrometry ([1]JST ERATO, [2]Keio Univ.) °Tatsuya Yamamoto[1, 2], Yasuaki Kabe[1, 2], Makoto Suematsu[1, 2]

1P-04 ☆Affinity-Trap Polyacrylamide Gel Electrophoresis Using Phos-tag for Phosphoprotein Profiling ([1]IPR, [2]Hiroshima Univ.) °Chihiro Awada[1], Eiji Kinoshita[2], Tohru Koike[2], Toshifumi Takao[1]

1P-05 ☆Rapid cancer diagnosis using electrospray ionization mass spectrometry ([1]Yamanashi Univ., [2]Yamanashi Univ., [3]Yamanashi Univ.) °Kentaro Yoshimura[1], Lee Chuin Chen[2], Mridul Kanti Mandal[3], Kenzo Hiraoka[3], Sen Takeda[1]

1P-06 ☆A comprehensive analysis of DNA adducts in lungs of mice exposed to nanomaterials using nanoLC-QT of MS ([1]Natl. Cancer Ctr. Res. Inst., [2]Grad. Sch. of Nutr. & Environ. Sci. Univ. of Shizuoka) °Kousuke Ishino[1], Tatsuya Kato[1, 2], Yukari Totsuka[1], Hitoshi Nakagama[1]

1P-07 ☆Development of a polar lipid profiling method by supercritical fluid chromatography/mass spectrometry (Osaka Univ.) °Jae Lee, Takashi Yamamoto, Takato Uchikata, Atsuki Matsubara, Eiichiro Fukusaki, Takeshi Bamba

1P-08 ☆Nanotrap and Analysis by Nano-particle Assisted Laser Desorption/Ionization (Nano-PALDI) MS ([1]JAIST, [2]Osaka Univ., [3]Ishikawa Pref. Univ., [4]Yokohama National Univ.) °Shu Taira[1], Shuich Shimma[2], Yasuko Konishi[3], Yuko Ichiyanagi[4]

1P-09 ☆Improving the Sensitivity in MALDI-MS Analy-

ses by Using Deposition of Small Droplet (Shimadzu Corp.) °Yusaku Hioki, Yuko Fukuyama, Chikako Hamana, Shinichi Iwamoto, Koichi Tanaka

1P-10 ☆Electron capture dissociation (ECD) and collision induced dissociation (CID) in radio frequency quadrupole ion trap for peptide sequencing (Hitachi Ltd.) °Hiroyuki Satake, Naomi Manri, Akihito Kaneko, Hideki Hasegawa, Yuichiro Hashimoto, Takeshi Sakamoto

1P-11 ☆Development of Dual Tips Live Single-cell MS for Simultaneous Analysis of Two Region in a Single Cell ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]QBiC, RIKEN) °Yuki Yamamoto[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

1P-12 ☆N-Glycan profiling of HER2 by AQ-labeling method with 3-AQ/CHCA liquid matrix ([1]Shimadzu Corp., [2]Shimadzu Corp., [3]Kyoto Univ., [4]Kyoto Univ., [5]Kyoto Univ., [6]Kyoto Univ., [7]Shimadzu Corp.) °Kaoru Kaneshiro[1], Makoto Watanabe[2], Kazuya Terasawa[3], Hiromasa Uchimura[4], Kazuharu Shimizu[5], Gozo Tsujimoto[6], Koichi Tanaka[7]

1P-13 ☆Direct Analysis of Narcotics by Probe Electrospray Ionization Mass Spectrometry ([1]CERC, [2]Univ. Yamanashi) °Md. Obaidur Rahman[1], Mridul Kanti Mandal[1], Lee Chuin Chen[2], Kenzo Hiraoka[1]

1P-14 ☆Drug monitoring by Pico-drop sweat direct mass spectrometry ([1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]ITO EN, Ltd., [3]QBiC, RIKEN) °Harue Hiramoto[1], Kanako Honda[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Iwao Sakane[2], Sachiko Date[3], Tsutomu Masujima[1, 3]

1P-15 ☆A Technical Development for Detecting High Mass Proteins in Microscope-mode Imaging Mass Spectrometry ([1]Hamamatsu Photonics K.K., [2]GPI) °Masahiro Hayashi[1], Yasuhide Naito[2]

1P-16 ☆Application of Imaging Mass Spectrometry in Drug Metabolism and Pharmacokinetic Research—Quantitative Analysis of Whole Body Drug Distribution in Mice— (Drug Metabolism and Pharmacokinetics, Drug Developmental Research Laboratories, Shionogi & Co., Ltd.) °Yukari Tanaka, Nozomi Takai, Kazuhiro Inazawa, Norihito Sato, Yuka Iwamoto, Hiroshi Hasegawa, Yoshito Okabayashi

1P-17 ☆Implementation of Probe Electrospray Ionization (PESI) under Super Atmospheric Pressure : HP-PESI-MS (Univ. Yamanashi) °Lee Chuin

Chen, Mridul Kanti Mandal, Kenzo Hiraoka

1P-18 ☆Hybrid Ion Source of ESI and Dielectric Barrier Discharge and its Application to Metabolomics ([1]CERC, [2]Univ. Yamanashi) °Md. Matiur Rahman[1], Md. Obaidur Rahman[1], Mridul Kanti Mandal[1], Md Ahsan Habib[1], Lee Chuin Chen[2], Kenzo Hiraoka[1]

1P-19 ☆LC-MS/MS Analysis of Organ Distribution of a Synthetic Estrogen Diethylstilbestrol Orally Administered to Adult Male Rat and Biosynthesis of Testosterone ([1]Meat Science Institute, [2]Rakuno Univ.) °Naoyuki Maeda[1, 2], Satoko Haeno[2], Kanako Okumura[2], Hanako Shin[2], Tomokazu Suzuki[1], Taku Miyasyo[2], Hiroshi Yokota[2]

1P-20 ☆Live Single-cell MS analysis of herbal compounds in cultured cells ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]QBiC, RIKEN) °Shushi Kiseki[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

1P-21 ☆HE-CID MS/MS analysis of spider venom using a MALDI-TOF-TOF (JEOL) °Masahiro Hashimoto, Yoshiyuki Itoh, Ayumi Kubo, Jun Tamura, Jyun Onodera

1P-22 MassBank Hosting Service to Share Mass Spectral Data on Wide Area Networks ([1]NAIST, [2]NAIST, [3]NAIST) °Tasuku Ikeda[1], Yoshito Nihei[2], Takaaki Nishioka[3]

1P-23 Analysis of Peak-Chemical Substructure Relationships in ESI-MS^2 Data of Metabolites (NAIST) °Yuya Ojima, Yoshito Nihei, Takaaki Nishioka

1P-24 System Enhancement in Mass Spectral Database MassBank (NAIST) °Yoshito Nihei, Tasuku Ikeda, Yuya Ojima, Takaaki Nishioka

1P-25 Analysis of Antibodies Using a Novel High Resolution Quadrupole Time-of-Flight Mass Spectrometry Platform and Chromatographic Separations ([1]Nihon Waters K.K., [2]Waters Corp., [3]Waters MS) °Taiji Kawase[1], Asish Chakraborty[2], St John Skilton[2], Martin Palmer[3], Keith Richardson[3], Jason L. Wildgoose[3], Kevin Giles[3], Martin Green[3], Weibin Chen[2], Kenji Hirose[1]

1P-26 Mass shift of 1 u of c-type and z-type ions in the electron transfer dissociation of phosphopeptides ([1]Osaka Pref. Univ., [2]Osaka MCHRI, [3]AIST) °Shigeo Hayakawa[1], Ayako Kawaguchi[1], Skinya Matsumoto[1], Michiko Tajiri[2], Yoshinao Wada[2], Yasushi Shigeri[3]

1P-27 Automatic MS/MS characterization of N-linked glycopeptides ([1]BDAL K.K., [2]BDAL GmbH) °Noriyuki Iwasaki[1], Haruo Hosoda[1], Jouji Seta[1], Takashi Nirasawa[1], Andrea Kiehne[2], Anja

Resemann[2], Ulrike Schweiger-Hufnagel[2], Arndt Asperger[2], Detlev Suckau[2]

1P-28 An Unbiased Approach to Increasing Proteome Coverage Using Ion Mobility with MSE ([1]Nihon Waters K.K., [2]Waters) °Futoshi Sato[1], Martha Stapels[2], Keith Fadgen[2], Scott Geromanos[2], Jim Langridge[2]

1P-29 Utilizing Focused Acoustic Energy for Disruption of Rat Skin and Eye Tissue during Sample Preparation for LC-MS/MS Analysis ([1]Astellas Pharma, Inc., [2]Astellas Research Technologies Co., Ltd.) °Fumio Osaki[1], Masako Furutani[1], Yoko Susaki[1], Shigeyuki Terashita[1], Toshio Teramura[1], Miwa Hisamori[1], Motonobu Sato[1], Takeji Ohata[1], Toshiko Aoki[2], Takuya Sonoda[2]

1P-30 DBS Method Development to Completely Automated LC/MS/MS Analysis—The Use of SCAP for the Quantitative Bioanalysis of Drugs— ([1]Toray Researc Center, Inc., [2]AMR Inc.) °Souki Kanda[1], Amane Sakurai[1], Hiroshi Hike[2]

1P-31 High sensitive quantitative analysis of anti-inflammatory analgesics by tandem quadrupole mass spectrometer equipped with dual ion funnel technology (Agilent Technologies) °Yoshifumi Kogure

1P-32 Molecular Depth Profiling of the Multi-Layered Structure of Mouse Skin by TOF-SIMS ([1]ULVAC-PHI, [2]PHI-USA, [3]Keio Univ.) °Itsuko Ishizaki[1], John S. Hammond[2], Scott R. Bryan[2], Akiharu Kubo[3], Akira Yamamoto[1]

1P-33 Monitoring of Gap Junction by the Live Single-cell MS ([1]Biomed Sci., Hiroshima Univ., [2]QBiC, RIKEN) °Naohiro Tsuyama[1], Hajime Mizuno[1], Takanori Harada[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

1P-34 One shot analysis of Glycosaminoglycans ([1]Shimane Univ. Biochem., [2]Shimane Univ. Center for Integ. Res., [3]Shimane Univ. Orthop. Serg.) °Harumi Osago[1], Tomoko Shibata[2], Suguru Kuwata[3], Nobumasa Hara[1], Kazuo Yamada[1], Yuji Uchio[3], Mikako Tsuchiya[1]

1P-35 A liquid matrix 3-AQ/CHCA for detection of O-glycosylation of MT1-MMP in MALDI-MS analysis ([1]Div. of Cancer Cell Res., Inst. of Med. Sci., Univ. of Tokyo, [2]Med. Proteo. Lab., Inst. of Med. Sci., Univ. of Tokyo, [3]Shimadzu Corp.) °Takuya Shuo[1], Naohiko Koshikawa[1], Daisuke Hoshino[1], Tomoko Minegishi[1], Hiroko Kondo[2], Masaaki Oyama[2], Sadanori Sekiya[3], Shinichi Iwamoto[3], Koichi Tanaka[3], Motoharu Seiki[1]

1P-36 Automated glycopeptides analysis system with

MALDI-DIT MS ([1]Shimadzu Corp., [2]FHCRC, [3]Ventana Medical Systems) °Sadanori Sekiya[1], Masaki Murase[1], Hidenori Takahashi[1], Kentarou Morimoto[1], Shigeki Kajihara[1], Shinichi Iwamoto[1], Koichi Tanaka[1], Chee-Hong Wong[2], Hong Wang[2, 3], Samir Hanash[2]

1P-37 Improvement of Measurement Efficiency for Time-of-Flight Mass Spectrometer Combined with Ion Attachment Method (Toho Univ.) °Kazunari Takaya, Yuri Deguchi, Masayuki Suzuki, Yasuhiro Sakai

1P-38 Characterization of polyether mixture by pseudo 2D liquid chromatogram integrated with two LC-MS data using different columns ([1]Kansai Univ., [2]Nippon Synth. Chem. Ind., [3]Nissan Chem. Ind., [4]The Univ. of Tokushima) °Hirotaka Hisatomi[1], Yukari Nishimoto[2], Tomoyuki Ozawa[3], Hideya Kawasaki[1], Koichi Ute[4], Ryuichi Arakawa[1]

1P-39 Ionization in Nopolar Solvent with Using a Variety of Cation-Addition Reactions ([1]JST, [2]Tokyo Metro. Univ.) °Atsushi Takamizawa[1, 2], Naoto Niizuma[2], Ryohei Sumii[2], Takashi Korenaga[2]

1P-40 Highly sensitive MALDI analyses of glyco-peptides using liquid matrices 3-AQ/CHCA and 3-AQ/CA (Shimadzu Corp.) Yuko Fukuyama, °Natsumi Funakoshi, Shinichi Iwamoto, Koichi Tanaka

1P-41 SALDI-MS Using Metal Oxides Nanoparticle ([1]Dai Nippon Toryo Co., Ltd., [2]Shimadzu Corp., [3]Kansai Univ.) °Yusuke Tamura[1], Daigou Mizoguchi[1], Masato Murouchi[1], Makoto Gonda[2], Hideya Kawasaki[3], Ryuichi Arakawa[3]

1P-42 Electron-transfer-induced decomposition of di-oxetane-based chemiluminescent compounds by the use of MALDI-TOF-MS ([1]Kanagawa Univ., [2]Shimadzu Corp.) °Hisako K. Ijuin[1], Masaki Yamada[2], Masatoshi Tanimura[1], Mamoru Ohashi[1], Nobuko Watanabe[1], Masakatsu Matsumoto[1]

1P-43 Application of DART Mass Spectrometry on Exploring Forced Degradation Products of Active Pharmaceutical Ingredient in Drug Development Process ([1]Reno Osaka Univ., [2]ISIR Osaka Univ.) °Toshio Tashima[1], Takeyuki Suzuki[2], Kaori Asano[2], Tsuyoshi Matsuzaki[2]

1P-44 Improvement in sensitivity and resolution of MALDI mass spectra by addition of metal salt (Osaka Univ.) °Akihiro Ito, Naoya Inazumi, Ken-ichi Iijima, Tomomi Hirai

1P-45 Fast polarity switching MRM analysis using triple

quadrupole LC-MS/MS applied to benzodiaze-pines and their metabolites in clinical and forensic analysis ([1]Shimadzu, [2]Osaka Medical College, [3]Osaka Prefectural Police) Toshikazu Minohta[1], Natsuyo Asano[1], Kiyomi Arakawa[1], °Jun Watanabe[1], Junko Iida[1], Hitoshi Tsuchihashi[2], Kouichi Suzuki[2], Kei Zaitsu[3], Noriaki Shima[3], Munehiro Katagi[3]

1P-46 Simultaneous determination of perfluoro com-pounds containing precursors and intermediate metabolites using LC-APCI-MS ([1]Kansai Univ., [2]Hyogo Pref. Inst. of Env. Sci., [3]Kobe Univ., [4]Osaka Univ.) °Yoshinari Yamoto[1], Syusuke Takemine[2], Chisato Matsumura[2], Motoharu Suzuki[3], Hideya Kawasaki[1], Takeshi Nakano[4], Ryuichi Arakawa[1]

1P-47 Synthesis of $^{13}C_6$-dabsyl chloride and its applica-tion to quantitative analysis of biogenic amines (Shiga Univ. Med Sci.) °Tetsuo Ishida, Hiroyuki Tanaka, Kihachiro Horiike

1P-48 Field test of high-throughput walkthrough portal for detecting improvised explosive devices (IEDs) at an airport and train station (Hitachi, Ltd.) °Hisashi Nagano, Yohei Kawaguchi, Masuyuki Sugiyama, Yuichiro Hashimoto, Yasu-taka Suzuki, Minoru Sakairi, Yasuaki Takada

1P-49 MALDI-Digital-Ion-Trap-TOFMS with Ion Trap Pass-through TOF Mode (Shimadzu Corp.) °Kei Kodera, Masafumi Jinno, Kiyoshi Watanabe, Makoto Hazama, Masaji Furuta, Sadanori Sekiya, Kaori Kinoshita, Hidenori Takahashi, Kosuke Hosoi, Toshinori Kobayashi, Shinichi Iwamoto, Koichi Tanaka

1P-50 Enhancing the Sensitivity of a Quadrupole Time-of-Flight Mass Spectrometer Using a Novel Conjoined Ion Guide ([1]Nihon Waters, [2]waters) °Futoshi Sato[1], Kevin Giles[2], Martin Green[2], Jason Wildgoose[2], Martin Palmer[2]

1P-51 Comparison of the peculiar shape of the fragment peak in the dissociation of excited CH_3I with potential energy curves ([1]Osaka Pref. Univ., [2]Osaka Pref. Univ., [3]Osaka Pref. Univ.) °Shigeo Hayakawa[1], Taiga Tsujinaka[2], Akimasa Fujihara[3]

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Room A (Orbit Hall)

Oral Presentations

(9:00～10:00) Chair: Shingo Horimoto (Mitsubishi Tanabe Pharma Corp.)

2A-O1-0900　High sensitive quantification for targeted compounds by benchtop quadrupole orbitrap MS "Q-Exactive" (Thermofisher) °Kentaro Takahara, Yoko Yamagishi, Shigeru Sakamoto

2A-O1-0920　☆Development of highly sensitive and selective metabolic profiling system by gas chromatography/triple quadrupole mass spectrometry ([1]Osaka Univ., [2]Agilent Technologies Japan, Ltd.) °Yuki Tsujimoto[1], Hiroshi Tsugawa[1], Kuniyo Sugitate[2], Norihiro Sakui[2], Takeshi Bamba[1], Eiichiro Fukusaki[1]

2A-O1-0940　Separation and identification of Ca^{2+}-binding calmodulin complexes with peptides using LC-FTMS ([1]Yokohama City Univ., [2]Kansai Univ., [3]Hokkaido Univ., [4]JAIST) °Issey Osaka[1], Hiroki Fujimori[2], Akiko Nakatomi[3], Shin-ya Ohki[4], Hideya Kawasaki[2], Ryuichi Arakawa[2]

Poster Short Presentations

(10:15～10:50) Chair: Shingo Horimoto (Mitsubishi Tanabe Pharma Corp.)

2A-SP-1015 (2P-01)　☆Mass^{++} 2.0.0: New version of freeware mass spectrometry analysis software ([1]Shimadzu Corp., [2]Eisai, [3]NAIST) °Howell Parry[1], Satoshi Tanaka[1], Tsuyoshi Tabata[2], Ken Aoshima[2], Yoshiya Oda[2], Yoshito Nihei[3], Takaaki Nishioka[3], Shinichi Utsunomiya[1], Shigeki Kajihara[1], Koichi Tanaka[1]

2A-SP-1020 (2P-02)　Efficient profiling of plant photoresponse metabolites by the Live Single-cell MS and look-up metabolic map software ([1]Hiroshima Univ., [2]QBiC RIKEN) °Takashi Fujii[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

2A-SP-1025 (2P-03)　☆Sensitivity enhancement in LC-MS analysis of human cultured cell proteome and phosphoproteome by using meter-scale monolithic silica capillary columns ([1]Kyoto Univ., [2]GL Sciences) °Mio Iwasaki[1], Masaki Wakabayashi[1], Minoru Nakano[1], Nobuo Tanaka[2], Yasushi Ishihama[1]

2A-SP-1030 (2P-04)　☆Estimation and Optimization of the Peak Capacity of One-Dimensional Gradient HPLC Using a Long Monolithic Silica Capillary Column ([1]Eisai Co., Ltd., Pharmaceutical Science and Technology Core Function Unit, Global Formulation Japan, [2]Eisai Co., Ltd., Biomarkers and Personalized Medicine Core Function Unit, [3]Kyoto Univ., [4]Kyoto Institute of Technology, [5]GL Science) °Kanta Horie[1], Yoshiaki Sato[2], Takayuki Kimura[2], Tatsuji Nakamura[2], Yasushi Ishihama[3], Yoshiya Oda[2], Tohru Ikegami[4], Nobuo Tanaka[4, 5]

2A-SP-1035 (2P-05)　☆Metabolomics analysis of serum lysophosphatidylcholine (LPC) levels ([1]Kobe Pharm. Univ., [2]Kobe Univ., [3]Kobe Gakuin Univ.) °Nao Kawamura[1], Chika Takashima[1], Atsuko Takeuchi[1], Akimori Wada[1], Ichiro Morioka[2], Masafumi Matsuo[3]

2A-SP-1040 (2P-06)　☆Exploration of neoplastic tumor marker by differential LC-MS ([1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]Hiroshima Univ., N-BARD, [3]QBiC, RIKEN) °Yukina Hirai[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Eiso Hiyama[2], Sachiko Date[3], Tsutomu Masujima[1, 3]

2A-SP-1045 (2P-07)　☆Development of oxidized phosphatidylcholines profiling method by supercritical fluid chromatography/tandem mass spectrometry ([1]Osaka Univ., [2]Kobe Univ.) °Takato Uchikata[1], Atsuki Matsubara[1], Shin Nishiumi[2], Masakazu Shinohara[2], Masaru Yoshida[2], Eiichiro Fukusaki[1], Takeshi Bamba[1]

Luncheon Seminar (Presented by K.K. AB SCIEX)

(12:10～13:10)

2A-L-1210　The roles and potential of mass spectrometry for biomarker research in drug discovery (Takeda Pharmaceutical) °Yoshinori Satomi

Oral Presentations

(14:20～15:20) Chair: Kentaro Yamaguchi (Tokushima Bunri Univ.)

2A-O2-1420　☆Electron transfer dissociation of protonated disulfide linked polypeptides ([1]Osaka Pref. Univ., [2]Osaka Univ., [3]AIST, [4]Osaka MCHRI) °Shinya Matsumoto[1], Akimasa Fujihara[1], Shigeo Hayakawa[1], Michisato Toyoda[2], Yasushi Shigeri[3], Yoshinao

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Wada[4], Michiko Tajiri[4]

2A-O2-1440 Fragmentation Mechanisms of Phosphorylated Tetrapeptide Ions in Collision-Induced Dissociations—The Suppression of Neutral Loss Using "On-Resonance" Pulsed Gas Introduction CID— ([1]Nara Women's Univ., [2]Nara Women's Univ., [3]Shimadzu Co., [4]AIST) Erika Sugahara[1], Yuka Kurosaki[2], Ayaka Takahashi[1], Shigeki Kajihara[3], Hiroko Morinaga[3], Shinichi Iwamoto[3], Koichi Tanaka[3], °Takae Takeuchi[2, 4]

2A-O2-1500 Peptide Cation Radicals by Electron-Ion Recombination (UW) °Frantisek Turecek, Christopher Moss, Thomas Chung

Plenary Lectures 2
(15:45～16:35) Chair: Mitsuo Takayama (Yokohama City Univ.)
2A-PL-1545 Fundamental Insights and Future Prospects on Ionization Methods (Univ. of Yamanashi) °Kenzo Hiraoka

Award Lectures
(16:35～17:55) Chair: Ryuichi Arakawa (Kansai Univ.)
2A-AW-1635 ☆Structural Study of Proteins and Peptides by using Mass Spectrometry (Science Education) °Kazuo Hirayama

2A-AW-1655 Development of Mass Spectrometry-Based Analytical Systems for Proteomics and Phosphoproteomics ([1]Kyoto Univ., [2]Keio Univ.) °Yasushi Ishihama[1, 2]

2A-AW-1715 Laser Desorption/Ionization Mass Spectrometry Using Functional Metal Nanoparticles (Kansai Univ.) °Hideya Kawasaki

2A-AW-1735 Direct Tissue Analysis Using Mass Spectrometry (Osaka Univ.) °Shuichi Shimma

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

Room B (Seiun 1)

Oral Presentations
(9:00～10:00) Chair: Shuichi Shimma (Osaka Univ.)
2B-O1-0900 ☆Development and Evaluation of New Stigmatic Mass Microscope with High Mass and Spatial Resolving Power Using Multi-Turn Time-of-Flight Mass Spectrometer ([1]Osaka Univ., [2]Osaka Univ., [3]GPI, [4]Osaka Institute of Technology, [5]JST) °Jun Aoki[1, 5], Michisato Toyoda[1, 5], Hisanao Hazama[2, 5], Kunio Awazu[2, 5], Kenichi Fuji[4, 5], Yasuhide Naito[3, 5]

2B-O1-0920 ☆Multi-Omics Imaging by Mass Spectrometry ([1]Kyushu Univ., [2]Kyushu Univ., [3]Kyushu Univ.) Ayumi Yamaguchi[1], °Daisuke Miura[2], Yoshinori Fujimura[2], Hiroyuki Wariishi[2, 3]

2B-O1-0940 ☆Observation of Tissue Sections Using a Laser Ionization Stigmatic Mass Microscope ([1]Grad. School Eng., Osaka Univ., [2]Grad. School Sci., Osaka Univ., [3]GPI, [4]JST, CREST) °Hisanao Hazama[1, 4], Tomonori Hamanaka[1], Jun Aoki[2, 4], Michisato Toyoda[2, 4], Yasuhide Naito[3, 4], Kunio Awazu[1, 4]

Poster Short Presentations
(10:15～10:50) Chair: Shuichi Shimma (Osaka Univ.)
2B-SP-1015 (2P-08) ☆The suppression of oxygen adducts reaction of abietic acid in the ionization process by inorganic particles-assisted laser desorption/ionization ([1]SUNBOR, [2]Kansai Univ.) °Takehiro Watanabe[1], Asuka Masumoto[2], Hideya Kawasaki[2], Ryuichi Arakawa[2], Tohru Yamagaki[1]

2B-SP-1020 (2P-09) ☆Analysis of sugar chains by thin-layer chromatography desorption electrospray ionization mass spectrometry (TLC/DESI-MS) ([1]Kansai Univ, [2]Kansai Univ, [3]Osaka Univ, [4]Kansai Univ, [5]Kansai Univ) °Sayuri Shide[1], Tetuya Furuike[2], Toshio Tashima[3], Hideya Kawasaki[4], Ryuichi Arakawa[5]

2B-SP-1025 (2P-10) ☆Improving Bioanalytical Selectivity in Differential Mobility Spectrometry—Mass Spectrometry Using Chemical Effects (AB SCIEX) °Ryoma Yamamoto, Shigeru Yamada

2B-SP-1030 (2P-11) ☆Highly sensitive analysis of glycopeptides using labeling technique by

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MALDI-MS (Shimadzu Corp.) °Kenichi Taniguchi, Yuko Fukuyama, Yutaka Ibuki, Koichi Tanaka

2B-SP-1035 (2P-12) ☆Kinetic analysis of bilirubin glucuronidation by UDP-glucuronosyltransferase 1A1 ([1]Kobe Pharm. Univ., [2]Kobe Univ.) °Shoichi Ohmi[1], Atsuko Takeuchi[1], Akimori Wada[1], Hisahide Nishio[2]

2B-SP-1040 (2P-13) ☆Development of Double Cylindrical Dielectric Barrier Discharge Ion Source Installed on the Orbitrap Exactive Mass Spectrometer ([1]CERC, [2]Univ. Yamanashi) °Md Ahsan Habib[1], Lee Chuin Chen[2], Satoshi Ninomiya[2], Kenzo Hiraoka[1]

2B-SP-1045 (2P-14) ☆Live single cell MS searching for spatial molecular distribution in plant tissue ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]QBiC, RIKEN) °Atsushi Kurisu[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

Luncheon Seminar (Presented by Bruker Daltonics)
(12:10～13:10)

2B-L-1210 The introduction of Bruker Daltonics novel mass spectrometry (BDAL K.K.) Noriyuki Iwasaki, Jouji Seta, Haruo Hosoda, Kazunori Saito, Yumiko Matsuyama, Toshizi Kudoh, °Takashi Nirasawa

Oral Presentations
(14:20～15:40) Chair: Kenichi Iwamoto (Osaka Pref. Univ.)

2B-O2-1420 ☆Improvement of Ionization Efficiency for Spray Ionization Method Using Cationization in Non-polar Solvent ([1]Tokyo Metropolitan University, [2]Japan Science and Technology Agency) °Naoto Niizuma[1], Atsushi Takamizawa[1, 2], Takashi Korenaga[1]

2B-O2-1440 ☆Direct Analysis of Biomolecules by Probe Electrospray Ionization Mass Spectrometry ([1]CERC, [2]Univ. Yamanashi, [3]Univ. Yamanashi) °Mridul Kanti Mandal[1], Lee Chuin Chen[2], Kentaro Yoshimura[3], Zhan Yu[1], Sen Takeda[3], Kenzo Hiraoka[1]

2B-O2-1500 ☆Mass Spectrometric Detection of Explosives by Ambient Sampling Chemical Ionization ([1]CERC, [2]Univ. Yamanashi) °Md Ahsan Habib[1], Lee Chuin Chen[2], Kenzo Hiraoka[1]

2B-O2-1520 ☆Fundamental Aspect and Phospho-

proteomics Application of MALDI In-Source Decay *via* Hydrogen Abstraction (Yokohama City Univ.) °Daiki Asakawa, Mitsuo Takayama

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

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Room C（Seiun 2）

Oral Presentations

（9：00～10：00）Chair: Shigeru Sakamoto (Thermo Fisher)

2C-O1-0900　Chirality Detection of the 1：2 Metal/Ph-pybox Complex Ion by ESIMS （[1]OMTRI, [2]Kansai Univ., [3]ISIR Osaka Univ.）°Hiro-fumi Sato[1], Takashi Nakakoji[2], Yoshitake Suzuki[2], Yoshio Takai[3], Hideya Kawasaki[2], Ryuichi Arakawa[2], Motohiro Shizuma[1]

2C-O1-0920　☆Chiral-Discriminating Ability of Chiral Tetradentate Ligand/Metal Complex-Ion toward Amino Acids Evaluated by ESIMS （[1]Kansai Univ., [2]OMTRI）°Takashi Nakakoji[1], Hirofumi Sato[2], Hideya Kawasaki[1], Ryuichi Arakawa[1], Motohiro Shizuma[2]

2C-O1-0940　Determination of Stability Constants for Enantioselective Complexation in Matrix Using FAB Mass Spectrometry （[1]OMTRI, [2]Fac. of Science, Osaka Univ., [3]ISIR, Osaka Univ., [4]Eng. Sci., Osaka Univ., [5]Kansai Univ.）°Motohiro Shizuma[1], Hiroshi Adachi[2], Kaori Asano[3], Tsuyoshi Matsuzaki[3], Hirofumi Sato[1], Takeyuki Suzuki[3], Keiji Hirose[4], Yoshito Tobe[4], Hideya Kawasaki[5], Ryuichi Arakawa[5], Daisuke Ono[1]

Poster Short Presentations

（10：15～10：50）Chair: Shigeru Sakamoto (Thermo Fisher)

2C-SP-1015 (2P-15)　☆The Formula Prediction and Identification of Peptide in Imaging Mass Spectrometry （[1]Shimadzu Corp., [2]Keio Univ.）°Hiroko Morinaga[1], Shigeki Kajihara[1], Yumi Matsumoto[1], Shinichi Yamaguchi[1], Akiko Kubo[2], Kiyoshi Ogawa[1]

2C-SP-1020 (2P-16)　☆Vacuum Electrospray of Water Assisted by Laser Irradiation （[1]Univ. of Yamanashi Med. and Eng., [2]Univ. of Yamanashi CERC）°Satoshi Ninomiya[1], Lee Chuin Chen[1], Yuji Sakai[2], Kenzo Hiraoka[2]

2C-SP-1025 (2P-17)　☆Development of a multi-turn time-of-flight mass spectrometer with an atmospheric ionization （[1]Osaka Univ., [2]MSI TOKYO）°Masanobu Nakazono[1], Hiroki Andoh[1], Shinich Miki[2], Michisato Toyoda[1, 2]

2C-SP-1030 (2P-18)　☆Direct Analysis of Fragment Ions of Angiotensin I Realized by the Mass-Charge Separated Measurement Using Superconducting Tunnel Junction Detector （AIST）°Nobuyuki Zen, Masahiro Ukibe, Shigetomo Shiki, Masataka Ohkubo

2C-SP-1035 (2P-19)　☆LC-MS separation and detection of plasma molecules （[1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]QBiC, RIKEN）Haruka Omi[1], Hideyuki Sumida[1], °Tomonari Fujimura[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

2C-SP-1040 (2P-20)　☆SRM analysis and detection of Glial Fibrillary Acidic Protein in the Sera of Cattle with Bovine Spongiform Encephalopathy （[1]Meat Science Institute, [2]Rakuno Univ.）°Tomokazu Suzuki[1], Emi Tanaka[1], Naoyuki Maeda[1, 2], Taku Miyasyou[2], Hiroshi Yokota[2]

2C-SP-1045 (2P-21)　☆Structural analysis of silicone compound by TEOS resolution GC/MS method （Nipponkayaku Co., Ltd.）°Takahiro Hoshi, Sumio Ichimura, Kouichi Tsuchiya

Luncheon Seminar（Presented by JEOL Ltd.）

（12：10～13：10）

2C-L-1210　Introduction of a new GC-QMS, JMS-Q1050GC and new applications of the JMS-S3000 "SpiralTOF" MALDI-TOFMS （JEOL）°Yoshiyuki Ito, Junichi Osuga

Oral Presentations

（14：20～15：20）Chair: Michisato Toyoda (Osaka Univ.)

2C-O2-1420　☆Observation of Ca Isotopes Using ICPMS-IT-LCS (Ion Trap Laser Cooling Spectroscopy) （Univ. of Tokyo）°Masanori Kitaoka, Yuta Yamamoto, Takuma Yoshida, Kyunghun Jung, Shuichi Hasegawa

2C-O2-1440　☆The effect of electrically charged clouds on the stable nitrogen isotope ratio and the anion concentrations in cloud-based aerosols （Tokyo Univ. of Agr. & Tech.）°Hidemitsu Katsura

2C-O2-1500　Development of gas-phase NMR spectrometer for mass-selected ions （[1]Kobe Univ., [2]Osaka Pref. Univ.）°Kiyokazu Fuke[1], Masahide Tona[1], Akimasa Fujihara[2], Makoto Sakurai[1], Haruki Ishikawa[1]

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

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Poster Room（Gekko）

Core time (Odd numbers): 11：00〜12：00
Core time (Even numbers): 13：15〜14：15

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

2P-01　☆Mass[++] 2.0.0 : New version of freeware mass spectrometry analysis software ([1]Shimadzu Corp., [2]Eisai, [3]NAIST) °Howell Parry[1], Satoshi Tanaka[1], Tsuyoshi Tabata[2], Ken Aoshima[2], Yoshiya Oda[2], Yoshito Nihei[3], Takaaki Nishioka[3], Shinichi Utsunomiya[1], Shigeki Kajihara[1], Koichi Tanaka[1]

2P-02　☆Efficient profiling of plant photoresponse metabolites by the Live Single-cell MS and look-up metabolic map software ([1]Hiroshima Univ., [2]QBiC RIKEN) °Takashi Fujii[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

2P-03　☆Sensitivity enhancement in LC-MS analysis of human cultured cell proteome and phospho-proteome by using meter-scale monolithic silica capillary columns ([1]Kyoto Univ., [2]GL Sciences) °Mio Iwasaki[1], Masaki Wakabayashi[1], Minoru Nakano[1], Nobuo Tanaka[2], Yasushi Ishihama[1]

2P-04　☆Estimation and Optimization of the Peak Capacity of One-Dimensional Gradient HPLC Using a Long Monolithic Silica Capillary Column ([1]Eisai Co., Ltd., Pharmaceutical Science and Technology Core Function Unit, Global Formulation Japan, [2]Eisai Co., Ltd., Biomarkers and Personalized Medicine Core Function Unit, [3]Kyoto Univ., [4]Kyoto Institute of Technology, [5]GL Science) °Kanta Horie[1], Yoshiaki Sato[2], Takayuki Kimura[2], Tatsuji Nakamura[2], Yasushi Ishihama[3], Yoshiya Oda[2], Tohru Ikegami[4], Nobuo Tanaka[4, 5]

2P-05　☆Metabolomics analysis of serum lysophosphatidylcholine (LPC) levels ([1]Kobe Pharm. Univ., [2]Kobe Univ., [3]Kobe Gakuin Univ.) °Nao Kawamura[1], Chika Takashima[1], Atsuko Takeuchi[1], Akimori Wada[1], Ichiro Morioka[2], Masafumi Matsuo[3]

2P-06　☆Exploration of neoplastic tumor marker by Differential LC-MS ([1]Hiroshima Univ., Grad.Sch. Biomed.Sci., [2]Hiroshima Univ., N-BARD, [3]QBiC, RIKEN) °Yukina Hirai[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Eiso Hiyama[2], Sachiko Date[3], Tsutomu Masujima[1, 3]

2P-07　☆Development of oxidized phosphatidylcholines profiling method by supercritical fluid chromatography/tandem mass spectrometry ([1]Osaka Univ., [2]Kobe Univ.) °Takato Uchikata[1], Atsuki Matsubara[1], Shin Nishiumi[2], Masakazu Shinohara[2], Masaru Yoshida[2], Eiichiro Fukusaki[1], Takeshi Bamba[1]

2P-08　☆The suppression of oxygen adducts reaction of abietic acid in the ionization process by inorganic particles-assisted laser desorption/ionization. ([1]SUNBOR, [2]Kansai Univ.) °Takehiro Watanabe[1], Asuka Masumoto[2], Hideya Kawasaki[2], Ryuichi Arakawa[2], Tohru Yamagaki[1]

2P-09　☆Analysis of sugar chains by thin-layer chromatography desorption electrospray ionization mass spectrometry (TLC/DESI-MS) ([1]Kansai Univ., [2]Kansai Univ., [3]Osaka Univ., [4]Kansai Univ., [5]Kansai Univ.) °Sayuri Shide[1], Tetuya Furuike[2], Toshio Tashima[3], Hideya Kawasaki[4], Ryuichi Arakawa[5]

2P-10　☆Improving Bioanalytical Selectivity in Differential Mobility Spectrometry—Mass Spectrometry Using Chemical Effects (AB SCIEX) °Ryoma Yamamoto, Shigeru Yamada

2P-11　☆Highly sensitive analysis of glycopeptides using labeling technique by MALDI-MS (Shimadzu Corp.) °Kenichi Taniguchi, Yuko Fukuyama, Yutaka Ibuki, Koichi Tanaka

2P-12　☆Kinetic analysis of bilirubin glucuronidation by UDP-glucuronosyltransferase 1A1 ([1]Kobe Pharm. Univ., [2]Kobe Univ.) °Shoichi Ohmi[1], Atsuko Takeuchi[1], Akimori Wada[1], Hisahide Nishio[2]

2P-13　☆Development of Double Cylindrical Dielectric Barrier Discharge Ion Source Installed on the Orbitrap Exactive Mass Spectrometer ([1]CERC, [2]Univ. Yamanashi) °Md Ahsan Habib[1], Lee Chuin Chen[2], Satoshi Ninomiya[2], Kenzo Hiraoka[1]

2P-14　☆Live single cell MS searching for spatial molecular distribution in plant tissue ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]QBiC, RIKEN) °Atsushi Kurisu[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

2P-15　☆The Formula Prediction and Identification of Peptide in Imaging Mass Spectrometry ([1]Shimadzu Corp., [2]Keio Univ.) °Hiroko Morinaga[1], Shigeki Kajihara[1], Yumi Matsumoto[1], Shinichi Yamaguchi[1], Akiko Kubo[2], Kiyoshi Ogawa[1]

2P-16　☆Vacuum Electrospray of Water Assisted by Laser Irradiation ([1]Univ. of Yamanashi Med. and Eng., [2]Univ. of Yamanashi CERC) °Satoshi Ninomiya[1], Lee Chuin Chen[1], Yuji Sakai[2], Kenzo

Hiraoka[2]

2P-17 ☆Development of a multi-turn time-of-flight mass spectrometer with an atmospheric ionization ([1]Osaka Univ., [2]MSI TOKYO) °Masanobu Nakazono[1], Hiroki Andoh[1], Shinich Miki[2], Michisato Toyoda[1, 2]

2P-18 ☆Direct Analysis of Fragment Ions of Angiotensin I Realized by the Mass-Charge Separated Measurement Using Superconducting Tunnel Junction Detector (AIST) °Nobuyuki Zen, Masahiro Ukibe, Shigetomo Shiki, Masataka Ohkubo

2P-19 ☆LC-MS separation and detection of plasma molecules ([1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]QBiC, RIKEN) Haruka Omi[1], Hideyuki Sumida[1], °Tomonari Fujimura[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

2P-20 ☆SSRM analysis and detection of Glial Fibrillary Acidic Protein in the Sera of Cattle with Bovine Spongiform Encephalopathy ([1]Meat Science Institute, [2]Rakuno Univ.) °Tomokazu Suzuki[1], Emi Tanaka[1], Naoyuki Maeda[1, 2], Taku Miyasyou[2], Hiroshi Yokota[2]

2P-21 ☆Structural analysis of silicone compound by TEOS resolution GC/MS method (Nipponkayaku Co., Ltd.) °Takahiro Hoshi, Sumio Ichimura, Kouichi Tsuchiya

2P-22 Multivariate analysis using MS background subtraction ([1]Reifycs Inc., [2]Shimadzu Corporation) °Mitsuhiro Kanazawa[1], Atsushi Ogiwara[1], Hisae Anyoji[1], Jun Watanabe[2], Junko Iida[2]

2P-23 Establishment of easy method to prevent carryover of peptides in Nano LC-MS (Chugai Pharmaceutical Co., Ltd.) °Takashi Shinkawa, Kohji Nagano, Nami Yabuki, Kuniyasu Kato, Noriyuki Inomata, Masayuki Haramura

2P-24 Development of novel MS probes for high-sensitivity proteomics (Shimadzu Corp.) °Takashi Shimada, Taka-Aki Sato, Koichi Tanaka

2P-25 Amino acid analysis utilizing isotope-dilution and development of C-peptide certified reference material ([1]AIST, [2]TMD) °Tomoya Kinumi[1], Mari Goto[1], Megumi Kato[1], Takeshi Kasama[2], Akiko Takatsu[1]

2P-26 Analysis of modified amyloid beta peptide ([1]Asahikawa Medical Univ., [2]Asahikawa Medical Univ.) °Hiroaki Akutsu[1], Naomi Tsumura[2], Masao Nakamura[2]

2P-27 Establishment of comprehensive quantitative proteomics of epithelial cell membrane transporters by mass spectrometric analysis (Osaka Univ.) °Kazuaki Takafuji, Takashi Nishiyama, Shushi Nagamori, Yoshikatsu Kanai

2P-28 Direct analysis of lipid molecular species in localized areas from tissue thin sections by liquid extraction surface analysis (LESA) with nano-ESI ([1]Chubu Univ., [2]Keio Univ., [3]NIHS) Miho Goto[1], Yoshiki MIzuno[1], Akinori Mizuno[1], Kazutaka Ikeda[2], Yoko Tajima[3], °Ryo Taguchi[1, 2, 3]

2P-29 Development of useful software to search for drug metabolites ([1]Astellas Pharma Inc., [2]Shiseido Irica Technology Inc.) °Yoko Susaki[1], Tsuneaki Kaneko[2], Kohichiro Tanaka[1], Kazuyoshi Nozaki[1], Shigeyuki Terashita[1], Toshio Teramura[1]

2P-30 Novel Tools for Automated Metabolite Identification, Biotransformation Localization and Quantitation Using UPLC-QTOF MSE ([1]Waters, [2]Waters, [3]Waters) °Motoji Oshikata[1], Stephen Mcdonald[2], Mark Wrona[2], Jeff Goshawk[3], Alan Millar[2], Noriko Kato[1], Yukari Haramaki[1]

2P-31 Analysis of drugs in biological samples using online SPE-LC/MS/MS (Jasco Int.) Noriko Kagi, °Hideto Kakimi

2P-32 Ultrahigh Spectral Resolution in Drug Imaging-MS ([1]Bruker Daltonics K.K., [2]Kyoto Prefectural Univ. of Med.) °Takashi Nirasawa[1], Kazunori Saito[1], Masaya Ikegawa[2]

2P-33 Imaging mass spectrometry of the additive ingredient of the films using Pt nanoparticles (Kansai Univ.) °Tetsuro Higashiisokawa, Hideya Kawasaki, Ryuichi Arakawa

2P-34 MALDI MS analysis of N-glycan structures of a cell adhesion molecule, CADM1 ([1]Div. of Mol. Pathol., Inst. of Med. Sci., Univ. of Tokyo, [2]Med. Proteo. Lab., Inst. of Med. Sci., Univ. of Tokyo, [3]Shimadzu Corp.) °Mika Sakurai-Yageta[1], Tomoko Maruyama[1], Megumi Ishimura[1], Azusa Yanagawa[1], Masaaki Oyama[2], Hiroko Kondo[2], Sadanori Sekiya[3], Shinichi Iwamoto[3], Koichi Tanaka[3], Yoshinori Murakami[1]

2P-35 Understanding characteristics of zwitterionic HILIC columns for improved LC/MS methods of polar compounds. ([1]Merck SeQuant, [2]Umea Univ.) °Tobias Jonsson[1], Ngoc Phuoc Dinh[1, 2], Wen Jiang[1], Petrus Hemstrom[1], Patrik Appelblad[1], Knut Irgum[2]

2P-36 Shotgun proteomics using monolithic 2 meter long nanoLC-MS/MS ([1]Astellas Pharma Inc., [2]GL Science Inc.) °Masashi Hiramoto[1], Satoru Ujihara[1], Masatoshi Yuri[1], Masamichi Yuda[1], Toshio Teramura[1], Masanori Motokawa[2], Nobuo Tanaka[2]

2P-37 Clusters in azeotropic mixtures of acetonitrile–water and acetonitrile–ethanol studied by liquid-ionization MS/MS. ([1]Yokohama Nat. Univ., [2]Yamanashi Univ) °Masahiko Tsuchiya[1], Yasuo Shida[2]

2P-38 Development of Thin Layer Chromatography-Atmospheric Pressure Ionizations/Mass Spectrometer (TLC-API/MS) (Kanagawa Univ.) °Yoshiyuki Mochida

2P-39 Importance of Water in Surface-Assisted Laser Desortion/Ionization Mass Spectrometry (Yokohama City Univ.) °Shohey Moriguchi, Mitsuo Takayama

2P-40 Highly sensitive MALDI analyses of hydrophobic peptides using a novel additive ADHB with conventional matrices ([1]Shimadzu Corp., [2]Hiroshima Univ.) Yuko Fukuyama[1], °Ritsuko Tanimura[1], Shunsuke Izumi[2], Shinichi Iwamoto[1], Koichi Tanaka[1]

2P-41 Human Serum Albumin-Modified Fe_3O_4 Nanoparticles for Affinity SALDI-MS *via* the Protein–Drug Interactions (Kansai Univ.) °Yuichi Iwaki, Hideya Kawasaki, Ryuichi arakawa

2P-42 A Workflow for Metabolic Profiling and Elemental Composition Determination Using FT-ICR MS ([1]Bruker, [2]Kyushu Univ., [3]Kyushu Univ.) °Kazunori Saito[1], Tatsuhiko Nagao[2], Daisuke Miura[3], Takashi Nirasawa[1], Hiroyuki Wariishi[2, 3]

2P-43 A comparative study of electrolytes in Li-ion batteries and structural elucidation of electrolyte additives (AB SCIEX) °Kaoru Karasawa

2P-44 New Chiral Stationary Phase Screening the Fast Atom Bombardment Mass Spectrometry Coupling with Enantiomer-Labeled Guest Method ([1]OMTRI, [2]Osaka Inst. Tech., [3]ISIR, Osaka Univ.) °Motohiro Shizuma[1], Yoshiki Akasegawa[2], Hirofumi Sato[1], Kaori Asano[3], Tsuyoshi Matsuzaki[3], Osamu Shimomura[2], Ryoki Nomura[2], Takeyuki Suzuki[3], Daisuke Ono[1]

2P-45 The High resolution and accurate LC-MS/MS and Software Tools for Non-targeted Screening for Food (K.K. AB SCIEX) °Kayako Suga, Yuriko Ozeki, Sumie Ando

2P-46 The target and non-target screening analyses of sulfa and quinolone drugs spiked in milk by using a benchtop FTMS LC-Orbitrap-MS (Thermo Fisher) °Tomoko Hamasaka, Yoko Yamagishi, Shigeru Sakamoto

2P-47 Characterization of fragrance derived from hop in beer using GC×GC TOFMS ([1]Suntory Liquors Ltd., [2]LECO Japan Corp.) Takako Inui[1], Mariko Ishimaru[1], °Fumihiko Tsuchiya[2], Kaneo Oka[1]

2P-48 Development of fast scanning technologies for a triple quadrupole mass spectrometer (Shimadzu Corp.) °Daisuke Okumura, Shiro Mizutai, Hiroto Itoi

2P-49 A study of morphogen regulating the cleavage-stage of sea urchin by using direct single-cell molecular analysis (Hiroshima Univ.) °Kazuki Maeda, Takashi Yamamoto, Naoaki Sakamoto, Shunsuke Izumi

2P-50 Simulation of ion trajectories in a linear ion trap with plate electrodes inserted between rod electrodes (Osaka Univ) °Takahiro Kida, Daisuke Nakashima, Singo Ebata, Morio Ishihara

2P-51 Ion-molecule reaction of isomers of hydroxybenzoic acid with atmospheric negative ions (Yokohama City Univ.) °Rena Gonda, Kanako Sekimoto, Mitsuo Takayama

2P-52 Fundamental study of ambient ion-molecule reactions (Yokohama City Univ.) °Yuriho Nagasaki, Kanako Sekimoto, Mitsuo Takayama

Thursday, September 15

Room A (Orbit Hall)

Oral Presentations

(9:00~10:00) Chair: Yoshihiko Takinami (Shionogi & Co., Ltd.)

3A-O1-0900　☆Development of a novel data processing system for non-targeted gas chromatography/mass spectrometry-based metabolomics study ([1]Osaka Univ., [2]Tokyo Univ.) °Hiroshi Tsugawa[1], Yuki Tsujimoto[1], Naoki Kawase[1], Masanori Arita[2], Takeshi Bamba[1], Eiichiro Fukusaki[1]

3A-O1-0920　☆A Novel Method for Metabolite Correlation Analysis Exploiting High-throughput Mass Spectrometric Technique for Metabolite Analysis Based on MALDI-MS ([1]Biores. Bioenv. Sci., Kyushu Univ., [2]ICMRN, Kyushu Univ., [3]Bioarc., Kyushu Univ., [4]Fac. of Agric., Kyushu Univ.) °Daichi Yukihira[1], Daisuke Miura[2], Hiroyuki Wariishi[2, 3, 4]

3A-O1-0940　Higher quality and number of large scale proteome by bench top quadrupole orbitrap MS, Q Exactive. (Thermo Fisehr) °Daisuke Higo, Meiying Han, Yoko Yamagishi, Shigeru Sakamoto

Poster Short Presentations

(10:15~10:50) Chair: Yoshihiko Takinami (Shionogi & Co., Ltd.)

3A-SP-1015 (3P-01)　☆Evaluation of a novel database search algorithm using MSn spectra ([1]Shimadzu Corp., [2]Eisai) °Kentaro Morimoto[1], Masaki Murase[1], Tsuyoshi Tabata[2], Shigeki Kajihara[1], Ken Aoshima[2], Yoshiya Oda[2], Koichi Tanaka[1]

3A-SP-1020 (3P-02)　☆Development of Algorithm Enabling Data-driven Determination of Elemental Composition Based on Isotopic Peak Ratio Observed by Ultrahigh-resolution FT-ICR-MS ([1]Biores. Bioenv. Sci., Kyushu Univ., [2]ICMRN, Kyushu Univ., [3]Bioarc., Kyushu Univ., [4]Fac. of Agric., Kyushu Univ.) °Tatsuhiko Nagao[1], Daichi Yukihira[1], Yoshinori Fujimura[2], Daisuke Miura[2], Hiroyuki Wariishi[2, 3, 4]

3A-SP-1025 (3P-03)　☆N-Terminal selective derivatization with a 4-amidinophenyl group to improve peptide fragmentation (Kyoto Univ.) °Toru Yoshikawa, Masahiro Miyashita, Hisashi Miyagawa

3A-SP-1030 (3P-04)　☆Spatio-temporal Molecular Distribution in a Developing Frog (*Xenopus*) Egg by LC-MS ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]Grad.Sch.Sci., Hiroshima Univ., [3]QBiC, RIKEN) °Siyu Zhang[1], Atsushi Kurisu[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Atsushi Suzuki[2], Kimiko Takebayashi-Suzuki[2], Sachiko Date[3], Tsutomu Masujima[1, 3]

3A-SP-1035 (3P-05)　☆Protein C-terminome analysis of *in vivo* protease cleavage products—Its application for Biomarker Discovery— ([1]Osaka Univ., [2]Miyazaki Univ.) °Seiji Iguchi[1], Koichi Imai[2], Nobuhiro Matsumoto[2], Masamitsu Nakazato[2], Toshifumi Takao[1]

3A-SP-1040 (3P-06)　☆Structural analysis of triacylgrycerols using MALDI-TOF-TOF tandem MS with high precursor-ion selectivity (JEOL) °Ayumi Kubo, Masahiro Hashimoto, Yoshiyuki Itoh, Jun Onodera

3A-SP-1045 (3P-07)　☆Live single-cell MS for monitoring specific molecules in phospholipidotic cells ([1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]QBiC, RIKEN) °Kiyoshi Takeshima[1], Sachiko Date[2], Hajime Mizuno[1], Naohiro Tuyama[1], Tsutomu Masujima[1, 2]

Luncheon Seminars (Presented by Thermo Fisher Scientific K.K.)

(12:10~13:10)

3A-L-1210　Introduction of new products: (1) Benchtop Quadrupole Orbitrap MS 'Q Exactive' and (2) High-Field Hybrid Orbitrap MS 'Orbitrap Elite' (Thermo Fisher) °Shigeru Sakamoto

Plenary Lectures 3 "Joint program with the Japanese Society for Biomedical Mass Spectrometry (JSBMS)"

(14:20~15:05) Chair: Ikuya Yano (Japan BCG Laboratry)

3A-PL-1420　Pathogenesis and therapeutic approaches in systemic amyloidosis (Shinshu Univ.) °Shuichi Ikeda

Plenary Lectures 4 "Joint program with the Japanese Society for Biomedical Mass Spectrometry (JSBMS)"

(15:05~15:50) Chair: Toshifumi Takao (Osaka Univ.)

3A-PL-1505　Past and future trends of biomedical applications: Measuring quality or quantity

Sep. 15, Thu.

（Osaka MCHRI）°Yoshinao Wada

Plenary Lectures 5 "Joint program with the Japanese Society for Biomedical Mass Spectrometry (JSBMS)"
（16：10～16：55）Chair: Toyofumi Nakanishi （Osaka Medical College）
3A-PL-1610　Imaging Mass Spectrometry: Current Performances and Upcoming Challenges （Univ. of Montreal）°Pierre Chaurand

Plenary Lectures 6 "Joint program with the Japanese Society for Biomedical Mass Spectrometry (JSBMS)"
（16：55～17：40）Chair: Shigeo Hayakawa （Osaka Pref. Univ.）
3A-PL-1655　Tandem Mass Spectrometry in Clinical Enzymology : Towards Newborn Screening of Lysosomal Storage Disorders （UW）°Frantisek Turecek, Michael Gelb, C. Ronald Scott

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

Room B （Izumi）

Oral Presentations
（9：00～10：00）Chair: Shinji Nonose （Yokohama City Univ.）
3B-O1-0900　Analysis of different conformaers of carbonic anhydrase 2 in solution using ion mobility coupled with electrospray ionization （[1]Yokohama City Univ., [2]Yokohama City Univ., [3]Nihon Waters, [4]Nihon Waters）°Mitsuo Takayama[1], Yoshiaki Nabuchi[2], Kenji Hirose[3], Motoji Oshikata[4]
3B-O1-0920　☆Ion mobility MS of glycopeptides from the Fc regions of different IgG subclasses （[1]Osaka MCHRI, [2]Nihon Waters, [3]Nara Women's Univ.）°Michiko Tajiri[1], Kenji Hirose[2], Takae Takeuchi[3], Yoshinao Wada[1]
3B-O1-0940　Characterization of cyclic small molecules by energy-resolved ion mobility mass spectrometry （RIKEN）°Yayoi Hongo, Yuko Izuchi, Syunya Takahashi, Takemichi Nakamura

Poster Short Presentations
（10：15～10：50）Chair: Shinji Nonose （Yokohama City Univ.）
3B-SP-1015
(3P-08)　☆Rapid Screening of Renal Cell Carcinoma （RCC）by Probe Electrospray Ionization Mass Spectrometry （[1]CERC, [2]Univ. Yamanashi, [3]Univ. Yamanashi）°Mridul Kanti Mandal[1], Kentaro Yoshimura[3], Lee Chuin Chen[2], Zhan Yu[1], Sen Takeda[3], Kenzo Hiraoka[1]
3B-SP-1020
(3P-09)　☆Effect of Small Matrix Molecules in Nano ESI （[1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]QBiC）°Megumi Wakimoto[1], Yui Okamura[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]
3B-SP-1025
(3P-10)　☆Improving Bioanalytical Selectivity in Differential Mobility Spectrometry—Mass Spectrometry Using Chemical Effects （AB SCIEX）°Shigeru Yamada, Ryoma Yamamoto
3B-SP-1030
(3P-11)　☆A New Approach for Finding Sweet Spots of Glycopeptides by Distinction of Polymorphism of Matrix Crystal in Matrix-Assisted Laser Desorption/Ionization （The Noguchi Institute）°Hisako Okumura, Takashi Nishikaze, Hiroshi Jinmei, Junko Amano

Sep. 15, Thu.

3B-SP-1035
(3P-12)
☆MALDI MS metabolite profiling by using nanoparticles of metal oxides and allotropes of carbon ([1]Ehime Univ., [2]Univ. of Buenos Aires, [3]Ehime Univ.) °Yousef Gholipour[1], Rosa Erra-Balsells[2], Hiroshi Nonami[3]

3B-SP-1040
(3P-13)
☆Direct Single Cell Analysis of Intracellular Drug Metabolism in a Primary Hepatocyte ([1]QBiC, RIKEN, [2]Hiroshima Univ., [3]ITO-EN, Ltd.) °Sachiko Date[1], Hajime Mizuno[2], Naohiro Tsuyama[2], Takanori Harada[2], Iwao Sakane[3], Tsutomu Masujima[1, 2]

3B-SP-1045
(3P-14)
☆Construction of metabolic profiling method for carotenoid derivatives using supercritical fluid chromatography coupled with tandem mass spectrometry ([1]Osaka Univ., [2]Kobe Univ.) °Atsuki Matsubara[1], Takato Uchikata[1], Masakazu Shinohara[2], Masaru Yoshida[2], Eiichiro Fukusaki[1], Takeshi Bamba[1]

Luncheon Seminars (Presented by Nihon Waters K.K.)
(12 : 10~13 : 10)

3B-L-1210
Unified System Accelerating Advanced Research—The Fusion of High Definition, High Sensitivity and Informatics (Nihon Waters) °Futoshi Sato

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

Room C (Ginga)

Oral Presentations
(9 : 00~10 : 00) Chair: Tomoya Kinumi (AIST)

3C-O1-0900
Development of Explosives Trace Detection System Using Cyclone-Type Particle Concentrator (Hitachi, Ltd.) °Yuichiro Hashimoto, Hisashi Nagano, Yasuaki Takada, Yasutaka Suzuki, Hideo Kashima, Masakazu Sugaya, Yasunori Doi, Koichi Terada, Minoru Sakairi

3C-O1-0920
☆Qualitative Analysis of Volatile Metabolites Emitted by *Aspergillus nidulans* Using Ion Mobility Spectrometry and Mass Spectrometry ([1]Nara Women's Univ., [2]Nara Women's Univ., [3]Toho Univ., [4]AIST) °Shoko Ichii[1], Toshiki Sugai[3], Tomoko Kimura[2], Haruna Tanaka[1], Sachiyo Kaneko[1], Masato Kiuchi[4], Takahito Suzuki[2], Takae Takeuchi[2, 4]

3C-O1-0940
☆Dependence of needle angle on negative ion formation in atmospheric pressure corona discharges (Yokohama City Univ.) °Kanako Sekimoto, Mitsuo Takayama

Poster Short Presentations
(10 : 15~10 : 45) Chair: Tomoya Kinumi (AIST)

3C-SP-1015
(3P-15)
☆Study of the matrix deposition method for mass microscope ([1]Shimadzu Corporation, [2]Hamamatsu University School of Medicine) °Kazuteru Takahashi[1], Takahiro Harada[1], Yumi Matsumoto[1], Hideaki Izumi[1], Kiyoshi Ogawa[1], Mitsutoshi Setou[2]

3C-SP-1020
(3P-16)
☆Super Atmospheric Pressure ($P > 1$ atm) Electrospray Ion Source (Univ. Yamanashi) °Lee Chuin Chen, Mridul Kanti Mandal, Kenzo Hiraoka

3C-SP-1025
(3P-17)
☆Heat-shock desorption/mass spectrometry ([1]Univ. Yamanashi, [2]Univ. Yamanashi CERC) °Dilshadbek Usmanov[2], Satoshi Ninomiya[1], Lee Chuin Chen[1], Kenzo Hiraoka[2]

3C-SP-1030
(3P-18)
☆Live Single-cell MS for real time molecular detection of a stimulated cell ([1]Hiroshima Univ., [2]QBiC, RIKEN) °Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

3C-SP-1035
(3P-19)
☆Determination of benzodiazepines by LC/MSMS with trigger-MRM ([1]Agilent, [2]Nippon Med. Sch., [3]MST) °Masahiko Takino[1], Makiko Hasashida[2], Chieko

Sep. 15, Thu.

Yoshizawa[3], Hiroko Abe[3]

3C-SP-1040
(3P-20)
☆Live Single-Cell Mass Spectrometry for Spatiotemporal Analysis of Bioactive Substances in a Plant (Radish Sprouts) ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]QBiC, RIKEN) °Shuichi Matsuda[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

Luncheon Seminars (Presented by Agilent Technologies Japan, Ltd.)
(12 : 10～13 : 10)

3C-L-1210
Comprehensive Native Glycan Profiling with Isomer Separation and Quantitation for the Discovery of Cancer Biomarkers (Chungnam Natl. Univ.) °Hyun Joo An

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

Poster Room (Gekko)

Core time (Odd numbers): 11 : 00～12 : 00
Core time (Even numbers): 13 : 15～14 : 15

The mark "☆" shows that the presenting author applied to the "Best Presentation Award".

3P-01
☆Evaluation of a novel database search algorithm using MSn spectra ([1]Shimadzu Corp., [2]Eisai) °Kentaro Morimoto[1], Masaki Murase[1], Tsuyoshi Tabata[2], Shigeki Kajihara[1], Ken Aoshima[2], Yoshiya Oda[2], Koichi Tanaka[1]

3P-02
☆Development of Algorithm Enabling Data-driven Determination of Elemental Composition based on Isotopic Peak Ratio Observed by Ultrahigh-resolution FT-ICR-MS ([1]Biores. Bioenv. Sci., Kyushu Univ., [2]ICMRN, Kyushu Univ., [3]Bioarc., Kyushu Univ., [4]Fac. of Agric., Kyushu Univ.) °Tatsuhiko Nagao[1], Daichi Yukihira[1], Yoshinori Fujimura[2], Daisuke Miura[2], Hiroyuki Wariishi[2, 3, 4]

3P-03
☆N-Terminal selective derivatization with a 4-amidinophenyl group to improve peptide fragmentation (Kyoto Univ.) °Toru Yoshikawa, Masahiro Miyashita, Hisashi Miyagawa

3P-04
☆Spatio-temporal Molecular Distribution in a Developing Frog (*Xenopus*) Egg by LC-MS ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]Grad. Sch. Sci., Hiroshima Univ., [3]QBiC, RIKEN) °Siyu Zhang[1], Atsushi Kurisu[1], Naohiro Tsuyama[1], Hajime Mizuno[1], Atsushi Suzuki[2], Kimiko Takebayashi-Suzuki[2], Sachiko Date[3], Tsutomu Masujima[1, 3]

3P-05
☆Protein C-terminome analysis of *in vivo* protease cleavage products—Its application for Biomarker Discovery— ([1]Osaka Univ., [2]Miyazaki Univ.) °Seiji Iguchi[1], Koichi Imai[2], Nobuhiro Matsumoto[2], Masamitsu Nakazato[2], Toshifumi Takao[1]

3P-06
☆Structural analysis of triacylgrycerols using MALDI-TOF-TOF tandem MS with high precursor-ion selectivity (JEOL) °Ayumi Kubo, Masahiro Hashimoto, Yoshiyuki Itoh, Jun Onodera

3P-07
☆Live single-cell MS for monitoring specific molecules in phospholipidotic cells ([1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]QBiC, RIKEN) °Kiyoshi Takeshima[1], Sachiko Date[2], Hajime Mizuno[1], Naohiro Tuyama[1], Tsutomu Masujima[1, 2]

3P-08
☆Rapid Screening of Renal Cell Carcinoma

(RCC) by Probe Electrospray Ionization Mass Spectrometry ([1]CERC, [2]Univ. Yamanashi, [3]Univ. Yamanashi) °Mridul Kanti Mandal[1], Kentaro Yoshimura[3], Lee Chuin Chen[2], Zhan Yu[1], Sen Takeda[3], Kenzo Hiraoka[1]

3P-09 ☆Effect of Small Matrix Molecules in Nano ESI ([1]Hiroshima Univ., Grad. Sch. Biomed. Sci., [2]QBiC) °Megumi Wakimoto[1], Yui Okamura[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

3P-10 ☆Improving Bioanalytical Selectivity in Differential Mobility Spectrometry—Mass Spectrometry Using Chemical Effects (AB SCIEX) °Shigeru Yamada, Ryoma Yamamoto

3P-11 ☆A New Approach for Finding Sweet Spots of Glycopeptides by Distinction of Polymorphism of Matrix Crystal in Matrix-Assisted Laser Desorption/Ionization (The Noguchi Institute) °Hisako Okumura, Takashi Nishikaze, Hiroshi Jinmei, Junko Amano

3P-12 ☆MALDI MS metabolite profiling by using nanoparticles of metal oxides and allotropes of carbon ([1]Ehime Univ., [2]Univ. of Buenos Aires, [3]Ehime Univ.) °Yousef Gholipour[1], Rosa Erra-Balsells[2], Hiroshi Nonami[3]

3P-13 ☆Direct Single Cell Analysis of Intracellular Drug Metabolism in a Primary Hepatocyte ([1]QBiC, RIKEN, [2]Hiroshima Univ., [3]ITO-EN. Ltd.) °Sachiko Date[1], Hajime Mizuno[2], Naohiro Tsuyama[2], Takanori Harada[2], Iwao Sakane[3], Tsutomu Masujima[1, 2]

3P-14 ☆Construction of metabolic profiling method for carotenoid derivatives using supercritical fluid chromatography coupled with tandem mass spectrometry ([1]Osaka Univ., [2]Kobe Univ.) °Atsuki Matsubara[1], Takato Uchikata[1], Masakazu Shinohara[2], Masaru Yoshida[2], Eiichiro Fukusaki[1], Takeshi Bamba[1]

3P-15 ☆Study of the matrix deposition method for mass microscope ([1]Shimadzu Corporation, [2]Hamamatsu University School of Medicine) °Kazuteru Takahashi[1], Takahiro Harada[1], Yumi Matsumoto[1], Hideaki Izumi[1], Kiyoshi Ogawa[1], Mitsutoshi Setou[2]

3P-16 ☆Super Atmospheric Pressure ($P>1$ atm) Electrospray Ion Source (Univ. Yamanashi) °Lee Chuin Chen, Mridul Kanti Mandal, Kenzo Hiraoka

3P-17 ☆Heat-shock desorption/mass spectrometry ([1]Univ. Yamanashi, [2]Univ. Yamanashi CERC) °Dilshadbek Usmanov[2], Satoshi Ninomiya[1], Lee Chuin Chen[1], Kenzo Hiraoka[2]

3P-18 ☆Live single-cell MS for real time molecular detection of a stimulated cell ([1]Hiroshima Univ., [2]QBiC, RIKEN) °Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

3P-19 ☆Determination of benzodiazepines by LC/MSMS with trigger-MRM ([1]Agilent, [2]Nippon Med. Sch., [3]MST) °Masahiko Takino[1], Makiko Hasashida[2], Chieko Yoshizawa[3], Hiroko Abe[3]

3P-20 ☆Live Single-Cell Mass Spectrometry for Spatiotemporal Analysis of Bioactive Substances in a Plant (Radish Sprouts) ([1]Grad. Sch. Biomed. Sci., Hiroshima Univ., [2]QBiC, RIKEN) °Shuichi Matsuda[1], Hajime Mizuno[1], Naohiro Tsuyama[1], Sachiko Date[2], Tsutomu Masujima[1, 2]

3P-21 Application of post-translational modification information in database search ([1]Shimadzu Corp., [2]Eisai Co., Ltd.) °Akiyasu Yoshizawa[1], Tsuyoshi Tabata[2], Takayuki Kimura[2], Ken Aoshima[2], Yoshiya Oda[2], Shigeki Kajihara[1], Koichi Tanaka[1]

3P-22 Software for discrimination of regions based on imaging mass spectrometry data ([1]Jpn. Fdn. Cancer Res., [2]Shimadzu Corp., [3]Kansai Med. Univ., [4]Hamamatsu Univ. Sch. Med., [5]Keio Univ.) °Masaru Ushijima[1], Shigeki Kajihara[2], Kurando Hosaka[3], Satoshi Miyata[1], Takahiro Hayasaka[4], Naoko Goto-Inoue[4], Noritaka Masaki[4], Akiko Yuba-Kubo[5], Masatoshi Wakui[5], Ikuko Yao[3], Kiyoshi Ogawa[2], Mitsutoshi Setou[4], Masaaki Matsuura[1]

3P-23 Tandem Mass Tags for Relative Quantification Using Higher Energy Dissociation on a (TFSKK) °Meiying Han, Daisuke Higo, Yoko Yamagishi, Shigeru Sakamoto

3P-24 Investigation of the function of microcystin-degrading bacterium (Part 1) ([1]Meijo Univ., [2]Meijo Univ., [3]Aichi Med. Univ., [4]Kanagawa Inst. Pub. Health) Miki Kurita[2], Atsushi Miyachi[2], Fumio Kondo[3], Kiyomi Tsuji[4], °Ken-ichi Harada[1, 2]

3P-25 (SWATH) A Method for Collecting MSMS of All Parent Ions in a Sample on an LC Time Scale ([1]K.K. AB SCIEX, [2]AB SCIEX Canada) °Takeshi Shibata[1], Takuichi Tsubata[1], Stephen Tate[2], Alexander Loboda[2], Igor Chernushevich[2]

3P-26 Estimation of HER2 *N*-glycosylation ratio using MALDI MS ([1]Kyoto Univ., [2]Shimadzu Corp.) °Kazuya Terasawa[1], Hiromasa Uchimura[1], Kaoru Kaneshiro[2], Makoto Watanabe[2], Kazuharu Shimizu[1], Gozoh Tsujimoto[1], Koichi Tanaka[2]

3P-27 Application of High-Resolution Mass Spectrometry to Metabolite Profiling of siRNA Duplex ([1]Takeda Pharmaceutical Company Limited,

[2]Shimadzu Corporation) °Hisao Shimizu[1], Fumi-hiro Jinno[1], Akio Morohashi[1], Yuzo Yamazaki[2], Masaki Yamada[2], Takahiro Kondo[1], Satoru Asahi[1]

3P-28 Study of the quantitative method for determination of drugs in Dried Blood Spots and Dried Plasma Spots. (JCL Bioassay) °Kawamura Masanori, Yumi Nishiguchi, Wato Yahata, Yasunobu Matsumoto, Ayumi Nitta, Hisami Murai

3P-29 Detection and Confirmation of the Metabolites of AZD6495 Using the Automated Collection of Simultaneous SRM and Full Scan LC/MS/MS ([1]Nihon Waters, [2]Astra Zeneca, [3]Waters) Noriko Kato[1], Rob Plumb[3], Paul Rainville[3], Joanne Mather[3], Ian Wilson[2], Ignatius Kass[3], °Motoji Oshikata[1], Yukari Haramaki[1]

3P-30 Screening and Identification with High Confidence Based on High Resolution and Accurate Mass LC-MS/MS (ABSciex) °Miho Tada, Toshiyuki Yamazaki, Kaoru Karasawa, Sumie Ando

3P-31 Automatic on-tissue digestion using ImagePrep ([1]Bruker Daltonics, [2]Bruker Daltonics, [3]Bruker Daltonics) °Toshiji Kudo[1], Yumiko Matsuyama[2], Takashi Nirasawa[3]

3P-32 Detailed Structural Analysis of Lipids Using On-Tissue High-Energy Collision-Induced Dissociation by MALDI-SpiralTOF-TOF ([1]Osaka Univ., [2]JEOL Ltd., [3]Osaka Univ.) °Shuichi Shimma[1], Ayumi Kubo[2], Takaya Satoh[2], Michisato Toyoda[3]

3P-33 MALDI MS analysis of O-glycan structures of a cell adhesion molecule, CADM1 ([1]Div. of Mol. Pathol., Inst. of Med. Sci., Univ. of Tokyo, [2]Med. Proteo. Lab., Inst. of Med. Sci., Univ. of Tokyo, [3]Shimadzu Corp.) Mika Sakurai-Yageta[1], °Tomoko Maruyama[1], Megumi Ishimura[1], Azusa Yanagawa[1], Masaaki Oyama[2], Hiroko Kondo[2], Sadanori Sekiya[3], Shinichi Iwamoto[3], Koichi Tanaka[3], Yoshinori Murakami[1]

3P-34 Evaluation of data-mining method for glycan profiles by liquid chromatography/mass spectrometry and principal component analysis ([1]Natl. Inst. Health Sci., [2]Hokkaido Univ.) °Noritaka Hashii[1], Akira Harazono[1], Ryosuke Kuribayashi[1], Shiori Nakazawa[1, 2], Nana Kawasaki[1, 2]

3P-35 Composition analysis for materials using comprehensive 2D LC (LCXLC)-MS and multivariate analysis technique ([1]Nissan Chemical Industries, Ltd., [2]Kansai Univ.) °Tomoyuki Ozawa[1], Shota Nakanishi[1], Hisae Miyamoto[1], Tatsuya Seki[1], Hirotaka Hisatomi[2], Hideya Kawasaki[2], Ryuichi Arakawa[2]

3P-36 Coulomb-Interaction-Induced Dephasing of Coherent Ion Cloud Motion for Xe Isotopic Ions in FT-ICR Cells : A Many-Particle Simulation Using GRAPE (Hiroshima City Univ.) °Makoto Fujiwara, Naohisa Happo, Koichi Tanaka

3P-37 Comparison of Oral-Drug Concentrations in Human Saliva and Serum ([1]CRL, Hitachi, Ltd., [2]Hitachi Yokohama Hospital) °Yukiko Hirabayashi[1], Yukari Yamamoto[1], Takashi Shinagawa[2], Joji Suzuki[2], Toshio Kaji[2]

3P-38 Ionization of amino acid and the formation of its hydrated ions under atmospheric pressure conditions (Yokohama City Univ.) °Mami Sakai, Kanako Sekimoto, Mitsuo Takayama

3P-39 High resolution mass spectrometry of solid samples with a direct probe ionization ([1]Bruker Daltonics KK, [2]Bruker Daltonics KK, [3]Bruker Daltonics KK, [4]Bruker Daltonics KK, [5]Bruker Daltonics KK) °Haruo Hosoda[1], Jouji Seta[2], Noriyuki Iwasaki[3], Takashi Nirasawa[4], Kazunori Saito[5]

3P-40 Highly sensitive MALDI analyses of phosphorylated peptides using an optimized liquid matrix 3-AQ/CHCA (Shimadzu Corp.) °Yuko Fukuyama, Kohei Takeyama, Shinichi Iwamoto, Koichi Tanaka

3P-41 Basic examination of the photoionization method in GC/MS—Comparison of mass spectra of EI, FI and PI— (JEOL) Tetsuo Higuchi, Kazuaki Murayama, °Keisuke Ishii, Yukinori Yahata

3P-42 ^{15}N-D-Labeled ionic probes for mass spectrometry (Faculty of Pharmaceutical Sciences at Kagawa Campus, Tokushima Bunri University) °Fumihiro Ito, Shin Ando, Masato Iuchi, Taki Ukari, Momoka Takasaki, Kentaro Yamaguchi

3P-43 Chemiluminescence of Products from N-Containig Compounds with Hydrogen Peroxide and the Product Ion by CID ([1]OMTRI, [2]Kinki Univ., [3]Tottori Univ., [4]Chemco Sci. Co., Ltd., [5]ATTO Co.) Osamu Nozaki[2], °Motohiro Shizuma[1], Hiroko Kawamoto[3], Motonori Munesue[4], Hidehiro Kubota[5], Tadasu Ikeda[3]

3P-44 Studies on compounds responsive to tyrosine in cigarette smoke extract ([1]Mukogawa Women's Univ., [2]Osaka City Institute of Public Health and Environmental Science, [3]Kansai Univ., [4]Yokohama City Univ.) °Shizuyo Horiyama[1], Chie Honda[1], Kiyoko Suwa[1], Kiyoharu Nishide[1], Yuta Takahashi[1], Kazuki Nakamura[1], Masaru Kunitomo[1], Atushi Yamamoto[2], Hirotaka Hisatomi[3], Hideya Kawasaki[3], Ryuichi Arakawa[3],

Mitsuo Takayama[4]

3P-45　High throughput analysis of anion surfactant using ultra-high speed LC-MS/MS and 1 mm inside diameter column ([1]Shimadzu, [2]Imtakt) Keiko Matsumoto[1], °Jun Watanabe[1], Manabu Yukiyama[1], Junko Iida[1], Itaru Yazawa[2]

3P-46　Two-Dimensional Liquid Chromatography Coupled with High-Resolution Mass Spectrometry for the Analysis of Perfluoroalkyl Compounds ([1]Osaka City Inst. Pub. Health Environ. Sci., [2]Kansai Univ., [3]Nippon Dionex, [4]Hyogo Pref. Inst. Environ. Sci.) °Atsushi Yamamoto[1], Hirotaka Hisatomi[2], Yoshinari Yamoto[2], Mikiya Kitagawa[3], Toru Yasuhara[3], Shusuke Takemine[4], Hideya Kawasaki[2], Ryuichi Arakawa[2]

3P-47　Widely-targeted metabolic profiling analysis of anionic metabolites using LC-QqQ-MS ([1]Kobe Univ., [2]Kobe Univ.) °Fumio Matsuda[1], Akihiko Kondo[2]

3P-48　Direct Analysis of Polymer Materials by DART-MS Using Temperature Rising System ([1]Shiseido Co., Ltd, [2]Bio Chromato, Inc., [3]Univ. of Yamanashi) °Haruo Shimada[1], Tokimasa Kawanishi[1], Yoshimasa Nakatani[1], Yuka Noritake[1], Rakan Matsui[1], Kazumasa Kinoshita[2], Yasuo Shida[3]

3P-49　Simulation of ion trajectories in a linear ion trap with plate electrodes inserted between rod electrodes ([1]Osaka Univ., [2]Osaka Univ., [3]MSI TOKYO, [4]Osaka Univ .) °Hiroki Andoh[1], Masanobu Nakazono[2], Shinichi Miki[3], Michisato Toyoda[4]

3P-50　Dual wire linear ion trap for analyzing large populations of ions (Hitachi, Ltd.) °Sugiyama Masuyuki, Hideki Hasegawa, Yuichiro Hashimoto

3P-51　Differentiating Carbohydrate Positional and Structural Isomers by Ion Mobility Mass Spectrometry ([1]Nihon Waters K.K., [2]Waters Corp.) °Kenji Hirose[1], Taiji Kawase[1], Weibin Chen[2], Ying-Qing Yu[2], Asish Chakraborty[2], Henry Shion[2], St. John Skilton[2]