Program

1st Day (Wed., June 2, 2004)

Conference room 1

Symposium: Isotopes for Prosperous Future

(9 : 30～11 : 30)

Organizer: Tsuneo Matsui & Tsuyoshi Tanaka

Chairperson: Tsuneo Matsui

1-S1-01 Perspective of 21st Century COE Program "Isotope Science from Basics to Applications" ([1]Nagoya Univ.) °Ichirou Yamamoto[1], Satoru Tsushima[1], Youichi Enokida[1], Kayo Sawada[1], Takehiko Minamikawa[1]

1-S1-02 Advanced isotope measurement with laser spectroscopy and its application (Grad.Sch.Eng., Nagoya Univ.) °Tetsuo Iguchi, Kenichi Watanabe, Hideo Tomita

1-S1-03 Isotope Effects on Physical Properties of Functional Materials and Creation of Isotopically Controlled Materials ([1]Graduate School of Engineering, Nagoya Univ., [2]CIRSE. Nagoya Univ., [3]RCNMR. Nagoya Univ.) °Tsuneo Matsui[1], Tadamasa Nagasaki[2], Yuji Arita[3], Junji Yuhara[1]

Chairperson: Tsuyoshi Tanaka

1-S1-04 Isotope clues COE project "Dynamics of the Sun-Earth-Life Interactive System" (Dep. Earth Environmental Sci., Nagoya Univ.) Eiji Matsumoto

1-S1-05 Development for Precise Isotopic Analysis of Trace Elements by ICP-Mass Spectrometer (Dept. Earth and Planet. Sci., Tokyo Tech.) °Takafumi Hirata

1-S1-06 Formation and evolution of hydrous planetesimals in the early solar system ([1]Dep. EPS, Kyushu Univ., [2]Fac. Sci, Tokyo Univ.)° Tomoki Nakamura[1], Ryuuji Okazaki[1], Keisuke Nagao[2], Nobuo Takaoka[1]

Luncheon seminar

(12 : 10～13 : 10)

1-L1-01 Bottom-Up and Top-Down Proteomics and Metabolomics for Mass Spectrometry (Bruker Daltonics) Daisuke Higo

Conference room 2

Oral presentation

(Saccharides, Protein complexes, Bioorganic analysis)

(9 : 30～11 : 30) Chairperson: Takeshi Kasama

1-O2-01 Mass spectrometric fragmentations of sugars in relation to their stereochemistry ([1]Univ. Electro-Comm., [2]Thermoelectron, [3]Kanagawa Univ.) °Yoko Ohashi[1], Yoshiyuki Itoh[1], Masayuki Kubota[2], Mitsuhiro Nakamura[1], Mamoru Ohashi[3], Haruki Niwa[1]

1-O2-02 MS/MS analysis of oligosaccharides isotopically labeled at the non-reducing end of a selected antenna ([1]Grad.Sch.Pharm.Sci., Nagoya City Univ., [2]MS Res. Lab., Shimadzu corp.) °Koichi Kato[1], Yoshiki Yamaguchi[1], Noriko Takahashi[1], Mamiko Nishimura[1], Shinichi Iwamoto[2], Sadanori Sekiya[2], Koichi Tanaka[2]

1-O2-03 On-Chip Derivatization of Sugars for High-Sensitivity Detection using Microchip-ESIMS. Part-I ([1]MCPT, [2]Univ. of Tokyo)° Yutaka Takahashi[1], Ryo Sakai[1], Yoshikazu Yoshida[1], Takehiko Kitamori[2]

Chairperson: Koichi Kato

1-O2-04 Mass spectrometry of general transcription factor TFIIE ([1]Grad. Sch. Integr. Sci. Yokohama City Univ., [2]Kihara Inst. Biol. Res., [3]Osaka Univ.)° Yoshiyuki Itoh[1], Aritaka Nagadoi[1], Masahiko Okuda[2], Yoshiaki Ohkuma[3], Yoshifumi Nishimura[1], Satoko Akashi[1]

1-O2-05 Determination of 8 catechins in human plasma using liquid chromatography combined electrospray mass spectrometry (Kao Co.Tochigi Laboratory) °Yuji Matsui, Namii Shimizu, Hidenori Endo, Michiya Kuzukawa, Yoshinori Masukawa, Tadashi Hase

1-O2-06 High Sensitive Ion Exclusion Liquid Chromatography/Mass Spectrometric Analysis of Low Molecule Organic Acids ([1]Fac. Edu. Kochi Univ., [2]Shinwa Chem. Ind.) °Keiji Gamoh[1], Hiroki Saitoh[1], Hiroo Wada[2], Katsumi Hishida[2]

1st Day (Wed., June 2, 2004)

Hall

Workshop: FT-ICR MS: Instrumentation, Application, and Allied Studies

(9 : 30～11 : 30) Organizer: Yasuhide Naito
Chairperson: Yasuhide Naito

1-W3-01 FT-ICR Study of Generation and Reaction of Metal-Carbon Binary Clusters
(Univ. of Tokyo)°Shigeo Maruyama, Shuhei Inoue, Satoshi Yoshinaga

1-W3-02 "Stable" clusters produced in FTICR MS
(Nanotech. Res. Inst., AIST) Koichi Sugawara

1-W3-03 Many-particle Simulation of Ion Motion and Spectra in FT-ICR Mass Spectrometry
(Fac. Information Sci., Hiroshima City Univ.) Makoto Fujiwara

1-W3-04 Instrumentation of External Ion Sources and an Ion Transport Optics for FT-ICR MS
(iFEL, Osaka Univ.) Yasuhide Naito

General meeting of the Mass Spectrometry Society of Japan

(11 : 30～12 : 00)

Award lectures

(13 : 30～14 : 30) Chairperson: Ryohei Yamaoka

1-A3-01 [MSSJ AWARD for Distinguished Contribution in MS] Primitive Xe in the early solar system
(Kyushu Univ.) Nobuo Takaoka

1-A3-02 [MSSJ RESEARCH AWARD] Application Research for Usefulness of NanoESI and Studies on Unimolecular Metastable Decomposition of Organic Ions using MIKE Spectrometry
(JEOL) Yutaka Takahashi

Special Lecture

(15 : 00～16 : 00) Chairperson: Toshihide Nishimura

1-SL3-01 Advances in Mass Spectrometry for Comprehensive, Quantitative and High Throughput Proteomics
(Pacif. NW Natl. Lab.) Richard D. Smith

Display room

Poster presentation

(16 : 00～17 : 00)
Poster display 9 : 30～
Pull down 17 : 00

1-P-01 Improvement of the focal plane detector for the miniature double focusing Mass Spectrograph and performance evaluation
([1]Dep. Phys. Osaka Univ., [2]JAXA, [3]Dep. Earth and Planet. Hokkaido Univ)
°Masaru Nishiguchi[1], Kouhei Ueda[1], Michisato Toyoda[1], Morio Ishihara[1], Makiko Ohtake[2], Takamitsu Sugihara[3], Itsuo Katakuse[1]

1-P-02 Development of a High Sensitivity Gas Chromatograph Mass Spectrograph II
([1]Dep. Phys, Osaka Univ, [2]CREST)
°Takeo Inaba[1], Masaru Nisiguchi[1], Hiroki Sakae[2], Michisato Toyoda[1], Toshio Ichihara[1], Morio Ishihara[1], Itsuo Katakuse[1]

1-P-03 GC-TOFMS with newly designed ion transfer optics
(JEOL) °Takaya Satoh, Masaaki Ubukata, Yoshihisa Ueda, Kazuo Tanaka, Jun Tamura

1-P-04 Development and Applications of AP-MALDI-oaTOFMS.
(JEOL Ltd.) °Tetsuichiro Morita, Kenji Nagatomo, Jun Tamura

1-P-05 Development of IRMPD Spectrum Measurement System Using FTMS-FEL-SUT
([1]CBRC, AIST, [2]Cyber Laser)
°Kaoru Mogushi[1], Yasutoshi Takada[2], Kazuhiko Fukui[1], Katsutoshi Takahashi[1]

1-P-06 Mid-IR wavelength tunable LASER for IR-MALDI
([1]Cyber laser Inc., [2]CBRC, AIST)
°Yasutoshi Takada[1], Kazuhiko Fukui[2], Tetsumi Sumiyoshi[1], Katsutoshi Takahashi[2]

1-P-07 Precise Mass Measurement of Unstable Nuclei Using a Multi-Reflection Time-of-Flight Mass Spectrometer
([1]RIKEN, [2]Univ. Giessen)
°Yoshihisa Ishida[1], Michiharu Wada[1], Yukari Matsuo[1], Hermann Wollnik[2]

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1-P-08 Fragment-Free Measurements of Molecules in Gas Phase by Time of Flight Analysis Combined with Ion Attachment Technique (Dept. of Phys. Toho Univ.) °Yasuhiro Sakai, Tomoko Yuzuriha

1-P-09 Instrumental characteristics of Ion Attached Mass Spectrometry —from many organic compounds— (ANELVA Technix Co.) °Masako Inoue, Harumi Maruyama, Yoshiro Shiokawa

1-P-10 Impurity Analysis of dialkylphthalates by IAMS (Ion Attachment Mass Spectrometry) ([1]AIST, [2]Anelva Technix Co.) °Keiichiro Ishikawa[1], Katsuhiko Higudhi[1], Shinnu Bao[1], Satoko Otsuka[1], Akira Nomura[1], Tsuneaki Maeda[1], Harumi Maruyama[2], Masako Inoue[2], Yoshiro Shiokawa[2], Toshihiro Fujii[2]

1-P-11 The new attempt to date the fault activity using ^{87}Rb-^{87}Sr and ^{40}K-^{40}Ar isotope system for pseudotachylyte ([1]Dept. Earth Environmental Sci., Nagoya Univ., [2]Dept.Earth Sci., Waseda Univ., [3]Labo. Earthquake Chem., Univ. of Tokyo)Akifumi Umemoto[1], °Tsuyoshi Tanaka[1], Yoshihiro Asahara[1], Masayo Minami[1], Hideo Takagi[2], Keisuke Nagao[3]

1-P-12 Carbon and nitrogen isotope fractionations of bone collagens by chemical treatment (Grad. School of Environ. Studies, Nagoya Univ.) Masayo Minami

1-P-13 Radiogenic isotope in north Pacific sediment: Temporal variation in flux of the eolian dust from the Asian continent (Grad. School of Environ. Studies, Nagoya Univ.) Yoshihiro Asahara

1-P-14 The eveolution of early solar system from the SIMS in-situ ^{26}Al-^{26}Mg isotopic analyses ([1]AIST, [2]Tokyo Univ.) °Noriko Kita[1], Erika Kurahashi[2], Shogo Tachibana[2], Shin Tomomura[2], Hiroko Nagahara[2], Yuichi Morishita[1]

1-P-15 Development of the noble gas mass spectrometric system for I-Xe and Ar-Ar dating ([1]Lab. Earthquake Chem., Univ. Tokyo, [2]Dep. Earth & Planet. Sci., Kyushu Univ., [3]Kantogakuen Univ., [4]Earthquake Res. Inst., Univ. Tokyo) °Noriko Ebisawa[1], Hirochika Sumino[1], Ryuji Okazaki[2], Keisuke Nagao[1], Yutaka Takigami[3], Ichiro Kaneoka[4]

1-P-16 Determination of atomic weight with ICP-MS ([1]JAMSTEC, IFREE, [2]Dept. Earth & Planet, Tokyo Tech.) °Masaharu Tanimizu[1], Takafumi Hirata[2]

1-P-17 Certification of Isotopic Reference Materials at the EC Joint Research Laboratory, The Institute for Reference Materials and Measurements (EC-JRC-IRMM) Roger Wellum

1-P-18 Characterization of Acrylic Resin by MALDI-PSD and MS/MS analyses ([1]Dep. Eng, Kansai Univ., [2]JST, [3]Inst. Maternal Child Health, [4]Dep. Eng. Sci, Osaka Univ)°Ryuichi Arakawa[1], Youhei Okuyama[1], Shouji Okuno[2], Yoshinao Wada[3], Kouichi Ute[4]

1-P-19 Structual Analysis of Acid and Amine A dducts of Epoxy Resin ([1]Dep. Eng, Kansai Univ., [2]JST, [3]Osaka Univ.)°Hidemi Morikawa[1], Syouji Okuno[2], Masanori Ohtubo[3], Motohiro Nakano[3], Genetsu Matsubayasi[3], Ryuuiti Arakawa[1]

1-P-20 Influence of sample preparation method on UV-MALDI-TOF-MS experiments ([1]Fac. Agr., Ehime Univ., [2]DQO, FCEN, UBA) °Yasuto Sato[1], Maria Ponce[2], Olga Tarzi[2], Rosa Erra-Balsells[2], Hiorshi Nonami[1]

1-P-21 Characterization of Network Structure of UV-Cured Resins by MALDI-MS Combined with Supercritical Methanolysis ([1]Nagoya Univ., [2]Aichi Indust. Tech. Inst., [3]Sumitomo Chemical)°Hajime Ohtani[1], Yosuke Kondo[1], Yasuyuki Ishida[1], Kuniyuki Kitagawa[1], Hideki Matsubara[2], Hiroshi Takigawa[3]

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1-P-22 Proteomics analysis of H_2O_2-resistant Chinese hamster V79 cells
([1]Dep.nutrition and environment sci, Shizuoka Univ, [2]Dep.nutrition and environment sci Shizuoka Univ)
°Masaya Sano[1], Manami Kato[1], Hirotaka Naito[2], Norio Ohashi[2], Kayoko Shimoi[1], Shigenori Kumazawa[1], Tutomu Nakayama[1]

1-P-23 Redox proteomics: identification of oxidatively modified proteins induced by an endogenous electrophile
([1]Grad. Sch. of Bioagric. Sci., Nagoya Univ., [2]Dep. of Food & Nut. Sci, Univ. of Shizuoka)°Takeshi Ishii[1], Toyo Sakurai[1], Shigenori Kumazawa[2], Tsutomu Nakayama[2], Toshihiko Osawa[1], Koji Uchida[1]

1-P-24 Influence of antioxidants against oxidative stress on plant cells Proteomic approach for oxidative cellular response
(Hiroshima Univ.) °Shunsuke Izumi, Misao Matsuoka, Toshifumi Hirata

1-P-25 An approach to quantitative proteome analysis by labeling tryptophan residues
([1]Life Science Lab. Shimadzu Corp., [2]Koichi Tanaka Mass Spectrometry Research Laboratory)°Hiroki Kuyama[1], Makoto Watanabe[1], Chikako Toda[1], Eiichi Matsuo[1], Eiji Ando[1], Koichi Tanaka[2], Osamu Nishimura[1]

1-P-26 Study on proteomics for human plasma (2) off-line2D-μLC/NSI-MS/MS system
([1]Clinical Proteome Center, Tokyo Medical Univ., [2]AMR Inc., [3]Dept. Human Genetics, Mt. Sinai School of Med.) Kiyonaga Fujii[1], Tomoyo Nakano[2], °Takeshi Kawamura[1], Fumihiko Usui[2], Yasuhiko Bando[2], Rong Wang[3], Toshihide Nishimura[1]

1-P-27 Study on proteomics for human plasma (3) on-line2D-μLC/NSI-MS/MS system
([1]Clinical Proteome Center, Tokyo Medical Univ., [2]AMR Inc.) Kiyonaga Fujii[1], Tomoyo Nakano[2], Fumihiko Usui[2], Yasuhiko Bando[2], °Toshihide Nishimura[1]

1-P-28 High-speed protein profiling system for clinical proteomics
([1]Clinical Proteome Center, Tokyo Medical Univ., [2]AMR Inc.) Kiyonaga Fujii[1], °Tomoyo Nakano[2], Fumihiko Usui[2], Yasuhiko Bando[2], Toshihide Nishimura[1]

1-P-29 Investigation of microcystin binding proteins in mouse liver
(Gradu. Environ. Human Sci., Meijo Univ.) °Susumu Imanishi, Kenichi Harada

1-P-30 Characterization of lactic acid bacteria by whole cell MALDI-MS
([1]AIST, [2]IRC Ehime Pref.)
°Masaki Torimura[1], Liwei Sun[1], Hiroaki Sato[1], Hiroaki Tao[1], Tomoyoshi Shintani[2]

1-P-31 Detection of Insulin/IGFI receptor interacting proteins using a mammalian TAP Expression System
(International medical center of Japan)
°Xunmei Yuan, Yuko Fujiwara, Ryo Yamashita, Kazuki Yasuda, Yasushi Kaburagi

1-P-32 Proteomic analysis of insulin-induced phosphorylated proteins in HepG2 cells
(Res. Inst. Inter. Med. Ctr. Jpn., Dept. Metabol) °Ryo Yamashita, Yuko Fujiwara, Kazuki Yasuda, Yasushi Kaburagi

1-P-33 Relationship between ionization flux and physico-chemical nature of amino acids
(Integ.Sci, Yokohama City Univ.)
°Takashi Nishikaze, Mitsuo Takayama

1-P-34 UV Laser Desorption/Ionization on Submicrometer Order Structures
([1]JST, [2]Kansai Univ., [3]Osaka Medical Center and Research Institute for Maternal and Child Health)°Shoji Okuno[1], Ryuichi Arakawa[2], Yoshinao Wada[3]

1-P-35 Oxidation of ferrocene derivatives in Desorption/Ionization on Porous Silicon
([1]JST, [2]Kansai Univ., [3]Osaka Medical Center and Research Institute for Maternal and Child Health)°Shoji Okuno[1], Kunihiko Oka[2], Yoshinao Wada[3], Ryuichi Arakawa[2]

1-P-36 Analytical method for ubiquinones (Q9 and Q10) in rat tissues by LC/MS/MS with 1-alkylamine as an additive to the mobile phase
(Takeda Chemical Industries)
°Koichiro Teshima, Takahiro Kondo

1st Day (Wed., June 2, 2004)

1-P-37 The establishment of High Throughput ADME Assay system with Liquid hander workstation system and HT-LCMS

([1]Cemistry Research Dep. II, Kamakura Research Labs., Chugai Pharmaceutical, [2]Yokogawa Analytical Systems Inc., [3]Beckman Coulter K.K., Biomedical Research)°Kiyosi Yosinari[1], Noboru Nakayama[1], Nobuo Shimma[1], Hirokazu Sawada[2], Hiromasa Kashimori[3]

1-P-38 Exact Mass Measurement and Quantitative Analysis on LC-oa-TOFMS

([1]Nihon Waters, [2]Waters) °Michiko Kanai[1], Hideki Sasaki[1], Futoshi Sato[1], Jose Castro-Perez[2], Mike Mccullagh[2]

1-P-39 Tracing the oxidative reaction of hydroxylamines using LC/MS (3)

([1]Faculty Pharm. Sciences, Mukogawa Women's Univ., [2]Graduate School of Sciences, Yokohama City Unv., [3]National Food Research Institute) °Shizuyo Horiyama[1], Kiyoko Suwa[1], Hiromi Kataoka[1], Junichi Kunitomo[1], Mitsuo Takayama[2], Mayumi kameyama[3]

1-P-40 [MSSJ RESEARCH AWARD] Studies on chiral recognition of carbohydrate derivatives using mass spectrometry

(Osaka Municipal Techn. Res. Inst.) Motohiro Shizuma

2nd Day (Wed., June 3, 2004)

Conference room 1

Symposium: Exploring New Substances Using Mass Spectroscopy

(9 : 00～11 : 00) Organizer: Toshiki Sugai
Chairperson: Toshiki Sugai

2-S1-01 Isolation and structural characterization of magic-numbered gold clusters
(Inst. Mol. Sci.)
Yuichi Negishi, ○Tatsuya Tsukuda

2-S1-02 Measurement and Application of Ions and Nanoparticles Generated by Electrospray
(Chem. Eng. Dept., Hiroshima Univ.)
○Kikuo Okuyama, Wuled Lenggoro

2-S1-03 Creation of Opto-magneto Materials with Size-selective Soft-landing Deposition
(Dep. Chem. Keio Univ.)
Atsushi Nakajima

2-S1-04 Reaction of Metal Catalysts of SWNTs with Alcohol by FT-ICR
(Univ. of Tokyo)○Shigeo Maruyama, Shuhei Inoue, Satoshi Yoshinaga

2-S1-05 Production Analyses on Pulsed Arc Discharge by Ion Mobility
([1]RCMS, Nagoya University, [2]Indiana State Univ., [3]Nagoya Univ., CREST/JST)
○Toshiki Sugai[1], Jarrold Martin[2], Hisanori Shinohara[3]

Luncheon seminar

(12 : 10～13 : 10)

2-L1-01 Optimum multi-dimensional LC-MS/MS system using a new precolumn "Nano-trap"
(AMR) ○Takehiro Nozawa, Fumihiko Usui, Yasuhiko Bando

2-L1-02 The advantage of high performance linear ion-trap MS LTQ and hybrid FT-ICRMS LTQ FT on high-throughput proteomics application (Thermo Electron)
○Masayuki Kubota, Junko Kimata, Shigeru Sakamoto

Conference room 2

Oral presentation

(Environment, Microanalysis)

(9 : 00～11 : 00) Chairperson: Kozo Matsumoto

2-O2-01 Uranium Isotopic Mass Ratio Measurement in Environmental Samples by Q-ICP-MS ([1]Environ. Toxicol. Sci. Res. Grp., Natl. Inst. Radiol. Sci., [2]Res. C. Radiat. Safety, Natl. Inst. Radiol. Sci.)
○Keiko Tagami[1], Shigeo Uchida[2], Satoshi Yoshida[1]

2-O2-02 The study on the distribution of silica species according to the depth in Tokyo bay
([1]Tokyo Univ. of Marine Science and Technology, [2]Riken)○Miho Tanaka[1], Kazuya Takahashi[2], Masao Nemoto[1], Hideki Nagashima[1]

2-O2-03 Application of reaction cell ICP-MS for the determination of trace elements in plant samples ([1]Natl. Inst. Radiol. Sci., [2]TNS)
Keiko Tagami[1], ○Ikuko Hirai[2], Shigeo Uchida[1]
Chairperson: Yoshitomo Ikai

2-O2-04 Multiresidue analysis of pesticides listed in the drinking water regulation using LC/MS/MS
(Nihon Waters)○Futoshi Sato, Hideki Sasaki, Hiroyasu Yamamoto

2-O2-05 On-line Monitoring of Polychlorinated Biphenyls using laser ionization/dynamic trapping TOFMS Method
(MHI) ○Shinsaku Dobashi, Yoshihiro Deguchi, Masaharu Kira, Ryuichiro Tanaka, Yoshinori Izawa

2-O2-06 Development of a High Sensitive Photon Accumulated Laser Mass Spectrometer (RIMMPA-TOFMS) and PCDD/DF Detection (IDX Corporation)
○Naotoshi Kirihara, Kenji Takahashi, Norihumi Kitada, Haruaki Yoshida, Mizuho Tanaka, Yasuo Suzuki

2nd Day (Wed., June 3, 2004)

Hall

Workshop: Present and Future of Tandem Mass Spectrometry

(9 : 00～11 : 00) Organizer: Kimio Isa
Chairperson: Kimio Isa & Hiroshi Yamaoka

2-W3-01 Opening Remarks and Issues of MS/MS and Integrated Discussion
(Fac.of Edu., Univ. Fukui) Kimio Isa

2-W3-02 A Brief History of Tandem Mass Spectrometry
(Nihon Pharm. Univ.) Takeshi Kinoshita

2-W3-03 Isomer Characterization on the Competitive Channels in Electron Ionized Unimolecular Dissociation during Metastable Time Window Using Double Reversed Geometry (BEBE) Four Sector Tandem Mass Spectrometer
(Fac. Sci., Osaka Women's Univ.) Hiroshi Yamaoka

2-W3-04 Difference between collisionally activated dissociation (CAD) and dissociation induced by electron transfer.
(Coll.Integr.Arts & Sci., Osaka Pref.Univ.) Shigeo Hayakawa

2-W3-05 Mechanism of Electron Capture Dissociation (ECD) of Multiply Charged Peptide Cations
(Aichi Kyoiku University) Hideyuki Konishi

2-W3-06 Fragmentation of even-electron ions in biomolecular characterization: views through time windows
(Biomol. Characterization, Riken) Takemichi Nakamura

2-W3-07 Dissociation of large biological molecules in mass spectrometer. —Present and Future of Topdown Proteomics—
(Inst. of Life Sciences, Ajinomoto Co., Inc.) Naoyuki Yamada

Special Lecture

(11 : 00～12 : 00) Chairperson: Hideyuki Konishi

2-SL3-01 Characterizing Proteins and Other Biomolecules by Mass Spectrometry
(Cornell Univ.) Fred W. MacLafferty

Special Symposium lectures

(13 : 15～16 : 00) Chairperson: Ken-ichi Harada

2-SS3-01 The development of instruments and technologies for DNA analysis —Human genome project and the spreading bioscience field—
(Hitachi, Ltd.) Hideki Kanbara

2-SS3-02 Modern Characterization of nano-carbon materials
(Fac. Sci. Tech., Meijo Univ.) Sumio Iijima

2-SS3-03 Nitride Semiconductors and Blue Light-Emittng Devices —Evolution and Prospect— (Fac. Sci. Tech., Meijo Univ.) Isamu Akasaki

2nd Day (Wed., June 3, 2004)

Display room

Poster presentation
(16 : 00～17 : 00)
Poster display 9 : 00～
Pull down 17 : 00

2-P-01 Dissociation Mechanisms of Excited CH_n(n＝3～5) Neutrals Using Charge Inversion Mass Spectrometry
(Coll. Integr. Arts Sci., Osaka Pref. Univ.) Shigeo Hayakawa, °Nobutake Kabuki

2-P-02 Determination of the protonation site in ortho-chlorophenol using collision activated dissociation and charge inversion mass spectrometry
([1]Coll. Integr. Arts. Sci., Osaka Pref. Univ., [2]JEOL Ltd.) °Yoshiaki Kawamura[1], Shigeo Hayakawa[1], Yutaka Takahashi[2]

2-P-03 Dissociation mechanisms of excited neutral methyl stearate and its hydrogen atom adduct
(Coll. Integr. Arts Sci., Osaka Pref. Univ.) °Akihiro Kitaguchi, Shigeo Hayakawa

2-P-04 Study of LC/TOF-MS for the determination of trace compounds
([1]YAN, [2]Dep.App. Chem. Gradu. Sch. Engin. Osaka Pref. Univ.) °Takino Masahiko[1], Nakahara Taketoshi[2]

2-P-05 Identification of Oxidation Numbers of Inorganic Species by MALDI/MS
([1]Dep. Appied Chem. Nagoya Univ., [2]HighEne. Conv. Cent., Nagoya Univ.) °Kozo Matsumoto[1], Kuniyuki Kitagawa[2], Aritaka Matsunami[2]

2-P-06 Quantitative/Qualitative Analysis by Q/Linear Ion Trap hybrid mass spectrometer (1)
(Takara Bio Inc.) °Yoshifumi Kogure, Yasutoshi Kawase, Jun Watanabe

2-P-07 Quantitative/Qualitative Analysis by Q/Linear Trap hybrid mass spectrometer (2)
(Takara Bio Inc.) °Yasutoshi Kawase, Jun Watanabe, Yoshifumi Kogure

2-P-08 Evaluation of Molecular Weight Distribution of Synthetic Polymers for DIOS-MS
([1]AIST) °Teruyuki Seino[1], Hiroaki Sato[1], Masaki Torimura[1], Kazue Simada[1], Atsushi Yamamoto[1], Hiroaki Tao[1]

2-P-09 Analysis of Persistent Organochlorine Pesticides in Human Blood by GC/TOF-MS
(Otsuka Pharmaceutical Co, Ltd.,) °Yoshinori Fujimine, Ayumi Mochizuki, Tetsuya Hirai, Shunkichi Watanabe

2-P-10 Simplified analysis of dioxins by thermal desorption GC/MS
(AIST) °Hiroaki Sato, Hiroaki Tao

2-P-11 Study on binding of perfluorinated compounds to serum proteins using LC-MS/MS
(Dep. Eng, Kansai Univ.) °Hiroshi Kitagawa, Yasuo Mizooko, Ryuichi Arakawa

2-P-12 The direct measurement of the phthalate group by IAMS (Ion Attachment Mass Spectrometry)
(ANELVA Technix Co.) °Masako Inoue, Harumi Maruyama, Yosiro Shiokawa

2-P-13 Analysis of inorganic anions in water by ion chromatography with electrospray ionization mass spectrometry
(Sankio Chemical Co., Ltd.) °Sachiki Shimizu

2-P-14 Factors on Affecting Formation of Molecular Weight Relation Ions from Peroxy Acid Esters under Atmospheric Pressure
(Faculty of engineering, Kanagawa Univ.) °Yoshiyuki Mochida, Gorou Arai

2-P-15 Structural Analysis of Alkali Triple Ions and Their Sugar Complexes by Collisionally Activated Dissociation Mass Spectrometry
([1]Graduate School of Engineering, Fukui University, [2]Dep. Educ, Fukui Univ.) °Nora Martinez[1], Minoru Hatanaka[1], Ryuji Nakata[2], Kimio Isa[2]

2-P-16 Clusters of dilute alcohol aqueous solutions,Variation in the cluster compositions at the liquid surface
([1]Dep. Marine Bioresource, Tokyo Univ. of Marine Science., [2]Dep. Pharam. of Toyaku Univ., [3]Cource of Resources Expl., Tokai Univ., [4]Yokohama National Univ.) °Yoshiyuki Shimura[1], Yasuo Shida[2], Masashi Maita[1], Nobuaki Okamoto[1], Toshiro Saito[3], Masahiko Tsuchiya[4]

2nd Day (Wed., June 3, 2004)

2-P-17 Determination of molecular weight of a sodium cholate micelle
(Faculty of Eng., Gifu Univ.)
°Takatomo Kajiura, Kouji Takeda, Daisuke Nohara

2-P-18 Inclusion of Permethylated Cyclic (1→2)-β-Glucan (n=17) with Cations.
([1]ISIR, Osaka Univ., [2]OIT) °Yoshio Takai[1], Yasuko Nishida[2], Jyuichi Tanaka[2], Masami Sawada[1]

2-P-19 Detection of cucurbit[6]uril host-guest complexes by electrospray ionization mass spectrometry
([1]Fac.of Engineering,Kansai Univ., [2]Center for Smart Supramolecules, POSTECH, [3]Entropy Control Project ICORP)°Masanobu Kondo[1], Issei Osaka[1], Ryuichi Arakawa[1], Selvapalam N.[2], Samal S.[2], Kim Kimoon[2], Mikhail v. Rekharsky[3], Yoshihisa Inoue[3]

2-P-20 Enantiomeric excess determination of amines and dipeptides by mass spectrometry using the EL-host method
([1]ISIR,Osaka Univ., [2]Kansai Univ., [3]OIT, [4]OMTRI, [5]OWU)Masami Sawada[1], Akihiro Kamei[2], Hirotaka Ueno[3], °Hitoshi Yamada[1], Yoshio Takai[1], Motohiro Shizuma[4], Hiroshi Yamaoka[5], Juichi Tanaka[3], Ryuichi Arakawa[2]

2-P-21 Determination of branched β-cyclodextrin-prostaglandin inclusion complex by ESIMS
([1]Japan Clinical Lab, Inc, [2]School of Pharmaceutical Sciences Mukogawa Women's Univ.)°Naoe Yamane[1], Yuki Nishi[2], Toshiko Tanimoto[2]

2-P-22 Elimination processes of guest molecules from the inclusion complexes of deoxycholic acids (Dept. Chem. Kinki Univ.)
°Takayoshi Kimura, Yuuki Adachi, Takehiro Nakanishi, Tadashi Kamiyama

2-P-23 Structural study of oriental lacquer films during the hardening process
([1]JEOL DATUM, [2]Meiji Univ.)
°Noriyasu Niimura[1], Tetsuo Miyakoshi[2]

2-P-24 Thermal Decompositions and Evolved Gas Analysis of Alkylbenzyldimethylalkylammonium Chloride
([1]Forensic Sci. Lab. Saitama P.H.Q., [2]Dep. Sci. Saitama Univ.)°Yasushi Ehara[1], Michio Kutsuzawa[1], Hitoshi Sekine[1], Yoshio Shibasaki[2]

2-P-25 UV-MALDI-TOF-MS analysis of glycosphingolipids from Plasmodium falciparum by using nor-harmane and GA as matrix
([1]UBA, [2]FCEN) °Rosa Erra-Balsells[1], Malena Landoni[1], Masae Nishioka[2], Hiroshi Nonami[2], Alicia S. Couto[1]

2-P-26 Computational Analysis of Fragmentation for Glyco-chains in MS
([1]CBRC, [2]FUJITSU LABORATORIES LTD.) °Kazuhiko Fukui[1], Katsutoshi Takahashi[1], Noriko Ikeda[2], Hiroshi Yamakawa[2], Kouji Maruhashi[2], Nobuo Watanabe[2]

2-P-27 Saccharide chain analysis of glycosphingolipids using LC/MS with monolithic normal phase capillary column
(Inst. Anal. Res. Cntr)
°Takeshi Kasama, Kenji Kawasaki

2-P-28 Comparison of mass spectra of phosphonoglycosphingolipids with ESI and APCI.
([1]Kansai Lipid Institute, [2]Joint Research Center, Kinki Univ.) °Hideki Kishine[1], Masanori Morita[2], Akira Hayashi[1]

2-P-29 Electron Capture Dissociation of Enzymatically Synthesized Glyco-peptides
(CBRC, AIST) °Katsutoshi Takahashi, Kazuhiko Fukui

2-P-30 Systematic analysis of glycans and peptide backbone of glycopeptide by MALDI QITTOF MS
([1]Res. Inst. Osaka MCH, [2]JST)
Yoshinao Wada[1], °Michiko Tajiri[2]

2-P-31 Analysis of oligosaccharides from N-linked glycopeptides by MALDI-QIT-TOF MS
([1]Life Science Lab., Shimadzu Corp., [2]MS Lab., Shimadzu Corp., [3]Shimadzu Biotech)°Masaki Yamada[1], Yuko Fukuyama[2], Chris W. Sutton[3], Osamu Nishimura[1], Koichi Tanaka[2]

2-P-32 New Analytical Method for Glycoprotein Structure Analysis using MALDI-QIT-TOF MS^n: an Application to Ribonuclease B
([1]MS Res. Lab., Shimadzu Corp., [2]Research Institute, Osaka MCH, [3]Life Sience Lab., Shimadzu Corp.) °Yuko Fukuyama[1], Koichi Tanaka[1], Yoshinao Wada[2], Noriyuki Ojima[3], Yuzo Yamazaki[3], Masaki Yamada[3]

2nd Day (Wed., June 3, 2004)

2-P-33 Fast analysis of drugs in plasma by column-switching LC/MS
([1]Anal. Appl. Dept, Shimadzu Corp., [2]Anal. Res. Lab, Eisai Co., Ltd.)
°Shinichi Kawano[1], Masatoshi Takahashi[1], Takashi Hine[1], Eiichi Yamamoto[2], Naoki Asakawa[2]

2-P-34 The usefulness of methy[1]hippuric acids analysis in case of thinner abuser by LC/MS
(Forensic Science Lab. Fukuoka Prefectural Police Headquarters)
°Masatoshi Morinaga

2-P-35 Matrix effects on the analysis of trichothecens using LC/ESI-MS/MS
([1]Nihon Waters K.K, [2]Dep. Natural Sci. & Tech., Kanazawa Univ.)
°Hideki Sasaki[1], Jun Yonekubo[1], Kazuiti Hayakawa[2]

2-P-36 Direct Analysis of Bacterial Lipids by MALDI-MS Using On-Probe Sample Pretreatment
([1]Nagoya Univ.)° Yasuyuki Ishida[1], Kuniyuki Kitagawa[1], Akihito Nakayama[1], Hajime Ohtani[1]

2-P-37 Identification of Molecular Species of Phospholipids by Normal and Reverse phase capillary LC/ESIMS/MS
([1]Grad. Sch. of Med, Tokyo Univ., [2]Grad. Sch. of Pharm. Sci, Nagoya City Univ.) °Kotoko Yamatani[1], Toshiaki Houjou[2], Takao Shimizu[1], Ryo Taguchi[1]

2-P-38 Metabolite analyses with UV-MALDI and ESI TOF-MS in tulip bulbs during vernalization treatments
([1]Fac. Agr. Ehime Univ., [2]Univ. Buenos Aires)° Naoko Sugimoto[1], Hiroshi Wada[1], Rosa Erra-Balsells[2], Hiroshi Nonami[1]

2-P-39 Analysis of Extract from Bixa orellana, antioxidant of native Brazil, by LC/MS
(School of Materials Science, JAIST.)
°Akio Hayashi, Kazuo Tsujimoto

Nagoya Garden Palace

Banquet
(18 : 30〜20 : 30)

3rd Day (Wed., June 4, 2004)

Conference room 1

Oral presentation

(9 : 00～11 : 00)

(DIOS, Instruments, Ionization methods)

Chairperson: Hiroaki Sato

3-O1-01 Reduction of Organic Dyes in Matrix-Assisted Laser Desorption/Ionization and Desorption/Ionization on Porous Silicon
([1]JST, [2]Osaka Univ., [3]Kansai Univ., [4]Osaka Medical Center and Research Institute for Maternal and Child Health)
°Shoji Okuno[1], Motohiro Nakano[2], Genetsu Matsubayashi[2], Ryuichi Arakawa[3], Yoshinao Wada[4]

3-O1-02 Quantitative analysis of polypropyleneglycol mixtures by desorption/ionization on porous silicon mass spectrometry
([1]JST, [2]Kansai Univ., [3]Osaka Medical Center and Research Institute for Maternal and Child Health)°Shoji Okuno[1], Ryuichi Arakawa[2], Yoshinao Wada[3]

3-O1-03 Mass Spectrometric Analysis of Low Molecular Weight Polyetsers by laser Desorption Ionization on Porous Silicon (DIOS)
([1]Fac. of Engineerring, Kansai Univ., [2]Japan Science and Technology Agency)
°Yukiyasu Shimomae[1], Hidemi Morikawa[1], Kazuma Ohara[1], Shouji Okuno[2], Ryuuiti Arakawa[1]
Chairperson: Morio Ishihara

3-O1-04 Development of super time-of-flight mass spectrometers (Super-TOF) I
([1]EEL AIST, [2]UpTech AIST)
°Naoaki Saito[1], Masataka Ohkubo[2], Masahiro Ukibe[2], Shingo Ichimura[2]

3-O1-05 Development of a high performance LC-QIT-TOF (Shimadzu corporation)
°Shinichi Yamaguchi, Junichi Taniguchi, Eizoh Kawatoh, Hiroto Itoi, Kozo Miseki

3-O1-06 Comparative study of laser spray and electrospray using an orthogonal TOF mass spectrometer
(Clean Energy Research Center, Yamanashi Univ) Atsushi Takamizawa, Fumiyuki Nakagawa, Tohru Sakai, Hiroaki Maeda, Hideki Yamada, °Kenzo Hiraoka

Luncheon seminar

(12 : 10～13 : 10)

3-L1-01 Comprehensive Analyses of Endogenous Metabolites by LC-TOFMS and LC-QTOFMS with the Software Developed for Biomarker Discovery
([1]Waters, [2]Jasco) °Michiko Kanai[1], Sanae Furusho[2]

Symposium: The Next Generations, of the MS, by the MS, for the MS

(13 : 30～16 : 30)

Organizer: Takahisa Tsugoshi & Yukiko Hirabayashi
Chairperson: Yukiko Hirabayashi

3-S1-01 MS/MS Newborn Screening and Chemical Diagnosis of Metabolic Diseases.
(Faculty of Medical Sciences, Univ. of Fukui[1], Centers for Advanced Research Support[2]) °Yosuke Shigematsu[1], Ikue Hata[1], Yukie Tanaka[2]
Chairperson: Tadashi Arii

3-S1-02 MS analysis for thin solid films
(Materials Chemistry and Engineering, College of Nihon Univ.)
Toshikazu Nishide
Chairperson: Takahisa Tsugoshi

3-S1-03 The present and possibility of fragment-free IAMS
(ANELVA Technix) °Yoshiro Shiokawa, M.Nakamura, H.Maruyama, Y.Taneda, M.Inouoe, T.Fujii
Chairperson: Takayoshi Kimura

3-S1-04 Structure characterization of oxidatively modified DJ-1, responsible for familial Parkinson's disease using LTQ linear ion trap MS
([1]HSSRC, AIST, [2]ThermoElectron KK)
°Tomoya Kinumi[1], Junko Kimata[2], Masayuki Kubota[2], Etsuo Niki[1]

3-S1-05 Image Analysis of Industrial Materials using Scanning MALDI Technique
(Life Sci., Shimadzu Corp.)
°Shin-ichirou Kawabata

3rd Day (Wed., June 4, 2004)

3-S1-06 Measurement of SiH_4 plasma by Ion Attachment Mass Spectrometry (IAMS)
([1]Anelva Technix Corp., [2]Agricul., Tokyo Univ. of Agricul. & Technol., [3]Graduate School of BASE, Tokyo Univ. of Agricul. & Technol.)°Megumi Nakamura[1], Yasuyuki Taneda[1], Yoshiki Hirano[1], Yoshiro Shiokawa[1], Masao Takayanagi[2], Munetaka Nakata[3]

Conference room 2

Oral presentation

(9 : 00～11 : 00)

(Gas phase reaction, Reaction mechanism, Data base)

Chairperson: Mikio Tanaka

3-O2-01 Gas-phase positive and negative ion-molecule reactions in C_5F_8: perfluoro effect
([1]Clean Energy Res. Center Yamanashi Univ., [2]Yamanashi Fuji Industrial Technology, [3]MEIKO Co. Ltd, [4]Department of Chemistry, Nara Univ. of Education)°Toshiyasu Itikawa[1], Masayumi Ishida[1], Kazuo Fujita[1], Hiroshi Okada[1], Kiyotoshi Takao[2], Koki Hiizumi[3], Kenzo Hiraoka[1], Siniti Yamabe[4]

3-O2-02 Gas-Phase Reactivity of La (I) Cation
([1]IMCE, [2]Kyushu Univ.)
°Masaaki Mishima[1, 2], Soe Than[2]

3-O2-03 Study of intracluster polymerization reactions initiated by an alkali metal atom in gas-phase clusters
(Dep. Chem., Tohoku Univ.)
°Hironori Tsunoyama, Fuminori Misaizu, Koichi Ohno

Chairperson: Shigeo Hayakawa

3-O2-04 Electron transfers for $[RuX_2(bpy)_2]$ (X＝Cl and CN) observed in LSIMS mass spectra
([1]Lab. Chem., Nippon Med. Sch., [2]Dep. Chem., Rikkyo Univ.)
°Mikio Tanaka[1], Eiichi Miki[2]

3-O2-05 Structure determination of FK228 and its metabolites using the new SRM data dependent exclusion MS^n measurement by LC/ESI/Ion Trap MS.
(Dep. DMPK, Fujisawa Pharm.)
°Zenzaburo Tozuka, Toshifumi Shiraga, Hidetsugu Murai, Rika Ishimura, Akira Kagayama

3-O2-06 Mass Spectral Data Base actively utilizing the Internet Facilities (IV) Construction and Setting up of a New MSDB Web Server
([1]Techno-Science, [2]Internet Japan)
Hirotaka Rokusha[1], °Kogoro Maeda[2]

3rd Day (Wed., June 4, 2004)

Oral presentation

(13 : 30～16 : 30)

(Gas phase reaction, Ion reaction, Reaction mechanism) Chairperson: Takae Takeuchi

3-O2-07 Metastable peak in MALDI-TOFMS and matrix effect
(Integ. Sci, Yokohama City Univ.)
°Mitsuo Takayama

3-O2-08 Definitive evidence of N-Cα bond cleavage of hydrogen atom adduct peptides neutralized by near-resonant electron transfer collision with an alkali metal target
(Coll. Integr. Arts & Sci., Osaka Pref. Univ.)
°Shigeo Hayakawa, Mami Hashimoto

3-O2-09 Search for Silent Hydrogen Atoms on the Competitive Hidden Hydrogen Rearrangement ([1]Fac. Sci., Osaka Women's Univ., [2]Fac. Educ. Regional Sci., Univ. of Fukui, [3]Inst. of Hokuriku Envronmental Res., [4]Vrije Universiteit) °Hiroshi Yamaoka[1], Chiaki Murakami[1], Ikuko Kusagi[1], Kumiko Katsuma[1], Kimio Isa[2], Yasuhiko Maekawa[3], Nico M. M. Nibbering[4]

Chairperson: Mitsuo Takayama

3-O2-10 Structures of 2N4O-18Crown-Metal Ion Complexes Formed by Spray Ionization
(Grad. School of Eng., Osaka Univ.)
°Masana Arimura, Tadashi Katsura, Gen-etsu Matsubayashi

3-O2-11 Chiral Carboxylic Acid Recognition by ESI Mass Spectrometry
([1]ISIR, Osaka Univ., [2]OIT, [3]OMTRI, [4]OWU)°Masami Sawada[1], Sachiyo Nomura[1], Yoshitaka Miyamoto[2], Yoshio Takai[1], Hitoshi Yamada[1], Motohiro Shizuma[3], Juichi Tanaka[2], Natsu Egawa[4], Hiroshi Yamaoka[4]

3-O2-12 Differentiation of $C_7H_7O^+$ Ions by CID Spectra versus Collision Energy Using Ion Trap Mass Spectrometer
([1]Gunma College Tech., [2]Gunma College Tec. Adv.) Susumu Tajima[1], °Masashi Mamada[2], Satoshi Nakajima[1]

Chairperson: Hiroshi Yamaoka

3-O2-13 CO Loss from Acetylphenyl Ion ($CH_3COC_6H_4^+$ m/z 119) with Methyl Migration
([1]Gunma College Tech., [2]Gunma College Tech. Adv., [3]Fac. Sci. Nara Women, s Univ.) Susumu Tajima[1], °Kanako Minegishi[2], Satoshi Nakajima[1], Takae Takeuchi[3]

3-O2-14 Specific Fragmentation of Negative Ion of Octylphenol
(Integ.Sci, Yokohama City Univ.)
°Yasuhiro Iida, Eriko Saegusa, Nobuhiro Sato, Mitsuo Takayama

3-O2-15 Fragmentation Mechanism of Organogermanium and Organosilicon Compounds in APCI and EI Mass Spectrometry
(Dep. Chem., Nara Women's Univ.)
°Yuko Shirai, Takae Takeuchi

3rd Day (Wed., June 4, 2004)

Hall

Oral presentation

(9 : 00～10 : 00)

(Data base, Data analysis, Peptide structure)

Chairperson: Zenzaburo Tozuka

3-O3-01 Mass Spectrometric Identification of a Novel Tyrosine-Phosphorylated Protein using EST Consensus Sequence Database

([1]Biosignal Res. Ctr., Kobe Univ., [2]Res. Ctr. Environ. Genom., Kobe Univ.) °Ken-ichi Yoshino[1], Kenichi Sato[2], Noriko Oshiro[1], Keiichi Sakakibara[2], Chiharu Tokunaga[1], Yasuo Fukami[2], Kazuyoshi Yonozawa[1]

3-O3-02 Fully automated multi-dimensional protein profiling system for human plasma proteomics

([1]Clinical Proteome Center, Tokyo Medical Univ., [2]AMR Inc.) °Kiyonaga Fujii[1], Tomoyo Nakano[2], Fumihiko Usui[2], Yasuhiko Bando[2], Toshihide Nishimura[1]

3-O3-03 Structure analysis of melittin analogue in lipid system

(Dep. Che., Univ. Tokyo) Malika Hammoudi, Tomohiro Yamazaki, °Tohru Yamagaki, Kazuo Tachibana

Special Lecture

(10 : 00～11 : 00) Chairperson: Satoko Akashi

3-SL3-01 Application of Top Down Proteomics to Srudy Epigenetics and Gene Regulation

(Genomic Inst. of Singapore) Newman S.-K. Sze

Symposium: Metabolome and MS

(13 : 30～16 : 30)

Organizer: Ryo Taguchi & Tomoyoshi Soga

Chairperson: Kazuo Hirayama, Ryo Taguchi & Tomoyoshi Soga

3-S3-01 Metabolome Analysis and Systems Biology

(Inst. Adv. Biosci., Keio Univ., HMT Inc.) Masaru Tomita

3-S3-02 Metabolome Analysis of Bacteria, Plant and Manmalian Cells by CE-MS

(Inst. Adv. Biosci. Keio Univ.) Tomoyoshi Soga

3-S3-03 Metabolome Analysis Using an Interactive Metabolic Map

(Dep. Comput. Biol, Tokyo Univ.) Masanori Arita

3-S3-04 High throughput and high sensitivity LC/MS-oa-TOF and UPLC/TOF-MS for the identification of biomarkers of toxicity and disease using a metabonomics approach

([1]Waters corporation, [2]Imperial College, [3]Astra-Zeneca, Alderly Park, Maccelsfield, UK) °Robert Plumb[1], Jose Castro-Perez[1], Jennifer Garager[1], Ian D. Wilson[3]

3-S3-05 Identification of phospholipids from MS data for lipidomics

(Dept. Metabo, Grad. Sch. Med, Univ. Tokyo) Ryo Taguchi

3rd Day (Wed., June 4, 2004)

Display room

Poster presentation
(11 : 00～12 : 00)
Poster display 9 : 00～
Pull down 16 : 30

3-P-01 Performance evaluation of multi-turn time-of-flight mass spetrometer 'MULTUM Linear plus' —stability of flight time for each cycle—
(Dep. Phy. Osaka Univ.)
°Daisuke Okumura, Michisato Toyoda, Morio Ishihara, Itsuo Katakuse

3-P-02 Construction of a compact (20*20 cm) Multi-Turn Time-of-Flight Mass Spectrometer (Dep. Phys. Osaka. Univ)
°Satoshi Uchida, Daisuke Okumura, Michisato Toyoda, Morio Ishihara, Toshio Ichihara, Itsuo Katakuse

3-P-03 A new calibration method for a multi turn TOF-MS.
([1]Faculty of Science, Osaka Univ, [2]Jeol)
°Takuya Miyamura[1], Morio Isihara[1], Hirosi Katou[2], Daisuke Okumura[1], Ituo Katakuse[1]

3-P-04 Multi-turn Time-of-Flight Mass Spectrometer 'MULTUM Linear Plus' with Improved Resolution
(Dep. Phys, Osaka Univ.) °Tatsuhiro Era, Takuro Hagiwara, Daisuke Okumura, Michisato Toyoda, Morio Ishihara, Itsuo Katakuse

3-P-05 Development of the atmospheric pressure penning ionization mass spectrometry
(C.E.R. Yamanashi Univ.)
°Shizuka Kambara, Hiroko Furuya, Susumu Fujimaki, Kenzo Hiraoka

3-P-06 Study of the Cylindrical Capacitor Interface
([1]Clean Energy Res. Center, Yamanashi University, [2]Yamanashi pref. Fuji Industrial Technology) °Hiroaki Maeda[1], Hideki Yamada[1], Tooru Sakai[1], Humiyuki Nakagawa[1], Masana Nakamura[2], Kenzou Hiraoka[1]

3-P-07 CID Spectra versus Collision Energy Using a Quadrupole Ion Trap Mass Spectrometer. Dissociation of Ionized Maleamide and Fumaramide
([1]Gunma College. Tech., [2]JEOL)
°Susumu Tajima[1], Masaaki Ubukata[2], Masao Fujishige[1]

3-P-08 Characteristics of mass spectra of alkyl nitrates by negative ion chemical ionization mass spectrometry
(Nat'l. Inst. Environ. Studies)
°Keiichi Sato, Takashi Imamura, Hiroshi Tanimoto

3-P-09 Substituent Effect on Unimolecular Dissociation of N-(ω-phenyl)acyllactams
([1]Fac. Sci., Osaka Women's Univ., [2]Fac. Educ. Regional Sci., Univ. of Fukui, [3]Inst. Hokuriku Environmental Res.)
°Eri Ueno[1], Hiroshi Yamaoka[1], Kumiko Katsuma[1], Kimio Isa[2], Yasuhiko Maekawa[3]

3-P-10 Ion/Molecule Reactions of Silver Cluster Cations with Crown Ethers in a Cylindrical Ion Trap
([1]Dept. Phys., Osaka Univ., [2]Osaka Pref. Univ., [3]Dept. Chem., Nara Women's Univ.)
°Kousuke Kumondai[1], Michisato Toyoda[1], Kenichi Iwamoto[2], Takae Takeuchi[3], Morio Ishihara[1], Itsuo Katakuse[1]

3-P-11 Unimolecular Reactions of Diethyl Malonate upon Electron Ionization
([1]Gunma College Tech., [2]Gunma College Tech. Adv.)Susumu Tajima[1], °Masashi Mamada[2], Daisuke Ishiguro[1], Satoshi Nakajima[1]

3-P-12 CO Loss from Methoxyphenyl Ion (m/z 107) with Methyl Migration
([1]Gunma College Tech., [2]Gunma College Tech. Adv., [3]Fac. Sci. Nara Women,s Univ.)
Susumu Tajima[1], °Satoshi Nakajima[1], Shinya Oki[1], Masashi Mamada[2], Takae Takeuchi[3]

3-P-13 Ab Initio Study on the Oxidation Mechanism of N-Ethylhydroxylamine in Organic Solvents
([1]Dep. Chem., Nara Women's Univ., [2]Fac. Pharm. Sci., Mukogawa Women's Univ.) °Takae Takeuchi[1], Kyoko Nakanishi[1], Shizuyo Horiyama[2]

3rd Day (Wed., June 4, 2004)

3-P-14 Time- and Temperature-Dependent CSI-MS Studies of the Trans-Etherification and Hydrolysis Reaction of Titanium (IV) Isopropoxide with BINOL and Water
([1]Chem. Res. Lab., Nissan Chem. Ind., LTD., [2]Chem. Ana. Cen., Chiba Univ.)
°Tomoyuki Ozawa[1], Kazuaki Shikii[1], Masashi Ohno[1], Tatsuya Seki[1], Shoichi Kondo[1], Hiroo Matsumoto[1], Yoshihisa Sei[2], Shigeru Sakamoto[2], Kentaro Yamaguchi[2]

3-P-15 The studies of solution structure of steroid compounds by cold-spray ionization (CSI-) mass spectrometry and pulsed field gradient (PFG) NMR
([1]Chem. Anal. Center, Chiba Univ., [2]NMR Appl. Lab., JEOL)°Kazuaki Shikii[1], Shigeru Sakamoto[1], Hiroko Seki[1], Hiroaki Utsumi[2], Kentaro Yamaguchi[1]

3-P-16 Observation of Biomolecule-Bound water interaction by Cold-Spray Ionization Mass Spectrometry
([1]CAC. Chiba Univ., [2]Dep. Chem, Tokyo Metro. Univ.) Kentaro Yamaguchi[1], Mitsuru Tashiro[2], °Yoshihsa Sei[1]

3-P-17 Analysis of labile organic compounds by Cold-Spray Ionization mass spectrometry
(JEOL) °Kiyotaka Konuma, Kazuko Tanaka, Junichi Osuga, Tetsuichiro Morita, Kenji Nagatomo, Jun Tamura

3-P-18 High Throughput Analysis by a Dual-Column LCMS System Using 1.8 μm Octadecyl Silica Packed Columns
([1]Yokogawa Analytical Systems, Inc., [2]Dep. Materials Sci., Toyohashi Univ. Tech.) °Hirokazu Sawada[1], Saiduzzaman Md[2], Hiroki Kumagai[1]

3-P-19 High Throughput Nano-scale Spotting System for LC/MALDI-TOF-MS
([1]LC, Shimadzu, [2]Koichi Tanaka Mass Spectrometry Research Laboratory, Shimadzu, [3]Shimadzu)°Yosuke Iwata[1], Sadanori Sekiya[2], Shuzo Maruyama[1], Yutaka Kuratani[3], Yusuke Osaka[1]

3-P-20 High-throughput screening system for evaluation of the interactions between small molecule drugs and proteins expressed from human full- length cDNA clones using size-exclusion chromatography coupled with mass spectrometry
(REPRORI) Hideaki Sueoka, Tetsuo Torii, °Kouichi Tsuchiya, Tadakazu Yamauchi, Takeshi Tsutsumi, Morikazu Kito, Yuko Isono, Yorimasa Suwa

3-P-21 Enhancement of matrix-assisted laser desorption/ionization mass spectra according to the derivatization of peptides with arginine via a C-terminal oxazolone
([1]Life.Lab, Shimadzu. corp, [2]Dep. Chem, Nara Womens Univ., [3]Graduate School of Science, Osaka Univ, [4]Mass, Res, Lab, [5]Graduate School of Frontier Biosciences, Osaka Univ)
°Minoru Yamaguchi[1], Takashi Nakazawa[2], Kimiko Nishida[2], Mayu Ishida[2], Hiroki Kuyama[1], Takashi Obama[1], Eiji Ando[1], Takaaki Okamura[3], Norikazu Ueyama[3], Koichi Tanaka[4], Shigemi Norioka[5]

3-P-22 Improvement of MS/MS fragment ion coverage of the peptide including acidic residues by amidation with amine constituent composed of ^{15}N
([1]MS Res. Lab., Shimadzu Corp., [2]Research Institute, Osaka MCH.) °Sadanori Sekiya[1], Yoshinao Wada[2], Koichi Tanaka[1]

3-P-23 Protein signal enhancement in MALDI-TOF MS
(Natl. Inst. Health Sci.) °Tetsu Kobayashi, Hiroshi Kawai, Takuo Suzuki, Toru Kawanishi, Takao Hayakawa

3-P-24 The method for N-terminal amino acid sequencing of proteins by mass spectrometry
([1]Life Science Lab., Shimadzu Corp., [2]Koichi Tanaka Mass Spectrometry Research Laboratory, [3]Graduate School of Science, Osaka Univ., [4]Dep.Chem., Nara Women's Univ., [5]Graduate School of Frontier Biosciences, Osaka Univ.)
°Takashi Obama[1], Minoru Yamaguchi[1], Hiroki Kuyama[1], Eiji Ando[1], Masami Ichikawa[1], Koichi Tanaka[2], Takaaki Okamura[3], Norikazu Ueyama[3], Takashi Nakazawa[4], Shigemi Norioka[5]

3rd Day (Wed., June 4, 2004)

3-P-25 DeNovo sequence using MS^n of MALDI-QIT-TOF-MS
([1]MS Res. Lab., Shimadzu Corp., [2]Tech. Res. Lab., Shimadzu Corp., [3]SRL)
°Shinichi Iwamoto[1], Shigeki Kajihara[2], Mike May[3], Jennifer Broughton[3], Yao Jing wen[3], Koichi Tanaka[1]

3-P-26 An Alternative Method for Top Down Proteomics using MALDI-QIT-TOF MS^n
([1]MS Res. Lab. Shimadzu Corp., [2]Kratos)
°Koichi Tanaka[1], Rachel Martin[2]

3-P-27 Analysis of physiological amino acids by capillary electrophoresis —time-of-flight mass spectrometry
(JEOL.Ltd) °Kenji Nagatomo, Toshinobu Hondo, Tetsuichiro Morita, Yasunori Nishimura, Jun Tamura

3-P-28 Use of a thin polyacrylamide gel for ingel digestion, and its manufacturing method
([1]Res. Inst. Osaka MCH, [2]JST)
°Yoshinao Wada[1], Michiko Tajiri[2]

3-P-29 A novel enzymatic microreactor for LC/MS analysis
(Hitachi, Ltd.) °Masako Ishimaru, Astumu Hirabayashi

3-P-30 Accelerated Protein Digestion prior to Mass Spectrometry
([1]Nihon-Millipore KK, [2]Millipore Corp.)
°Kazuhisa Kameyama[1], Elena Chernokalskaya[2], Anja Dedeo[2]

3-P-31 Residue Selective Fragmentation of Electrospray-Generated Ubiquitin Ions in a Time Dependent Process
(Biomol. Characterization, Riken)
°Takemichi Nakamura, Naoshi Dohmae

3-P-32 Convenient method to distinguish between phosphate and sulfate by Hydrogen/Deuterium exchange mass spectrometry
(Nagoya Univ.) °Akira Kanakubo, Minoru Isobe

3-P-33 Mass Spectrometry on H/D Exchange of Ligand-Complexes of E.coli Dihydrofolate Reductase
(Grad. Sci, Hiroshima Univ.)
°Tatsuya Yamamoto, Miyuki Inno, Shunsuke Izumi, Kunihiko Gekko

3-P-34 Analysis of endocrine disruptive action by nonylphenol and bisphenol A: breast cancer cells
(Kobe Pharm. Univ.) °Atsuko Takeuchi, Kayoko Saiki

3-P-35 Molecular basis of enzyme inactivation by an endogenous electrophile 4-hydroxy-2-nonenal: identification of modification sites in thioredoxin
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3-P-36 Detection of phosphorylated proteins from the extract of H-rasV12 transfected cells
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3-P-37 Identification of phosphorylation site using a MALDI QIT-TOF mass spectrometer
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°Yuzo Yamazaki[1], Noriyuki Ojima[1], Yasuhiro Kuramitsu[2], Masanoro Fujimoto[2], Kazuyuki Nakamura[2], Koichi Tanaka[3]

3-P-38 An efficient chemical method for dephosphorylation of phosphopeptides
([1]Life Science Lab. Shimadzu Corp., [2]Koichi Tanaka Mass Spectrometry Research Laboratory)Hiroki Kuyama[1], Chikako Toda[1], Makoto Watanabe[1], °Eiichi Matsuo[1], Koichi Tanaka[2], Osamu Nishimura[1]

3-P-39 Development effective Post-translational modifications analysis method based on the LTQ features
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