

From Bench to Beach

AOMS 2025

The 10th Asia-Oceania Mass Spectrometry Conference

Ishigaki Island, Okinawa, Japan - June 22-25, 2025



Conference Program



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Welcome address from the Chair of the 10th AOMSC

The 10th Asia-Oceania Mass Spectrometry Conference (AOMSC) will be held at the ANA Intercontinental Ishigaki Resort, Ishigaki Island, Okinawa, Japan, from June 22 to 25, 2025, hosted by the Mass Spectrometry Society of Japan.

The AOMSC is the largest international conference on mass spectrometry and related topics in the Asia-Oceania region and has been held every other year since its first meeting in Tsukuba, Japan, in 2010, although the 9th conference was unfortunately postponed in 2021 due to the global Covid19 pandemic, in 2023, the 9th meeting was successfully held in Jeju, Korea. Over the past 15 years, the AOMSC has played a pivotal role in providing a unique platform for sharing research results and experiences through sessions on a wide variety of topics and a young scientists' forum. Continuing this tradition, the 2025 conference will be held in Ishigaki, Japan's southernmost subtropical island, providing a venue for sharing discoveries and breakthroughs in mass spectrometry. The venue is located on a beautiful beach, and the main theme of this year's conference is "From Bench to Beach". We hope that participants will be able to escape from the confines of their usual laboratories and engage in lively discussions in a unique culture blessed with nature.

Yasushi Ishihama (Chair of AOMSC 2025 committee, Kyoto University)

Local organizing committee

Conference Chair

- *Yasushi Ishihama – Kyoto University*

Local Organizing Committee

- *Jun Adachi – National Institute of Biomedical Innovation, Health and Nutrition*
- *Takeshi Bamba – Kyushu University*
- *Tomoya Kinumi – National Institute of Advanced Industrial Science and Technology*
- *Masayuki Kubota – Waters Corporation*
- *Masamitsu Maekawa – Tohoku University*
- *Masahiro Miyashita – Kyoto University*
- *Takaya Satoh – JEOL Ltd.*
- *Kanako Sekimoto – Yokohama City University*
- *Naoyuki Sugiyama – National Cerebral and Cardiovascular Center*
- *Hirochika Sumino – The University of Tokyo*
- *Michisato Toyoda – The University of Osaka*
- *Atsushi Yamamoto – Tottori University of Environmental Studies*

International Advisory Committee

- *Stephen Blanksby (Australia)*
- *William Donald (Australia)*
- *Yet-Ran Chen (Taiwan)*
- *Man-Ho Choi (South Korea)*
- *Yasushi Ishihama (Japan)*
- *Yuanjiang Pan (China)*
- *Andy Chi-Kit Siu (Hong Kong)*
- *Wei Wu (Singapore)*

History of AOMSC

Year	Hosting Society	Chariperson(s)	City
2010*	MSSJ, Mass Spectrometry Society of Japan (since 1953)	Prof. Mitsuo Takayama	Tsukuba
2011	KSMS, Korean Society for Mass Spectrometry (since 2004)	Dr. Jong Shin Yoo	Busan
2012	MSSJ	Prof. Yoshinao Wada	Kyoto
2013	TSMS, Taiwan Society for Mass Spectrometry (since 2003)	Prof. Yu-Ju Chen	Taipei
2014	CMSS, Chinese Mass Spectrometry Society (Since 1980)	Prof. Huwei Liu	Peking
2015	ANZSMS, Australia and New Zealand Society for Mass Spectrometry (since 1970)	Prof. Stephen Blanksby	Brisbane
2017	SSMS, Singapore Society for Mass Spectrometry (since 2005)	Prof. Maxey Chung	Singapore
2020	HKSMS, Hong Kong Society for Mass Spectrometry (since 1998)	Prof. Ivan Chu	Macau
2023	KSMS	Dr. Byungjoo Kim and Prof. Han Bin Oh	Jeju
2025	MSSJ	Prof. Yasushi Ishihama	Ishigaki

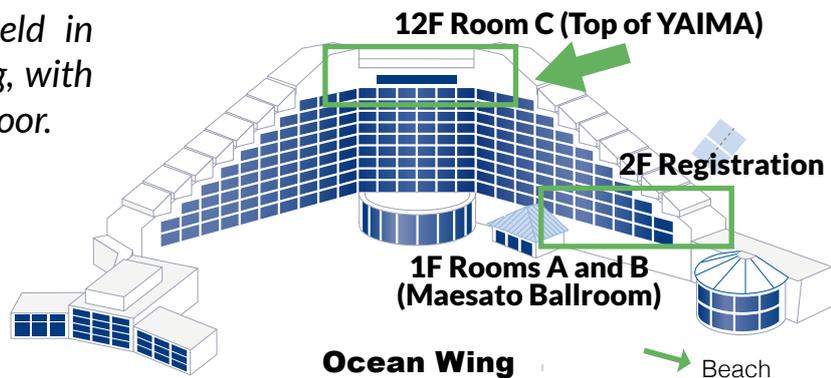
*Co-founders of the AOMSC: (1)Prof. Yoshinao Wada (MSSJ), (2) Prof. Seung Koo Shin (KSMS), and (3) Prof. Jentaie Shiea (TSMS).

Conference venue and floor plans

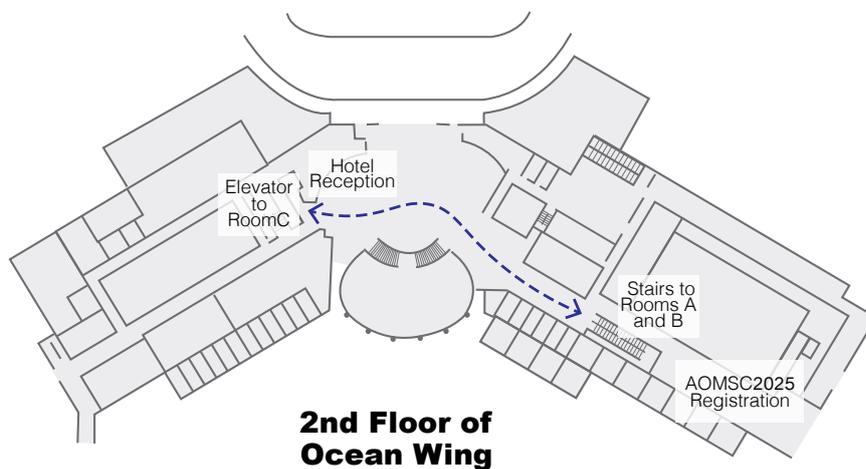
ANA InterContinental Ishigaki Resort



AOMSC2025 will be held in the Ocean Wing building, with registration on the 2nd floor.



To go to Room C, use the stairs to the 2nd floor, pass in front of the hotel reception, and take the elevator to the 12th floor.



Sponsors of the AOMSC2025

Platinum sponsors



ThermoFisher
SCIENTIFIC

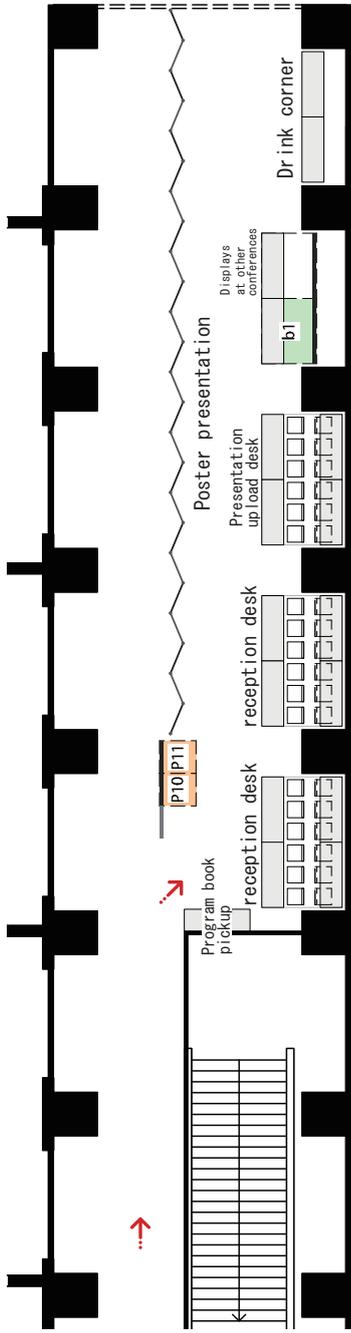
Gold sponsors

Waters™



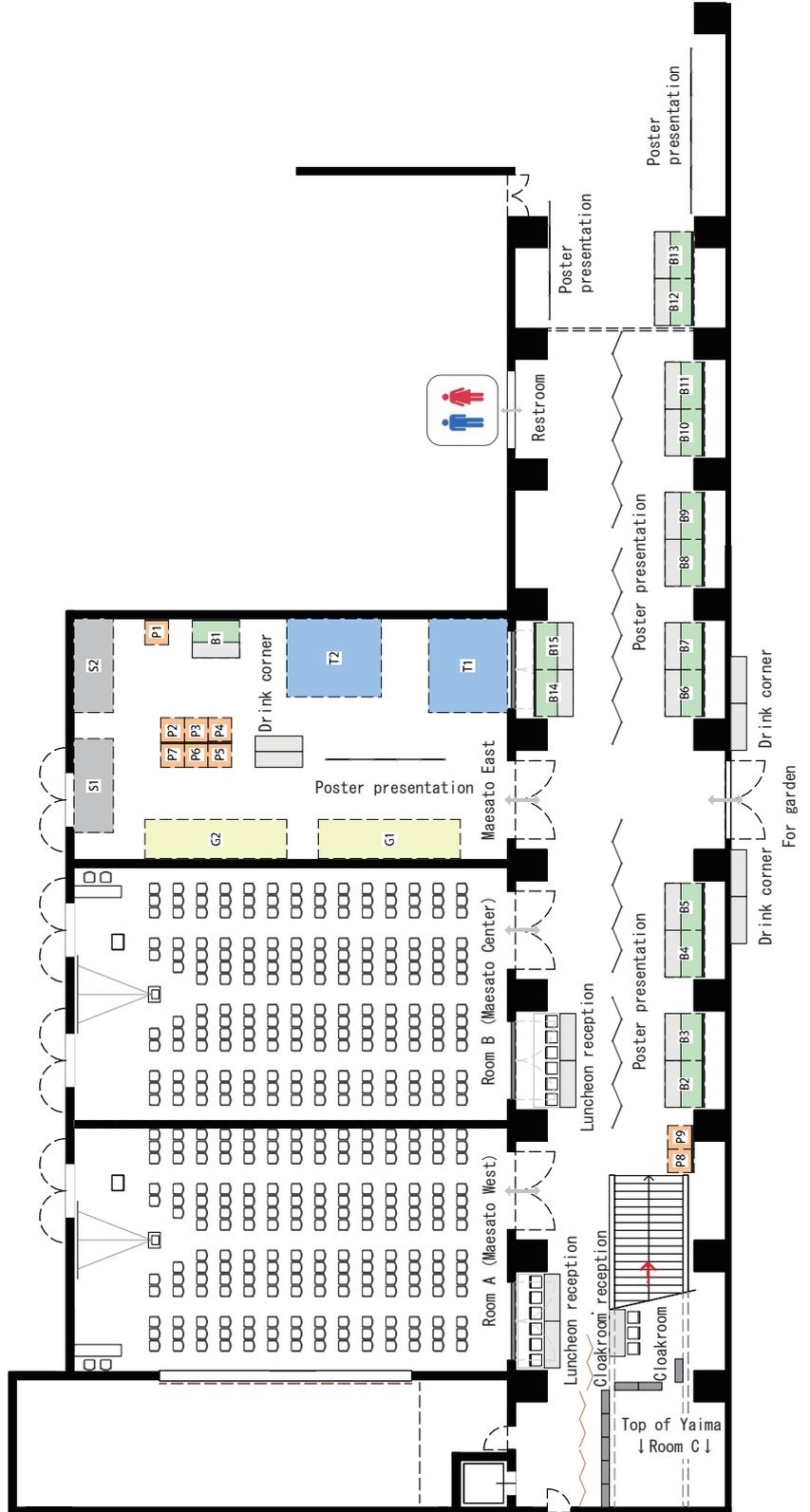
The Power of Precision

Exhibition booth information



Top of Yaima
↓ Room C ↓

Ocean Wing 2F



Top of Yaima
↓ Room C ↓

Ocean Wing 1F (Maesato/Foyer)

Exhibition booth information

NO	Sponsor	ID	Company Name	NO	Sponsor	ID	Company Name
1	Platinum	T1	Shimadzu Corporation	17	Exhibition	B11	AMR, Inc.
2	Platinum	T2	Thermo Fisher Scientific Pte Ltd	18	Exhibition	B12	IonOpticks
3	Gold medal	G1	Waters Corporation	19	Exhibition	B13	Protein Metrics
4	Gold medal	G2	SCIEX	20	Exhibition	B14	Yokogawa Electric Corporation
5	Silver medal	S1	Bruker Japan K.K.	21	Exhibition	B15	Kanomax Analytical Inc.
6	Silver medal	S2	Agilent Technologies, Inc.	22	Poster	P1	Genedata KK
7	Exhibition	B01	Genedata KK	23	Poster	P2	Innovation Science Co., Ltd.
8	Exhibition	B02	Bioinformatics Solutions Inc. / INFOCOM CORPORATION	24	Poster	P3	TAIYO NIPPON SANSCO Corporation
9	Exhibition	B03	Nikkyo Technos Co.,Ltd.	25	Poster	P4	Beforce Ltd.
10	Exhibition	B04	CIL/Otsuka	26	Poster	P5	TERUTATSU SHOUJI CORPORATION
11	Exhibition	B05	PEAK SCIENTIFIC	27	Poster	P6	MITSUI KNOWLEDGE INDUSTRY CO., LTD.
12	Exhibition	B06	GL Sciences inc.	28	Poster	P7	Ricoh Company, Ltd.
13	Exhibition	B07	JEOL Ltd.	29	Poster	P8	Bioinformatics Solutions Inc.
14	Exhibition	B08	M&S Instruments Inc.	30	Poster	P9	SpectralWorks Limited
15	Exhibition	B09	LECO Corporation	31	2F Exhibition	b1	SPM, Kyoto University, Graduate School of Pharmaceutical Sciences
16	Exhibition	B10	Evosep				

General information

Reception Desk

Located on the ocean wing 2F.

Sunday, June 22 (Day1), 11:00-18:15

Monday, June 23 (Day2), 8:00-19:00

Tuesday, June 24 (Day3), 8:00-19:00

Wednesday, June 25 (Day4), 8:00-17:15

Instructions for Oral Presenters

Plenary lecture: 45 or 60 min (incl. introduction and questions)

Oral session: 15 or 30 min (incl. introduction and questions)

Young researchers' session: 10 or 15 min (incl. introduction and questions)

Oral presentations will also be streamed via ZOOM. This is for when a venue cannot accommodate all of the audience. Please note that ZOOM will be used only for distribution of on-site lectures.

Outside speakers and Q&A sessions are not available via on-line.

All presentations will be made using the equipped computers (Windows 11) at the oral presentation rooms with Microsoft PowerPoint/Adobe Acrobat Reader.

Please note that presentations cannot be made using your individual PC.

On-site upload:

Please bring your presentation file as .pptx files for PowerPoint or PDF files on a USB memory stick to the presentation upload desk at least one day prior to the presentation. Presentations should be previewed at that time. The upload desk will be located near the reception desk.

On-line upload:

Presenters can also upload their presentation files via online. Please upload from the URL provided to each presenter via email.

Please note that the network connection is likely to be unstable due to the limited capacity of Wi-Fi connection in venue.

Instructions for Poster Presenters

Poster Set-up

The size of poster that can be mounted on the poster board is 86 cm wide and 120 cm high (for A0 size). It is recommended that the poster presenters bring their own mounting materials, Velcro Tape. These materials also will be provided at the poster session venue by the organizing committee. Posters must be in place throughout the scheduled day. The poster number will be attached at the top of the boards. Afternoon poster sessions may be held outside in the 1F Garden, weather and time permitting.

Sunday, June 22 (Day1): 13:00-18:15

(For welcome mixer participants, the poster removal time is preferably at 20:00.)

Monday, June 23 (Day2): 8:15-19:00

Tuesday, June 24 (Day3): 8:15-19:00

(For banquet participants, the poster removal time is preferably at 21:00.)

Wednesday, June 25 (Day4): 8:15-17:15

After the closing time, the organizing committee may dispose of the posters that remained on the board.

Poster Attendance

Presenters should attend the designated core times listed below

Sunday, June 22 (Day1)

1P-PM, 16:15-17:15 (Odd), 17:15-18:15 (Even)

1P-LB (Late-breaking poster) 16:15-17:15 (Odd), 17:15-18:15 (Even)

TooLatePosterOutside 16:15-17:15

Monday, June 23 (Day2)

2P-AM, 9:30-10:30 (Odd), 10:30-11:30 (Even)

2P-PM, 17:00-18:00 (Odd), 18:00-19:00 (Even)

Tuesday, June 24 (Day3)

3P-AM, 9:15-10:15 (Odd), 10:15-11:15 (Even)

3P-PM, 17:00-18:00 (Odd), 18:00-19:00 (Even)

Wednesday, June 25 (Day4)

4P-AM, 9:15-10:15 (Odd), 10:15-11:15 (Even)

4P-PM, 15:15-16:15 (Odd), 16:15-17:15 (Even)

Important notice regarding photo/video recording at the venue

The copyright of the presentation belongs to the presenter.

If you wish to film or record a presentation, please be sure to obtain the presenter's permission.

It is prohibited to share recorded content on the Internet, including social networking services.

Secondary use by co-organizers of corporate sessions (Luncheon seminar, Teatime seminar, Exhibition booth) is allowed with the permission of the presenter.

Social Events

Welcome mixer

Sunday, June 22, 18:15-20:00

Pre-registration is not required. All are welcome!

Banquet

Tuesday, June 24, 19:00-21:00

Pre-registration only, tickets are already sold-out.

Awarding Ceremony and Closing

Wednesday, June 25, 17:15-18:00

Cloak room

The cloakroom is located on the 1st floor outside the Room A.

Opening hours:

Sunday, June 22 (Day1), 11:00-20:00

Monday, June 23 (Day2), 8:00-19:00

Tuesday, June 24 (Day3), 8:00-21:00

Wednesday, June 25 (Day4), 8:00-18:00

Conference Program and Abstracts

<https://www.mssj.jp/conf/73/program.html>



Time Table The 73rd Annual Conference on Mass Spectrometry (2025) / AOMSC2025

Day 1, June 22 (Sunday) Registration: Ocean Wing 2nd floor from 11 am.

	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00
Room A Maesato West Ocean Wing 1st Floor	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45	0 15 30 45
	9:00 - 11:30 Young Scientist Forum (closed)	11:20 - 12:00 YSF public session co-hosted by MSSJ-KSMS young researcher exchange program	13:00 - 13:40 MSSJ General Meeting (Japanese)	13:50 - 14:50 MSSJ Award Ceremony Award Lecture 1-AW (in Japanese)	15:10 - 16:10 Plenary I 1-PL-1510 Dr. Kengo Suzuki (Euglena Co., Ltd.)	15:00 - 15:10 Opening	16:15 - 17:15 Poster 1P-LB 17:15 - 18:15 Poster 1P-PM	18:15 - 20:00 Welcome Mixer					
Room B Maesato Center Ocean Wing 1st Floor								Chair: Y. Ishihama					
								Chair: M. Toyoda					
Room C Top of Yaima Ocean Wing 12th Floor													
Poster & Exhibition Maesato East, Foyer Ocean Wing 1st & 2nd Floor						13:00 - 20:00 Exhibitions by Sponsors							
Garden													

Time Table The 73rd Annual Conference on Mass Spectrometry (2025) / AOMSC2025

Day 2, June 23 (Monday) Registration: Ocean Wing 2nd floor from 8 am.

	8:00		9:00		10:00		11:00		12:00		13:00		14:00		15:00		16:00		17:00		18:00		19:00		20:00					
	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45		
Room A Maesato West Ocean Wing 1st Floor				8:30 - 9:30 Plenary II 2-PL-0630 Prof. Akhilesh Pandey (Mayo Clinic)					11:40 - 12:55 Oral 2A-01 "Current Issues in Polymer Material Characterization and Recent Approaches with Mass Spectrometry" Chair: T. Satoh, S. Yamane	13:00 - 14:00 Luncheon Seminar 2A-L-1300 Thermo Fisher Scientific	14:10 - 15:25 Oral 2A-02 "AOMSC Special Session" Chair: T. Kinumi	15:40 - 16:55 Oral 2A-03 "Frontiers in mass spectrometry imaging - Applications -" Chair: S. Shimma																		
Room B Maesato Center Ocean Wing 1st Floor				Chair: Y. Ishihama					11:40 - 12:55 Oral 2B-01 "Young researcher session 1" Chair: K. Nakatani C.-J. Chen	13:00 - 14:00 Luncheon Seminar 2B-L-1300 Waters Corporation	14:10 - 15:25 Oral 2B-02 "Environmental pollution and its effects evaluation" Chair: A. Yamamoto, R. Liu	15:40 - 16:55 Oral 2B-03 "Fundamentals & emerging applications of ionization and gas phase ion processes - part I" Chair: L.C. Chen, K. Sekimoto																		
Room C Top of Yaima Ocean Wing 12th Floor									11:40 - 12:55 Oral 2C-01 "Clinical mass spectrometry and reverse translational research -From Diagnostic and treatment application to pathological analysis - Part I" Chair: H.-W. Liao, M. Maekawa	13:00 - 14:00 Luncheon Seminar 2C-L-1300 BRUKER	14:10 - 15:25 Oral 2C-02 "Clinical omics / biomarker development" Chair: Y.-J. Chen, P. Hoffmann	15:40 - 16:55 Oral 2C-03 "Advanced technology in proteomics" Chair: M.-H. Lin, N. Sugiyama																		
Poster & Exhibition																														
Maesato East, Foyer Ocean Wing 1st & 2nd Floor																														
Garden																														

Time Table The 73rd Annual Conference on Mass Spectrometry (2025) / AOMSC2025

Day 3, June 24 (Tuesday) Registration: Ocean Wing 2nd floor from 8 am.

	8:00		9:00		10:00		11:00		12:00		13:00		14:00		15:00		16:00		17:00		18:00		19:00		20:00		
	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30
Room A Maesato West Ocean Wing 1st Floor	8:15 - 9:15 Plenary III 3-PL-0815 Prof. Kini R. Manjunatha (National University of Singapore)						11:25 - 12:40 Oral 3A-01 "Mass spectrometry in therapeutic modality research-1"		Chair: S. Uchiyama, N. Kawasaki		12:45 - 13:45 Luncheon Seminar 3A-L-1245 SCIEX		13:55 - 15:10 Oral 3A-02 "Mass spectrometry in therapeutic modality research-2"		15:10 - 15:40 Teatime Session Technical seminar for statisticians & core lab managers		15:45 - 17:00 Oral 3A-03 "Mass spectrometry of bioactive molecules"		Chair: M. Miyashita, T. Yamagaki				19:00 - 21:00 (Rainy) Banquet				
Room B Maesato Center Ocean Wing 1st Floor	Chair: M. Miyashita						11:25 - 12:40 Oral 3B-01 "Frontiers in mass spectrometry imaging: Methods and instrumentation"		Chair: S. Shimma, Y. Otsuka		12:45 - 13:45 Luncheon Seminar 3B-L-1245 Shimadzu Corporation		13:55 - 15:10 Oral 3B-02 "Sharing and analysis of mass spectrometry data"		15:10 - 15:40 Teatime Session		15:45 - 17:00 Oral 3B-03 "Advances in Mass Spectrometry for the detection of ultra-trace elements and isotopes in Earth and Space Sciences"		Chair: Y. Yokoyama, H. Sumino								
Room C Top of Yaima Ocean Wing 12th Floor							11:25 - 12:40 Oral 3C-01 "Clinical mass spectrometry and reverse translational research - From Diagnostic and treatment application to pathological analysis Part II"		Chair: D. Saegusa, M. Maekawa		12:45 - 13:45 Luncheon Seminar 3C-L-1245 Waters Corporation		13:55 - 15:10 Oral 3C-02 "Single-cell omics and multiomics"				15:45 - 17:00 Oral 3C-03 "Cutting-edge metabolomics technology and applied research"		Chair: T. Bamba, A. Hirayama								
Poster & Exhibition Maesato East, Foyer Ocean Wing 1st & 2nd Floor	9:15 - 10:15 Poster 3P-AM		10:15 - 11:15 Poster 3P-AM		11:15 - 12:15 Poster 3P-AM		12:15 - 13:15 Poster 3P-AM		13:15 - 14:15 Poster 3P-AM		14:15 - 15:15 Poster 3P-AM		15:15 - 16:15 Poster 3P-AM		16:15 - 17:15 Poster 3P-AM		17:15 - 18:15 Poster 3P-PM		18:15 - 19:15 Poster 3P-PM		19:15 - 20:15 Poster 3P-PM		20:15 - 21:15 Poster 3P-PM		21:15 - 22:15 Poster 3P-PM		
Garden																											

Time Table The 73rd Annual Conference on Mass Spectrometry (2025) / AOMSC2025

Day 4, June 25 (Wednesday) Registration: Ocean Wing 2nd floor from 8 am.

	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00
Room A Maesato West Ocean Wing 1st Floor	8:30 - 9:15 Plenary IV 4-PL-0830 Prof. Tomoyoshi Soga (Keio University)			11:25 - 12:40 Oral 4A-O1 "Fundamentals & emerging applications of ionization and gas phase ion processes - part II" Chair: K. Sekimoto, L.C. Chen	12:45 - 13:45 Luncheon Seminar 4A-L-1245 Yokogawa Electric Corporation	13:55 - 15:10 Oral 4A-O2 "Instrument developments for the future of mass spectrometry" Chair: Y. Otsuka, Y.-S. Wang				17:15 - 18:00 Closing 4-CL-1700			
				11:25 - 12:40 Oral 4B-O1 "Young researcher session 2" Chair: T. Bamba	12:45 - 13:45 Luncheon Seminar 4B-L-1245 Agilent Technologies, Inc.	13:55 - 15:10 Oral 4B-O2 "Mass spectrometry in agriculture and food science" Chair: A. Oikawa							
Room B Maesato Center Ocean Wing 1st Floor				11:25 - 12:40 Oral 4C-O1 "Chemical proteomics /pharmacoproteomics" Chair: W. Wu, J. Adachi	12:45 - 13:45 Luncheon Seminar 4C-L-1245 AMR	13:55 - 15:10 Oral 4C-O2 "Cutting-edge lipidomics technology and applied research" Chair: T. Bamba, K. Ekroos							
Room C Top of Yaima Ocean Wing 12th Floor													
Poster & Exhibition Maesato East, Foyer Ocean Wing 1st & 2nd Floor			9:15 - 10:15 Poster 4P-AM	10:15 - 11:15 Poster 4P-AM	8:15 - 17:15 Exhibitions by Sponsors	8:15 - 17:15 Poster Display		15:15 - 16:15 Poster 4P-PM	16:15 - 17:15 Poster 4P-PM				
			Core Time (Odd Number)	Core Time (Even Number)				Core Time (Odd Number)	Core Time (Even Number)				
Garden								15:15 - 17:15 Poster (4P-AM & 4P-PM)					

Program

Day 1, June 22 (Sun.)

Room A (Maesato West)

〈Award Lecture〉

[1-AW] MSSJ Award Lectures

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(13:50 ~ 14:50) Chair: Yasushi Ishihama (Kyoto University)

- 1-AW-1350 Mass Spectrometry Studies on Higher-Order Structure of Biomacromolecules (Yokohama City Univ.) °Satoko Akashi
- 1-AW-1410 Development and application of highly sensitive metabolomics analysis using LC/MS (Kyushu Univ.) °Yoshihiro Izumi
- 1-AW-1430 Development of Thin metal Film formation Method For Surface-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging (Toyama Pref. Univ.) °Issey Osaka

〈Plenary Lecture〉

[1-PL] Plenary Lecture I

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(15:10 ~ 16:10) Chair: Michisato Toyoda (The University of Osaka)

- 1-PL-1510 Advancing the Study and Practical Use of Microalgae Euglena (¹Euglena / RIKEN Baton Zone / Tohoku Univ. / UTM / UGM, ²Euglena / RIKEN Baton Zone, ³RIKEN Baton Zone / RIKEN CSRS / Yokohama City Univ. / Nagasaki Univ.) °Kengo Suzuki¹, Koji Yamada², Keiichi Mochida³

Room B (Maesato Center)

〈Award Lecture〉

[1-AW] MSSJ Award Lectures

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(13:50 ~ 14:50) Chair: Yasushi Ishihama (Kyoto University)

- 1-AW-1350 Mass Spectrometry Studies on Higher-Order Structure of Biomacromolecules (Yokohama City Univ.) °Satoko Akashi
- 1-AW-1410 Development and application of highly sensitive metabolomics analysis using LC/MS (Kyushu Univ.) °Yoshihiro Izumi
- 1-AW-1430 Development of Thin metal Film formation Method For Surface-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging (Toyama Pref. Univ.) °Issey Osaka

〈Plenary Lecture〉

[1-PL] Plenary Lecture I

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(15:10 ~ 16:10) Chair: Michisato Toyoda (The University of Osaka)

- 1-PL-1510 Advancing the Study and Practical Use of Microalgae Euglena (¹Euglena / RIKEN Baton Zone / Tohoku Univ. / UTM / UGM, ²Euglena / RIKEN Baton Zone, ³RIKEN Baton Zone / RIKEN CSRS / Yokohama City Univ. / Nagasaki Univ.) °Kengo Suzuki¹, Koji Yamada², Keiichi Mochida³

Day 1, June 22 (Sun.)

Room C (Top of Yaima)

〈Award Lecture〉

[1-AW] MSSJ Award Lectures

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(13:50 ~ 14:50) Chair: Yasushi Ishihama (Kyoto University)

- 1-AW-1350 Mass Spectrometry Studies on Higher-Order Structure of Biomacromolecules (Yokohama City Univ.) °Satoko Akashi
- 1-AW-1410 Development and application of highly sensitive metabolomics analysis using LC/MS (Kyushu Univ.) °Yoshihiro Izumi
- 1-AW-1430 Development of Thin metal Film formation Method For Surface-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging (Toyama Pref. Univ.) °Issey Osaka

〈Plenary Lecture〉

[1-PL] Plenary Lecture I

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(15:10 ~ 16:10) Chair: Michisato Toyoda (The University of Osaka)

- 1-PL-1510 Advancing the Study and Practical Use of Microalgae *Euglena* (°*Euglena* / RIKEN Baton Zone / Tohoku Univ. / UTM / UGM, °*Euglena* / RIKEN Baton Zone, °RIKEN Baton Zone / RIKEN CSRS / Yokohama City Univ. / Nagasaki Univ.) °Kengo Suzuki¹, Koji Yamada², Keiichi Mochida³

〈Poster Presentations〉

Room P (Maesato East, Foyer, Ocean Wing)

[1P-PM] Poster Session 1P-PM

Poster Display: 13:00 ~ 18:15

Core time (Odd numbers): 16:15 ~ 17:15

Core time (Even numbers): 17:15 ~ 18:15

#For welcome mixer participants, the poster removal time is preferably at 20:00.

- 1P-PM-01 Development of silicone oil detection method in pharmaceutical freeze dryer using EI-QMS with pulsed gas injection system (°ATONARP INC., °Osaka Univ.) °Kozue Asakura¹, Hirofumi Nagao^{1,2}
- 1P-PM-02 A Proteomic Study of Coffee Beans with Different Postharvest Processing Methods (°BCST NCYU, °ITFA NCYU) °Tai-Wei Wu¹, Han-Ju Chien^{1,2}
- 1P-PM-03 Rapid analysis of oligonucleotides and the impurities with acoustic ejection system coupled with high resolution mass spectrometry (AE-HRMS) (SCIEX) °Kaoru Karasawa
- 1P-PM-04 Mass++ ver.4 Gold, an official release of open-source MS data viewer (°Mass++ Users Group, °Trans-IT, °RIKEN, °Human Metabolome Technologies, °The Noguchi Inst., °Niigata Univ., °Mass Soft, °Showa Univ., °Kitasato Univ.) °Satoshi Tanaka^{1,2}, Masaki Murase¹, Masaki Kato^{1,3}, Hiroyuki Yamamoto^{1,4}, Masaaki Matsubara^{1,5}, Yushi Takahashi^{1,6}, Tsuyoshi Tabata^{1,7}, Maiko Kusano^{1,8}, Shin Kawano^{1,9}, Shujiro Okuda⁶, Akiyasu Yoshizawa^{1,6}
- 1P-PM-05 Development of Metal Thin Films Using Mist CVD as Ionization-Facilitating Materials for SALDI/MS Analysis of Lipids and Synthetic Polymers (°Toyama Prefectural University, °NIT, Ishikawa College) °Riko Takata¹, Yuji Nakabayashi², Yuki Kato¹, Issey Osaka¹
- 1P-PM-06 Metabolome Analysis of Juvenile Corals using a Comprehensive Two-Dimensional Gas Chromatography High-Resolution Time-of-Flight Mass Spectrometry for Calcification-Related Compounds (°JEOL, °Kitasato Univ., °AIST, °Okayama Univ., °Univ. Ryukyus) °Azusa Kubota¹, Ayumi Kubo¹, Masaaki Ubukata¹, Nanami Mizusawa², Mariko Iijima³, Yoshikazu Ohno⁴, Jun Yasumoto⁵, Ko Yasumoto²

Day 1, June 22 (Sun.)

- 1P-PM-07 Thin-section- and Matrix-free Mass Spectrometry Imaging: Platinum-coated Porous Plate Formed of Glass-beads (Transfer Plate) Realizes Various Sample Preparation (¹Hamamatsu Photonics, ²GPI) °Takamasa Ikeda^{1,2}
- 1P-PM-08 ☆BIOSP-Based Multi-Scale Proteomics Decodes the Adipose-Brain Axis in Obesity (BMS CITYU) °Rui Qian, Fenglian Yang, Liang Zhang
- 1P-PM-09 Comprehensive metabolomic profiling method for disease by non-target LC/IM/MS/MS (¹Toyama PU, ²Kanazawa Univ, ³Toyama-PU) °Ei Horiuchi¹, Shigehiro Karashima², Issey Osaka³
- 1P-PM-10 ☆Structural analysis of recombinant adeno-associated virus capsids using hydrogen/deuterium exchange mass spectrometry (Osaka Univ.) °Tomohiko Ikeda, Yuki Yamaguchi, Mitsuko Fukuhara, Yasuo Tsunaka, Aoba Matsushita, Tetsuo Torisu, Susumu Uchiyama
- 1P-PM-11 A Proteomic Study of the Impact of Roasting Stages on Natural Coffee Beans (¹NCYU, ²ITFA) °Dun-Xuan Wang¹, Han-Ju Chien^{1,2}
- 1P-PM-12 The [M-H]⁺ Formation of 4-Substituted-1-(methoxymethyl)benzene Derivatives under Positive Fast Atom Bombardment Ionization (¹Mukogawa Women's Univ., ²Osaka Research Institute of Industrial Science and Technology) °Shizuyo Horiyama¹, Motohiro Shizuma²
- 1P-PM-13 ☆Membrane Proteomic Analysis Revealed Resistant Mechanisms of Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitors In Lung Cancer Cells (¹NTU, ²TMU) °Yu Teng Jheng¹, Chia Li Han²
- 1P-PM-14 ☆Direct sampling mass spectrometry of samples on a petri dish using sheath-flow probe electrospray ionization (sfPESI) (Univ. of Yamanashi) °Yuta Hase, Kenzo Hiraoka, Lee Chuin Chen, Satoshi Ninomiya
- 1P-PM-15 Comparison of rare earth elements as impurities in gadolinium-based contrast agents (GBCAs) (¹Guerbet, ²Gunma University) °Yuma Ohashi¹, Naoki Kato¹, Yoshito Tsushima²
- 1P-PM-16 ☆Development of Hexafluoro-2-propanol-Free LC/MS Method for Oligonucleotide Analysis (¹Univ. Osaka, ²Univ. Osaka Shimadzu Lab., ³Shimadzu Corp.) °Takashi Miyazaki^{1,2,3}, Natsuyo Asano³, Takao Yamaguchi¹, Satoshi Obika¹
- 1P-PM-17 A Novel Benchtop MALDI-TOF/TOF Platform for Top-Down Protein Characterization (¹BRUKERSG, ²BRUKER, ³BRUKERDAL) °Wen Donq Looi¹, Sergei Dikler², Arndt Asperger³
- 1P-PM-18 ☆Multi-omics analysis of CHO cells for improvement of monoclonal antibody production process (AGC Inc.) °Shigenori Takeda, Yumi Yamanaka, Kana Tanabe, Yasuhiro Kawano, Nobuyoshi Nagao
- 1P-PM-19 ☆Glycoproteomic Characterization of Colorectal Cancer FFPE Tissue Sections. (Yokohama City Univ.) °Manato Oishi, Daisuke Takakura, Nana Kawasaki
- 1P-PM-20 Sequential plasma metabolome and proteome analyses to develop a novel monitoring strategy for patients with epithelial ovarian cancer (¹INGEM, Tohoku Univ., ²ToMMo, Tohoku Univ., ³Grad. Sch. Med., Tohoku Univ.) °Eiji Hishinuma^{1,2}, Shogo Shigeta³, Naomi Matsukawa², Yasunobu Okamura^{1,2}, Ikuko Motoike², Kengo Kinoshita^{1,2}, Seizo Koshiba^{1,2}, Muneaki Shimada^{1,2,3}
- 1P-PM-21 Development of the Workflow for PFAS Analysis in Plating Films Using LC-MS/MS (Shimadzu) °Kota Ishioka, Ryo Yamaguchi, Junichi Masuda
- 1P-PM-22 Optimizing Sequence Coverage for Modified Oligonucleotides: A Study Using CID MS/MS and Ion Mobility (Nihon Waters) °Taiji Kawase, Tatsuya Ezaki, Kenji Hirose
- 1P-PM-23 ☆Identification and quantification of host cell proteins in recombinant adeno-associated virus by data-independent acquisition mass spectrometry (Osaka Univ.) °Yuma Furuta, Yuki Yamaguchi, Yasuo Tsunaka, Mitsuko Fukuhara, Tetsuo Torisu, Susumu Uchiyama
- 1P-PM-24 ☆Increasing the Flexibility of Electrospray Ionization Mass Spectrometry by Introduction of Multiple Modifier Vapors (NTHU CHEM) °Ying-Rong Hwang, Decibel Elpa, Pawel Urban
- 1P-PM-25 ☆Large-scale profiling of protease and proteolysis in non-small cell lung cancer cell lines using protein terminomics (¹Kyoto Univ., Japan, ²Niigata Univ., Japan) °Risa Chisaka¹, Yuto Taniguchi¹, Tatsuya Sagawa¹, Kaho Takamuro¹, Ayana Tomioka¹, Hiroshi Nishida¹, Shujiro Okuda², Yasushi Ishihama¹

Day 1, June 22 (Sun.)

- 1P-PM-26 Identification of Pannexin-3 as a Missing Protein in the Human Proteome Using Liquid Chromatography-Tandem Mass Spectrometry (¹KBSI_DORC, ²KMU_DBC, ³KMU_ARI, ⁴KBSI_BRC, ⁵KRIBB, ⁶UST) °Hae Min Ju¹, Kyung Hee Kim^{2,3}, Soojin Park⁴, Jin Young Kim^{1,5}, Heeyoun Hwang^{1,6}
- 1P-PM-27 Eco-friendly agents for mitigating *Schistosoma mansoni* infection: bioassay-guided identification and mass spectrometry analysis (¹UniSC/CBI, ²UniSC/SSTE, ³QIMR, ⁴StFX) Conor Fogarty^{1,2}, Saowaros Suwansa-ard^{1,2}, Phong Phan¹, Donald McManus³, Mary Duke³, Russell Wyeth⁴, Scott Cummins^{1,2}, °Tianfang Wang^{1,2}
- 1P-PM-28 Comparison of Amino Acid Analyzer and Triple Quadrupole LC-MS/MS for the Analysis of Biological Free Amino Acids (Tottori Univ.) °Mizuki Yokono
- 1P-PM-29 ☆Medium-molecular-weight Metabolomics Platform with a Focus on Peptides, Developed Based on Capillary Electrophoresis-Mass Spectrometry (HMT) °Tomoaki Nitta, Kazunori Sasaki, Hiroyuki Yamamoto, Hajime Tomatsu, Kenjiro Kami
- 1P-PM-30 ☆Proteomic Profiling of Serum Extracellular Vesicles Reveals RARRES2 as a New Potential Biomarker for PCOS Detection (¹School of Nutrition and Health Sciences, TMU, ²Research Center of Nutritional Medicine, TMU, ³Graduate Institute of Cancer Biology and Drug Discovery, TMU, ⁴PhD Program for Cancer Molecular Biology and Drug Discovery, TMU, ⁵Graduate Institute of Medical Sciences, NDMC, ⁶Department of Research and Development, NDMC) °Jun Yi Chong¹, Shih-Min Hsia^{1,2}, Tsui-Chin Huang^{3,4}, Hsin-Yi Chang^{5,6}
- 1P-PM-31 Efficient Exosome Enrichment from Urine Using Polyethylene Glycol (¹CNU, ²Chungnam National Univ.) °Jonggil Won¹, Jeongkwon Kim²
- 1P-PM-32 ☆Characterizing Microglia in Alzheimer's Disease (AD) and Cerebral Amyloid Angiopathy (CAA) with MALDI HiPLEX-IHC (¹Doshisha Univ., ²Bruker Japan, ³JASRI/Spring-8, ⁴BBAR) °Naoki Tsujimura¹, Rikuya Yoshimura¹, Takashi Nirasawa², Yumiko Toyama¹, Maiko Okamura¹, Masato Hoshino³, Shuji Yamashita¹, Yuko Saito⁴, Shigeo Murayama⁴, Kazuhiro Irie¹, Masaya Ikegawa¹
- 1P-PM-33 ☆Spatial Lipidomics Mapping in 3D Cell Models via DESI Mass Spectrometry Imaging (Chang Gung Univ.) °Chen Yu Chang, Cheng Hung Yang
- 1P-PM-34 ☆A Novel 18O-Labeled Water Approach for Investigating Intracellular Nucleotide Synthesis Kinetics (¹Kyoto Univ., ²Kwansei Gakuin Univ.) °Ryoma Kizu^{1,2}, Ikuko Yao², Yuki Sugiura¹
- 1P-PM-35 ☆Extraction and Analysis of Metabolites from Bacillus anthracis Spores Using GC-MS (CNU) °Yongju Jo
- 1P-PM-36 ☆Ketogenic diet promotes muscular endurance by altering muscle fiber composition in gastrocnemius not soleus muscle (¹GILS National Defense Medical Center, ²PhD Program for CBDD Taipei Medical Univ., ³CBDD Taipei Medical Univ., ⁴GIMS National Defense Medical Center) °Cheng-Yi Ma¹, Tsui-Chin Huang^{2,3}, Hsin-Yi Chang⁴
- 1P-PM-37 ☆Native Digestion-Based Sample Preparation for Plasma Proteomics (¹Kyoto Univ., ²NIBIOHN) °Hirotoshi Kakiuchi¹, Ayana Tomioka¹, Kosuke Ogata¹, Eisuke Kanao^{1,2}, Yasushi Ishihama^{1,2}
- 1P-PM-38 ☆Mitochondrial Acetyl-CoA Potentiates Beige Adipocyte Thermogenesis through BNIP3-mediated Mitophagy (¹CBDD, TMU, ²PhD Program for CBDD, TMU, ³Master Program in Clinical Genomics and Proteomics, TMU, ⁴Medical Sciences, NDMC, ⁵Department of Research and Development, NDMC) °Yii-Jwu Lo^{1,2}, Tsui-Chin Huang^{1,2,3}, Hsin-Yi Chang^{4,5}
- 1P-PM-39 **Withdrawn**
- 1P-PM-40 ☆Mass Spectrometry of Dimethyl Sulfide Oxidation Products Formed in Atmospheric Pressure Corona Discharges (Yokohama City Univ.) °Yuta Hamamoto, Kanako Sekimoto
- 1P-PM-41 ☆Metabolic signatures of prenatal exposure to 'Cocktails' of benzotriazoles and benzothiazoles and its health implications (¹SJTU, ²HKBU) °Yanqiu Zhou^{1,2}
- 1P-PM-42 ☆Spatial multi-omics study delineates possible link between copper dyshomeostasis and macrophage driven inflammation in Dilated Cardiomyopathy (¹Doshisha Univ., ²SHIMADZU, ³Kyoto Univ., ⁴NCNP, ⁵NCVC, ⁶Hokusetsu General Hospital) °Maiko Okamura¹, Koji Okuda², Shinichi Yamaguchi², Takushi Yamamoto², Kenji Minatoya³, Shuji Yamashita¹, Ichizo Nishino⁴, Hatsue Ishibashi-Ueda^{5,6}, Masaya Ikegawa¹

Day 1, June 22 (Sun.)

1P-PM-43 ☆Gas-Phase Photoelectron Spectroscopy and Reactivity of the Phenylacetylde PhCC and Copper Bis(phenylacetylde) [Cu(CCPH)₂] Anions (¹unimelb, ²PNNL) °Howard Ma¹, Wenjin Cao², Yufei Xie¹, Xue-Bin Wang², Richard O'hair¹

1P-PM-44 ☆Reliability on MS image of citric acid distribution in a strawberry fruit specimen created using positive/negative ion mode associated with potassium distribution (¹Hokkaido Univ., ²Shimadzu) °Takumi Fujiki¹, Kaoru Nakagawa², Koji Okuda², A. Tanabe², M. Kiyama², Manami Kobayashi², Takashi Suzuki¹

1P-LB-06 Analysis of Sulfated N-glycans as a Potential Biomarker for the Early Detection of Breast Cancer (¹Hokkaido Univ., ²De La Salle Univ., ³Addis Ababa Univ) °Dereje Feleke¹, Bryan Montalban², Solomon Gizaw³, Hiroshi Hinou¹

1P-LB-07 Live Single-Cell Mass Spectrometry to Study the Metabolic Mechanisms Behind Triple Negative Breast Cancer Cell Migration. (Leiden Univeristy) °Xiaoyue Huang, Sylvia Le Devedec, Thomas Hankemeier, Ahmed Ali

1P-LB-08 Hierarchical Porous Nanofibers Containing Zeolitic-Imidazolate Frameworks and Hydroxyapatite Nanoparticles for Efficient Atmospheric Pollution Control (¹Pusan University, ²Pusan Univ., ³PNU, ⁴Pusan Univ.(PNU)) °Changyun Kim¹, Kwonho Jang², Sungkyun Park³, Kanghyun Park⁴

1P-LB-09 Developing Multiple Biomarkers of Human Lung Cancer Using Multiomics. (NTOU) °Fang-Hsuan Chang

1P-LB-10 New Concept for Detection of charge and m/z of Multiply Charged Particles with High Signal Gain (¹Ningbo University, ²South-east University) Dongdong Zhou¹, Baiyu Chen², Mei Xiao², °Li Ding¹

1P-LB-11 Development of a sheathless CE-MS method for limited sample volume (Keio Univ.) °Akiyoshi Hirayama, Yushi Kamei

1P-LB-12 MALDI-Spiral-TOFMS Analysis of Photochromic Diarylethene Derivatives with Labile Groups and Their Photopolymerization Reactions (NAIST) °Taichi Muto, Kaho Irie, Chigusa Goto, Yoshiko Nishikawa, Tsuyoshi Kawai

⟨Late Breaking Posters⟩

[1P-LB] Late Breaking Posters

Poster Display : 13 : 00 ~ 18 : 15

Core time (Odd numbers) : 16 : 15 ~ 17 : 15

Core time (Even numbers) : 17 : 15 ~ 18 : 15

#For welcome mixer participants, the poster removal time is preferably at 20 : 00.

1P-LB-01 Measurement of Metals in Human Liver Using LA-ICP-MS and an Organic Matrix-Based Standard (¹Agilent, ²Kyoto Univ., ³Tokushima Univ.) °Tetsuo Kubota¹, Yuki Sugiyura², Koichi Tsuneyama³

1P-LB-02 Rapid Analysis of Psychotropic Drugs and Metabolites in Urine Using Thermal Desorption Electrospray Ionization Mass Spectrometry (¹Hanyang Univ., ²FGC, SPO Korea, ³NSY-SU) °Kyunghwa Kee¹, Jinyoung Kim², Jaechul Cheong², Namhee Kwon², Jentaie Shiea³, Hye-hyun Yoo¹

1P-LB-03 Versatile Mass Spectrometry : In-House RGA and Portable MS for Expanding Molecular Analysis Capabilities (¹Sogang Univ., ²Affiliation 1, ³Affiliation 2) °Seungho Ha¹, Han Bin Oh², Dong Young Lim³

1P-LB-04 Proteomic analysis of corneal layers after trigeminal denervation: insights into inflammation and intracellular clearance in the epithelium, stroma, and endothelium (¹NTUH, ²NTU) °Pei-Shan Wu¹, I-Lan Tsai¹, Miao-Hsia Lin², Hsin-Yu Liu¹

1P-LB-05 Decoding O-Antigen Substructures in Pathogenic *E. coli* O111: Insights from MALDI Glycotyping of Cell Culture and Commercial LPS (Hokkaido Univ.) °June Chelyn Lee, Shogo Urakami, Hinou Hiroshi

Day 2, June 23 (Mon.)

Room A (Maesato West)

〈Plenary Lecture〉

[2-PL] Plenary Lecture II

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:30 ~ 9:30) Chair: Yasushi Ishihama (Kyoto University)

2-PL-0830 Exploiting the Mass Spectrometry Toolkit for Biomedical Discoveries and Clinical Translation (Mayo Clinic)
°Akhilesh Pandey

〈Oral Sessions〉

[2A-01] Current Issues in Polymer Material Characterization and Recent Approaches with Mass Spectrometry

(11:40 ~ 12:55) Chair: Takaya Satoh (JEOL) / Shogo Yamane (AIST)

2A-01-1140 Detection of Different Additives from Evolved Gas Analysis-Mass Spectrometry Data Using Two-dimensional Correlation Spectroscopy (AIST) °Shogo Yamane, Yasumasa Suzuki, Hideyuki Shinzawa

2A-01-1155 Analysis of Highly Multiply Charged Intact Polymers in Cyclic Ion Mobility-Mass Spectrometry with Collision Induced Charge Stripping (NITech) °Isa Guducu, Iiguni Yoshinori, Shinya Kitagawa

2A-01-1210 Structural Analysis of EO-PO Copolymers Using LC-QTOF MS (Aichi Pref.) °Goro Funakoshi

2A-01-1225 (3P-AM-43) ☆ An Ambient Microwave Plasma Torch Desorption/Ionization Mass Spectrometry (MPT-MS) Strategy for Microplastic Detection (Zhejiang Univ.) °Qing Li, Weiwei Chen, Fengjian Chu, Jing Luo, Hongru Feng, Yuanjiang Pan

2A-01-1240 Multifaceted degradation evaluation of PET bottles subjected to outdoor exposure test (°JEOL, °The Council for PET Bottle Recycling) °Takaya Satoh¹, Azusa Kubota¹, Chikako Nakayama¹, Yusuke Sakuda¹, Kouji Takahashi², Masahiko Asano²

〈Luncheon Seminar〉

[2A-L] Luncheon Seminar (Presented by Thermo Fisher Scientific)

(13:00 ~ 14:00)

2A-L-1300 ADVANCEMENTS IN TECHNOLOGY THAT REVEAL BIOLOGICAL INSIGHTS INTO DISEASE MECHANISMS AND CLINICAL RESEARCH OUTCOMES (°Academia Sinica, °Thermo Fisher Scientific) °Yu-Ju Chen¹, Maciej Bromirski²

〈Oral Sessions〉

[2A-02] AOMSC Special Session

(14:10 ~ 15:25) Chair: Tomoya Kinumi (AIST)

2A-02-1410 [Invited]Deciphering PM_{2.5}-disrupted Energy Metabolism via Mass Spectrometry Analysis (HKBU) °Zhu Yang

2A-02-1425 [Invited]Ion behavior in the Evaporating Charged Droplets Generated by Electrospray Ionization (POSTECH) Seongjae Jang, Minsu Kim, °Jongcheol Seo

2A-02-1440 [Invited]LncRNA HIFCAR Sequesters ER Resident Protein to Hinder Antigen Presentation Process in Pancreatic Ductal Adenocarcinoma (°R&D, NDMC, °PhD CBDD, TMU, °GIMS, NDMC, °CBDD, TMU) Tze-Ting Kuo^{1,2}, Jia-Jun He³, Bai-Chia Liu⁴, Tsui-Chin Huang^{2,4}, °Hsin-Yi Chang^{1,3}

2A-02-1455 Integrative Structural Mass Spectrometry for Understanding the Protein-Protein/Drug Interaction Dynamics (SYSU) Yuxiang Luo, Minhan Nie, °Huilin Li

2A-02-1510 Quantitative metabolomics for human plasma using stable isotope-labeled internal standard mixture (SILIS) (°MIB, Kyushu Univ., °Kyushu Univ., °AIST, °Taiyo Nippon Sanso, °Keio Univ., °SAIL Technologies) °Masatomo Takahashi^{1,2}, Yuki Soma³, Akari Ikeda⁴, Akiyoshi Hirayama⁵, Kanako Tokito¹, Michiyo Hishikawa⁶, Satsuki Ikeda⁵, Yuri Imado², Tsutomu Terauchi⁶, Takayoshi Matsuda⁶, Yoshihiro Izumi^{1,2}, Takeshi Bamba^{1,2}

Day 2, June 23 (Mon.)

[2A-03] Frontiers in Mass Spectrometry Imaging -Applications-

(15:40 ~ 16:55) Chair: Shuichi Shimma (The University of Osaka)

2A-03-1540 [Keynote] Mass spectrometry imaging to create a Lipidome Atlas (¹Keio Univ., ²WPI-Bio2Q, ³RIKEN-IMS) °Makoto Arita^{1,2,3}

2A-03-1610 Comparative Distribution of Free Eribulin and Eribulin Liposomal Formulation in Mouse Syngeneic Tumors Using Desorption Electrospray Ionization Mass Spectrometry Imaging (¹Eisai, DMPK, ²Eisai, DCV function) °Tomomi Ishida¹, Yuki Niwa², Koichiro Hotta¹, Taro Semba², Yuji Mano¹

2A-03-1625 Hybrid Imaging Analysis reveals molecular localization reflecting brain function (¹Dokkyo Medical Univ., ²QST, ³Tokyo Univ. Pharm. Life Sci., ⁴Univ. Tokyo) °Tadayuki Ogawa¹, Shino Takeda², Tomonari Umemura³, Takafumi Hirata⁴

2A-03-1640 (3P-AM-52) ☆ Exploring the Chemical Communication of Australian Native Flower *Corymbia ficifolia* Using Mass Spectrometry Imaging (¹ESC, GU, ²CMM, UQ, ³QBI, UQ) °Rachel Jackson¹, Brett Hamilton², Robert Sullivan³, Darren Holland¹, Joshua Hayton¹, Anthony Carroll¹

Room B (Maesato Center)

〈Plenary Lecture〉

[2-PL] Plenary Lecture II

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:30 ~ 9:30) Chair: Yasushi Ishihama (Kyoto University)

2-PL-0830 Exploiting the Mass Spectrometry Toolkit for Biomedical Discoveries and Clinical Translation (Mayo Clinic) °Akhilesh Pandey

〈Oral Sessions〉

[2B-01] Young Researcher Session 1

(11:40 ~ 12:55) Chair: Kohta Nakatani (Niigata University) / Chao-Jung Chen (China Medical University)

2B-01-1140 [Invited] The discovery of clinical disease biomarkers by LC-MS-based global metabolomics (¹China Medical Univ., ²China Medical Univ. Hospit.) °Chao-Jung Chen^{1,2}

2B-01-1155 (3P-AM-49) ☆ Phosphatase reactivity-based profiling of the local environment of phosphorylation sites on proteins (¹Kyoto Univ., ²NIBIOHN) °Yuna Hiranuma¹, Kosuke Ogata¹, Yasushi Ishihama^{1,2}

2B-01-1210 (3P-AM-51) ☆ First Look at the Integrated Phospholipid Metabolism in an Insect Endosymbiosis (¹NIBB, ²Keio University, ³RIKEN IMS) °Dolma Michellod¹, Kathrine Tan¹, Makoto Arita^{2,3}, Shuji Shigenobu¹

2B-01-1225 (3P-AM-15) ☆ Development and Applications of Portable Gas Chromatograph-Mass Spectrometer System with Built-in Preconcentrator (¹Graduate School of Science, Osaka Univ., ²College of Science, NTNU) °Ping Chen^{1,2}, Tsung-Han Lee², Chia-Jung Lu², Michisato Toyoda¹

2B-01-1240 (3P-AM-04) ☆ Chiral Recognition by Mass Spectrometry with the Combinations of Two Chiral Selectors (¹PolyU, ²CityU) °Qi Yi¹, Yiqi Sheng², Chi-Kit Siu², Zhong-Ping Yao¹

〈Luncheon Seminar〉

[2B-L] Luncheon Seminar (Presented by Waters Corporation)

(13:00 ~ 14:00)

2B-L-1300 Impact of viral protein stoichiometry on the biological activity of virus vector for gene therapy (The Univ. of Osaka) °Susumu Uchiyama

Day 2, June 23 (Mon.)

〈Oral Sessions〉

[2B-02] Environmental Pollution and Its Effects Evaluation

(14:10 ~ 15:25) Chair: Atsushi Yamamoto (Tottori University of Environmental Studies) / Runzeng Liu (Shandong University)

2B-02-1410 [Keynote]The Release of Dye and Microplastic-Related Chemicals into Nature by Humans: How Much is Discharged, and What Are Their Global Effects? (KNU) °Sunghwan Kim

2B-02-1440 [Invited]Synthetic Antioxidants as New Pollutants Revealed by Mass Spectrometry: From Environmental Occurrence to Human Exposure (Shandong Univ.) °Runzeng Liu, Xiaoxia Feng, Xiaomeng Ji

2B-02-1455 [Invited]Bacteria in the atmosphere: Insights into their production and transformation of biological and organic matter in cloud water (¹SEE CityUHK, ²SRI CityUHK, ³SKLMEH) °Theodora Nah¹,²,³, Yushuo Liu¹,², Chee Kent Lim¹, Zhiyong Shen¹, Patrick Lee¹,³

2B-02-1510 Investigating the Health- and Climate-Relevant Chemical Composition of Wildfire Smoke Particles and Marine Aerosols by a Novel On-Line Single Particle Mass Spectrometry Technology (¹Univ. Rostock/HMGU, ²Univ. Eastern Finland/Kuopio, ³Photonion GmbH) Johannes Passig¹, Olli Sippula², Hassib Hakim¹, Annele Virtanen², Mika Ihalainen², Iva Rosewig¹, Robert Irsig³, °Ralf Zimmermann¹

[2B-03] Fundamentals & Emerging Applications of Ionization and Gas Phase Ion Processes - Part I

(15:40 ~ 16:55) Chair: Lee Chuin Chen (University of Yamanashi) / Kanako Sekimoto (Yokohama City University)

2B-03-1540 [Keynote]Exploring Microdroplet Interactions in Electrospray-like Ion Sources (NTHU) °Pawel Urban

2B-03-1610 [Invited]Investigation of Microdroplet Chemistry with Mass Spectrometry (Univ. Nankai) °Xinxing Zhang

2B-03-1625 [Invited]Noninvasive Sampling Devices Combined with Ambient Ionization Tandem Mass Spectrometry for Rapid Characterization of Metabolic Biomarkers, Ingested Medicine, and Abused Drugs in Breath (NSYSU/Taiwan) °Jentaie Shiea

2B-03-1640 [Invited]Masked Reactivity of Hydrated Clusters of Monovalent Manganese Ion: H₂O Insertion vs. N₂O Activation — A DFT Investigation (City U Hong Kong) °Chi-Kit Siu

Room C (Top of Yaima)

〈Plenary Lecture〉

[2-PL] Plenary Lecture II

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:30 ~ 9:30) Chair: Yasushi Ishihama (Kyoto University)

2-PL-0830 Exploiting the Mass Spectrometry Toolkit for Biomedical Discoveries and Clinical Translation (Mayo Clinic) °Akhilesh Pandey

〈Oral Sessions〉

[2C-01] Clinical Mass Spectrometry and Reverse Translational Research -From Diagnostic and Treatment Application to Pathological Analysis- Part I

(11:40 ~ 12:55) Chair: Hsiao-Wei Liao (National Yang Ming Chiao Tung University) / Masamitsu Maekawa (Tohoku University)

2C-01-1140 [Keynote]Quantitative Measurements of Circulating Ceramides as Markers for Cardiometabolic Disorders (Duke-NUS) °Federico Torta

2C-01-1210 Determination of Clonality of Monoclonal Serum Free Light Chains by On-Probe Extraction Coupled with Liquid Chromatography-Mass Spectrometry (¹Stanford Univ, ²Stanford Health Care) Priscilla Yeung¹,², Yajing Liu¹, Ashley Ruan¹, Christina Kerr¹, Run-Zheng Shi¹,², David Iberri¹, °Ruben Luo¹,²

Day 2, June 23 (Mon.)

- 2C-01-1225 Exploring Serum Amyloid A Variant Barcode in Colorectal Cancer by Nano-probe-based Affinity Mass Spectrometry (¹IOC, NTU, ²JZ, ³IOBI, NYCU, ⁴KMUH, ⁵IOC, AS) °Jia-Rong Li¹, Mira dela Rosa², Ping-Song Li², Kun-Pin Wu³, Deng-Chyang Wu⁴, Yu-Ju Chen⁵
- 2C-01-1240 A novel newborn screening modality: Non-targeted proteome analysis using low-cost iron powders (KDRI) °Daisuke Nakajima, Masaki Ishikawa, Ryo Konno, Hideo Sasai, Osamu Ohara, Yusuke Kawashima

⟨Luncheon Seminar⟩

[2C-L] Luncheon Seminar (Presented by BRUKER)

(13:00 ~ 14:00)

- 2C-L-1300 Expanding the world of TIMS-enriched applications - Introduction of new Bruker MS technologies including the timsOmni MS platform (¹Bruker LLC, ²Bruker Singapore, ³Fasmatech) °Mike Greig¹, Wen Donq Looi², Dimitris Papanastasiou³, Athanasios Smyrnakis³, Mariangela Kosmopoulou³, Anastasios Grigoriadis³, Ioannis Orfanopoulos³, Nikolaos Manolis³, Ilias Panagiotopoulos³, Rafail Gioves³, Alexandros Lekkas³

⟨Oral Sessions⟩

[2C-02] Clinical Omics / Biomarker Development

(14:10 ~ 15:25) Chair: Yu-Ju Chen (Academia Sinica) / Peter Hoffmann (University of South Australia)

- 2C-02-1410 [Keynote] Mapping Nanoscale-to-Single Cell Proteome Landscape and Beyond towards Precision Oncology (Academia Sinica) °Yu-Ju Chen
- 2C-02-1425 [Invited] Prognostic MALDI-MSI: Predicting Chemotherapy Responses and Identifying Metastasis in Gynecological Cancers (¹UniSA, ²RAH) °Peter Hoffmann¹, Parul Mittal¹, Manuela Klingler-Hoffmann¹, Martin Oehler²
- 2C-02-1440 (3P-PM-41) ☆ Proteome-Wide Degron Screening (¹UNSW, ²UTS) °Jake Viola¹, Suhyeon Kwon¹, Priyanka Kundu¹, Connor Phillips², William Donald¹

- 2C-02-1455 Specific Enhancement of Neoantigen Presentation by Targeted Proteasomal Degradation (¹SiGN, A*STAR, ²NUS) °Ilisia Ow^{1,2}, Amanda Lee¹, Justin Low¹, Wei Wu^{1,2}

- 2C-02-1510 (3P-PM-16) ☆ Advancing Bottom-up Proteomics with Protease Type XIII from *Aspergillus saitoi* (¹Kyoto Univ., ²SHIONOGI, ³NIBN) °Ryota Tomioka^{1,2}, Ayana Tomioka¹, Kosuke Ogata¹, Yasushi Ishihama^{1,3}

[2C-03] Advanced Technology in Proteomics

(15:40 ~ 16:55) Chair: Miao-Hsia Lin (National Taiwan University) / Naoyuki Sugiyama (National Cerebral and Cardiovascular Center)

- 2C-03-1540 [Keynote] Decoding functional signalling with personalized phosphoproteomics (¹Murdoch Children's Research Institute (MCRI), ²Charles Perkins Centre, University of Sydney, ³Cardiovascular Epidemiology Unit, University of Cambridge, ⁴Flinders Health and Medical Research Institute, ⁵Section of Molecular Physiology, University of Copenhagen) °Sean Humphrey¹, Elise Needham³, Magnus Leandersson⁵, Hannah Huckstep¹, Janni Petersen⁴, David James², Jorgen Wojtaszewski⁵

- 2C-03-1555 A Methanolic Urea-enhanced Protein Extraction Enabling the Largest Bacterial Protein O-Phosphorylation Atlas (¹NTU, ²Kyoto Univ., ³NIBIOHN) Pei-Shan Wu^{1,2}, Ting-An Chen¹, Yasushi Ishihama^{2,3}, °Miao-Hsia Lin^{1,2}

- 2C-03-1610 Chromatography to the Rescue - Confident Differentiation Between Citrullination and Deamidation in Bottom-up Proteomic Experiments (U. of Manitoba) °Oleg Krokhine

- 2C-03-1625 Development of a Non-Target Analysis Method for Isomeric Peptides in LC-IM-TOFMS (NITech) °Shinya Kitagawa, Reina Ogawa, Rio Suzumura, Takehiro Hirose, Yosinori Iiguni

- 2C-03-1640 (4P-AM-47) ☆ Proteome-Wide Profiling of Protein Structural Dynamics by Phospho-Probing with Multiple Kinases (¹Kyoto Univ., ²NCVC, ³NIBIOHN) °Asato Maeda¹, Kosuke Ogata¹, Naoyuki Sugiyama^{1,2}, Yasushi Ishihama^{1,3}

Day 2, June 23 (Mon.)

⟨Poster Presentations⟩

Room P (Maesato East, Foyer, Ocean Wing)

[2P-AM] Poster Session 2P-AM

Poster Display : 8 : 15 ~ 19 : 00

Core time (Odd numbers) : 9 : 30 ~ 10 : 30

Core time (Even numbers) : 10 : 30 ~ 11 : 30

- 2P-AM-01 Development of New Crystalline Sponges with Solvent and Vacuum Resistance (¹The Univ. of Tokyo, ²IMS, ³Daicel Corp.) °Sota Sato^{1,2}, Keisuke Gondo³, Tomoko Adachi³
- 2P-AM-02 ☆ The remarkable but varied photosensitized oxidation by atmospheric humic-like substances at the air-water interface (Nankai Univ.) °Xufeng Gao, Xinxing Zhang
- 2P-AM-03 ☆ Overcoming Neoadjuvant Chemotherapy Resistance by Clinical Phosphoproteomics of Colorectal Cancer Liver Metastasis (¹NIBIOHN, ²Kyoto Univ. Gastrointestinal surg., ³Ujitoku, ⁴JFCR, ⁵Kyoto Univ. Pharmaceutical Sci.) °Akina Shinkura^{1,2}, Satoshi Muraoka¹, Narimi Takaai¹, Yoko Takada¹, Masayo Hirano¹, Satoshi Nagayama^{3,4}, Yu Takahashi⁴, Yosuke Fukunaga⁴, Kazutaka Obama², Jun Adachi^{1,5}
- 2P-AM-04 ☆ High Electric Fields on Water Microdroplets Catalyze Spontaneous and Fast Reactions in Halogen-Bond Complexes (Nankai Univ.) °Chenghui Zhu, Xinxing Zhang
- 2P-AM-05 Paleoenvironmental Reconstruction Using Sulfur Isotope Compositions in Sedimentary Rocks (Univ. Tsukuba) °Teruyuki Maruoka
- 2P-AM-06 Wide-target Lipidomic Analysis Reveals Novel Functionalities of Edible Insects (¹Agilent, ²Setunan University) °Kyoko Yasuda¹, Takeshi Serino¹, Mami Ando², Yoshichika Hirahara²
- 2P-AM-07 ☆ SIZE-DEPENDENT PULMONARY TOXICITY AND WHOLE-BODY DISTRIBUTION OF INHALED MICRO/NANO PLASTIC PARTICLES IN MALE MICE FROM CHRONIC EXPOSURE (HKBU) °Leijian Chen
- 2P-AM-08 ☆ Rapid Quantification of Free Aromatic Amines and Related Metabolites in Human Urine Using LC-MS/MS (NYCU) °Yuanzhang Hsu, Guorjien Wei
- 2P-AM-09 *De Novo* Structural Elucidation of Cnidarian Metabolites by Non-Targeted LC-ESI-MS/MS (¹OIST, ²Kyushu Univ., ³Osaka Univ., ⁴Miruion Inc.) °Yayoi Hongo¹, Hiroshi Watanabe¹, Kenji Hamase², Chiharu Ishii², Shuichi Shimma^{3,4}, Hiromi Saito⁴
- 2P-AM-10 Development of Global Machine Learning Models for Understanding Retention Mechanisms and Predicting Retention Time in Supercritical Fluid Chromatography/Mass Spectrometry (¹Kyushu Univ., ²Div. of Metabolomics, MIB, Kyushu Univ.) °Omidreza Heravizadeh¹, Kohta Nakatani^{1,2}, Noriyuki Tomiyasu², Taihei Torigoe², Toshiyuki Yamashita², Masatomo Takahashi^{1,2}, Yoshihiro Izumi^{1,2}, Takeshi Bamba^{1,2}
- 2P-AM-11 ☆ Comprehensive structural annotation of unidentified hydrophilic metabolites based on LC/HRMS/MS and in silico epimetabolite database (IEMDB) (¹MIB, Kyushu Uni., ²SLS, Kyushu Uni., ³AIST) °Taihei Torigoe¹, Masatomo Takahashi^{1,2}, Omidreza Heravizadeh², Kazuki Ikeda¹, Kohta Nakatani^{1,2}, Yuki Soma³, Takeshi Bamba^{1,2}, Yoshihiro Izumi^{1,2}
- 2P-AM-12 ☆ Multiphysics Numerical Modeling of Ion Transport Dynamics in a Photoionization Mass Spectrometry Setup (USTC) °Zhiwei Wen, Jiuzhong Yang, Chengyuan Liu, Minggao Xu, Yang Pan
- 2P-AM-13 ☆ Determination of parabens, bisphenol A, and benzophenone-UV filters in milk powder by SPE and UHPLC-MS/MS (¹NYCU, ²NYC University) °Shabir Ahmad¹, Yu-Fang Huang²
- 2P-AM-14 ☆ Matrix-Enhanced SALDI Imaging of Consecutive Tape Strips for Visualizing Skin Penetration of Cosmetic Ingredients (KOSÉ Corporation) °Yi Lyu, Shunichi Suga, Masatoshi Sekiya, Daiki Yamakoshi, Ken Tanaka, Tsuyoshi Hata
- 2P-AM-15 Investigation of the mechanism of action of Kampo medicines utilizing limited digestion mass spectrometry. (Tsumura) °Masashi Hiramoto, Takashi Matsumoto
- 2P-AM-16 The utility of combining two database search methods to identify phosphoserine and/or phosphothreonine in peptides in phosphoproteomics (¹BRC, Kobe Univ., ²ICMS, Med. Kobe Univ., ³Agric. Sci. Kobe Univ.) °Ken-ichi Yoshino^{1,2}, Miyu Uehara³, Shuji Ueda³
- 2P-AM-17 ☆ Streamlining LC-MS Sample Preparation through 3D Printing Technology (Sogang Univ.) °Hwa-Yong Jang, Han Bin Oh
- 2P-AM-18 Semi-automated detection and identification of multiplex-labeled metabolomics data (¹MKI, ²Taiyo Nippon Sanso, ³Lipidome Lab) °Noritaka Masaki¹, Akari Ikeda², Mei Tanabe², Yasuto Yokoi¹, Takayo Ohto³, Hiroki Nakanishi³

Day 2, June 23 (Mon.)

- 2P-AM-19 Parallel targeted and untargeted metabolite analysis of mouse plasma samples using a benchtop multi-reflecting time of flight mass spectrometer (¹Waters Corp, ²Liverpool Uni) °Jayne Kirk¹, Adam King¹, Lee Gethings¹, Ian Wilson²
- 2P-AM-20 ☆ Multi-omics analyses reveal the potential mechanism of nematode resistance in tomato resistant and susceptible cultivars (¹DBBS, NCKU, ²CSD, TARI, ³CGRBD, TARI) °Ying-An Chen¹, Le Kang², Yuan-Kai Tu³, Ying-Lan Chen¹
- 2P-AM-21 ☆ Phosphoproteomic Analysis Reveals the Role of HAESA in IDA-Mediated Lateral Root Development (¹NCKU, ²IPMB, Sinica) °Li-Hsuan Yu¹, I-Fan Wang¹, Kuan-Hao Huang¹, Chuan-Chih Hsu², Ying-Lan Chen¹
- 2P-AM-22 Mass spectrometry based on a nitrotri-acetic acid affinity probe for the rapid enrichment and comprehensive profiling of cellular porphyrins (¹ToC Academia Sinica, ²FHS Macau Univ, ³DoC NTU) °Mei-Chun Tseng¹, Elias Mernie¹, Rofeamor Obena¹, Fu-Lien Huang², Tzu-Ming Liu², Yu-Ju Chen^{1,3}
- 2P-AM-23 ☆ Investigation of Mode of Action: Sorgolone Analogs Using Metabolomics (¹Kangwon Nat'l Univ., ²Konkuk Univ.) °Jung-Hoon Lee¹, Eun-Song Choi¹, Min-Ho Song¹, Ha-Jin Son², Ji-Yeon Lee², Ji-Woo Yu^{1,2}, Ji-Ho Lee¹
- 2P-AM-24 ☆ Effect of Iprodione on Adult Female and Male Zebrafish based on Hormone and Lipidome Analysis using LC-MS/MS (¹Konkuk Univ., ²Kangwon Nat'l Univ., ³KIT) °Ji-Woo Yu¹, Min-Ho Song², Eun-Song Choi², Jung-Hoon Lee², Jong-Hwan Kim³, Young-Soo Keum¹, Ji-Ho Lee²
- 2P-AM-25 Optimization of probe electrospray ionization-mass spectrometry (PESI-MS) for the analysis of an *in vitro* enzyme reaction system (¹Grad. Sch. IST, Osaka Univ., ²OTRI, Osaka Univ., ³ICBiotech., Osaka Univ., ⁴JSPS, ⁵Shimadzu) °Nobuyuki Okahashi^{1,2}, Takeo Taniguchi¹, Takuma Suzuki^{3,4}, Takanari Hattori⁵, Hidenori Takahashi⁵, Kohsuke Honda^{2,3}, Fumio Matsuda^{1,2}
- 2P-AM-26 Structural Analysis of the Aroma Compounds in the Japanese Pickles by Gas Chromatography Olfactometry Time-of-Flight Mass Spectrometry (JEOL) °Naomi Watanabe, Azusa Kubota, Yoshio Abe, Haruo Iwabuchi, Masaaki Ubukata
- 2P-AM-27 ☆ Application of LC-MS-Based Metabolomics and Proteomics for Bee Pollen Authentication and Food Fraud Prevention (NCHU) °Ya-Ting Pan, Chun-Sheng Wang, Chien-Chen Lai
- 2P-AM-28 ☆ Conformational Dynamics of Beta-Lactamase by Hydrogen Deuterium Exchange Mass Spectrometry (¹CPS-ZJU, ²ABCT-HKPU) °Li-Wen Huang¹, Zhong-Ping Yao²
- 2P-AM-29 ☆ The Relative Affinities of Amino Acids towards Divalent Metal Ions in the Gas Phase (¹PolyU SZRI, ²PolyU) °Xuewei Lin^{1,2}, Qi Yi^{1,2}, Zhong-Ping Yao^{1,2}
- 2P-AM-30 ☆ High-Resolution DIA-Based Proteomic Profiling Uncovers Regional Specialisation in the Human Retina (¹SSI USyd, ²CPC USyd) °Azhar Arafah¹, Ling Zhu¹, Xiaosuo Wang², Mark Gillies¹
- 2P-AM-31 ☆ Noble gas isotope analyses of the volcanic rocks in Ioto island (Iwo-Jima) from the latest eruptions since 2022 (¹Univ. Tokyo, Komaba, ²Univ. Tokyo, RCAST, ³NIED) °Soho Yamamoto¹, Hirochika Sumino², Masashi Nagai³
- 2P-AM-32 ☆ Unique Fragmentation of Indole Alkaloids Induced by Neutral Reactive Species Formed From Microwave Hydrogen and Water Plasma (¹Univ. Melbourne, ²Nagasaki Univ., ³RIKEN, ⁴Shimadzu Corp.) °Jack Li¹, Chris Bowen¹, Bun Chan^{2,3}, Hidenori Takahashi⁴, Richard O'hair¹
- 2P-AM-33 ☆ Biomonitoring of BPA and Parabens In The Urine of Children Aged 6 to 8 Years (¹IFSHRA, NYCU, ²IEOHS, NYCU) °Yu-Xing Cheng¹, Mei-Lien Chen², Yu-Fang Huang²
- 2P-AM-34 ☆ Examining the subcellular localisation of ceramides in mouse tissue using targeted mass spectrometry (¹VCCRI, ²SoCM UNSW Sydney, ³SBMS UNSW Sydney, ⁴Sch UNSW Sydney) °Laura Choong^{1,2}, Sarah Hancock^{1,3}, Amy Nguyen¹, Iliya Dragutinovic⁴, Elysha Taylor⁴, Jonathan Morris⁴, Nigel Turner^{1,3}
- 2P-AM-35 Improvement of Multi-Isotope Analytical Procedure of Extraterrestrial Materials and Its Implications for Material Transport in the Solar Protoplanetary Disk (¹Univ. of Osaka, ²UW-Madison, ³Univ. of Tokyo, ⁴NOAA, ⁵JAMSTEC, ⁶Okayama Univ.) °Kohei Fukuda^{1,2}, Yuki Hibiya³, Craig Kastle⁴, Katsuhiko Suzuki⁵, Tsuyoshi Iizuka³, Katsuyuki Yamashita⁶, Thomas Helser⁴, Noriko Kita²

Day 2, June 23 (Mon.)

- 2P-AM-36 Analysis of Hydrophilic Metabolites in Rice from Different Production Areas (Shimadzu) °Yutaka Umakoshi, Hitomi Tsujihata, Nanami Sakashita, Yuki Sakamoto
- 2P-AM-37 Technical improvement of plant hormone quantification from very small tissues (°RIKEN CSRS, °TEU, °TBRC) °Yumiko Takebayashi¹, Hiromi Suzuki^{1,2}, Masami Hirai¹, Mitsunori Seo^{1,3}
- 2P-AM-38 Maternal and Fetal Nicotine Metabolite Levels: An LC-MS/MS Study on ETS Exposure in the TBPS II Cohort (°NTU EOHS, °IPHS NHRI, °NTCH, °NTU PH, °NTU MED, °NIEHS NHRI) °Sih Yu Chen¹, Mei Huei Chen^{2,3}, Ching Chun Lin¹, Pau Chung Chen^{1,4,5,6}
- 2P-AM-39 ☆ Residue Characteristics and Analytical Assessment of Pesticides in *Heracleum moelendorffii* Hance Using Mass Spectrometry (°Konkuk Univ., °Kangwon Nat'l Univ.) °Ha-Jin Son¹, Ji-Woo Yu^{1,2}, Eun-Song Choi², Jung-Hoon Lee², Hui-Yeon Ahn¹, Geon-Woo Park¹, Ji-Won Shin¹, Ji-Yeon Lee¹, Min-Ho Song², Ji-Ho Lee²
- 2P-AM-40 INSIGHTS INTO DIET AND EXERCISE INDUCED CHANGES IN ZEBRAFISH LIPIDOME VIA LC-MS AND CHEMOMETRIC ANALYSES (°IQ-UFG, °UFLA, °DB-UFPR, °DQ-UFPR) °Andrea Chaves¹, Almir Batista Junior¹, Jussara Roque¹, Lanaia Ítala Maciel¹, Moises Martins², Willian Carneiro², André Viana³, Luis David Murgas², Ricardo Bernardo⁴
- 2P-AM-41 Establishment of technology for single-cell tissue metabolome imaging analysis (°Osaka Univ., °Jichi Med. Univ.) °Shuichi Shimma¹, Hirotaka Nagai²
- 2P-AM-42 ☆ Exploration of unknown bacterial growth substrates in tap water by non-targeted analysis and fragmentation pathway prediction based on quantum chemical calculation (°UTokyo, °Kagoshima Univ) °Yutaro Uehara¹, Hirokazu Takanashi², Ikuro Kasuga¹, Futoshi Kurisu¹
- 2P-AM-43 Development of a Solid-Phase Microextraction Combined with GC-MS Platform for The Differentiation of Frozen Concentrated Milk and Fresh Milk. (°NCHU/Food Safety, °NCHU/Molecular Biology) °Ya-Ting Zhuang¹, Chien-Chen Lai^{1,2}
- 2P-AM-44 ☆ A Metabolomic LC-HRMS Approach for the Administration Route Classification of Altrenogest in Racehorses (°University of Technology Sydney, °Racing Analytical Services Limited, °Australian Racing Forensic Laboratory) °Madysen Elbourne¹, Adam Cawley², John Keledjian³, Shanlin Fu¹
- 2P-AM-45 Withdrawn
- 2P-AM-46 ☆ The investigation into the metabolic pathways of synthetic cannabinoid receptor agonists (SCRAs) using human liver microsomes (HLM) (°CFS / UTS, °MaPS / UTS, °C3 / UTS, °Brain and Mind Centre / USyd) °Eathan Walker¹, Eric Sparkes⁴, Morgan Alonzo², Unnikrishnan Kuzhiumparambil³, Shanlin Fu¹
- 2P-AM-47 Development of carbon isotopic measurement for pre-solar grains using TOF-SIMS M6 (Osaka Univ) °Nao Eguchi, Kei Sato, Kentaro Terada
- 2P-AM-48 Comparison Of Fast Scanning Data Dependent And Data Independent Acquisition Methods For A Multi-OMIC Cancer Study Using High-Speed Chromatography (Waters Corporation) °Davina Stewart
- 2P-AM-49 ☆ Nonnegative Tensor Factorization Enables Precursor-Peptide-Protein Deconvolution in Data-independent Acquisition Mass Spectrometry (°Kyoto Univ. (Pharma), °Kyoto Univ. (Engr), °Kyoto Univ. (Info), °NIBIOHN) °Jherico Geronca¹, Kazuyoshi Yoshii², Toshiyuki Tanaka³, Yasushi Ishihama^{1,4}
- 2P-AM-50 Is branching coral distributed in the Japan Sea? (°JAMSTEC, °BSIP, °AORI, °TCU) °Kaoru Kubota¹, Pawan Govil², Kotaro Shirai³, Kentaro Tanaka⁴, Yusuke Yokoyama^{1,3}
- 2P-AM-51 Characterization of lentiviral vector proteins by LC-MS/MS (°Sumitomo Pharma, °Osaka Univ., °Thermo Fisher Scientific) °Satomi Kasahara^{1,2}, Yuki Yamaguchi², Shio Watanabe³, Daisuke Higo³, Tetsuo Torisu², Susumu Uchiyama²

Day 2, June 23 (Mon.)

[2P-PM] Poster Session 2P-PM

Poster Display : 8 : 15 ~ 19 : 00

Core time (Odd numbers) : 17 : 00 ~ 18 : 00

Core time (Even numbers) : 18 : 00 ~ 19 : 00

2P-PM-01 Phosphoproteomics Identifies CDK18 as a Key Driver in ccRCC Progression and Potential Therapeutic Target (¹Fu Jen Univ., ²Department of Medical Research, Cathay General Hospital, ³National Defense Medical Center, ⁴Sijhih Cathay General Hospital, ⁵Cathay General Hospital) °Wei-Chi Ku¹, Chi-Jung Huang^{2,3}, Shao-Kuan Chen⁴, Yen-Chieh Wang^{1,5}

2P-PM-02 Small-molecule Fingerprinting Discriminated between Geographic Origins of White Shrimp (¹NTU, ²NTOU) °Wen-Ling Chen¹, Hsiao-Chi Hu¹, Fan-Hua Nan², Chien-Wei Tu²

2P-PM-03 Characterization of Lymphocyte-Rich Hepatocellular Carcinoma and the Prognostic Role of Tertiary Lymphoid Structures Using Spatial Proteomics (¹Univ. of Ulsan, ²Asan Medical Center, ³Yonsei University, ⁴Semyung University) Jiyoung Yu², Bokyung Kim¹, Yelin Lee¹, Jihyeon Kim¹, Minjoong Kim¹, Jung-Yoon Yoo³, Sungryul Yu⁴, °Kyung Kon Kim^{1,2}

2P-PM-04 ☆ Atomization by Acoustic Levitation Facilitates Contactless Microdroplet Reactions (Nankai Univ.) °Xiaoxu Li, Xinxing Zhang

2P-PM-05 (3C-03-1645) ☆ A Streamlined Workflow for Rapid and Accurate Identification of Novel Bioavailable Forms of Microbial Metabolites in vivo by LC-Orbitrap-MSn with Smart Searchable Databases (¹FSN/POLYU, ²RiFood/POLYU, ³RCMI/POLYU, ⁴CEVR) °Jianing Liu^{1,2}, Weipeng Li^{1,2}, Fanghui Deng^{1,2}, Man-Kin Wong¹, Danyue Zhao^{1,2,3,4}

2P-PM-06 ☆ Studying Unfolding of Peptides and Glycopeptides Using Gas-Phase FRET Hyphenated with Mass Spectrometry (ETH Zurich) °Kim Greis, Linus Busse, Lukas Benzenberg, Ri Wu, Renato Zenobi

2P-PM-07 Case study of inter-laboratory multi-attribute method (MAM) data comparison in Japan using NIST mAb (Protein Metrics) °Ayako Kurimoto, Kadir Sen

2P-PM-08 A Comprehensive LC/MS Workflow for Host Cell Protein Identification Utilizing A Novel, Multi-reflecting ToF Mass Spectrometry Providing High Confidence Characterization And Quantification (¹Nihon Waters, ²Waters) °Etsuko Yada¹, Jonathan Fox², Ying Qing Yu², Kenji Hirose¹

2P-PM-09 Theoretical Study on Single-Stage Reflectron TOF MS Attaining an Ultra-High Resolution for High m/z Ions (GRC) °Yi-Hong Cai, Yi-Sheng Wang

2P-PM-10 ☆ Volatilomic Analysis on Authenticity Verification and Quality Assessment of Taiwan Oriental Beauty Oolong Tea (¹IMB, NCHU, Taiwan, ²NCYU, Taiwan, ³Tea and Beverage Research Station, MOA, Taiwan) °Wei-Chen Wang¹, Cheng-Yu Kuo¹, Yi-Feng Cheng¹, Yen-Ching Lin¹, Han-Ju Chien², Chih-Chun Kuo³, Hsuan-Han Huang³, Hsien-Tsung Tsai³, Tsung-Chen Su³, Chien-Chen Lai¹

2P-PM-11 A metabolomic study of distinguishing roasted coffee beans from Taiwan and Brazil. (¹BCST, NCYU, ²IMB, NCHU, ³APBC, NCHU, ⁴CMS, CMU, ⁵CITFA, NCYU) °Jyun Cih Jian¹, Chien-Chen Lai^{2,3,4}, Han-Ju Chien^{1,5}

2P-PM-12 High-Resolution Imaging and Rapid Detection of Ustalic Acid in *Tricholoma kakishimeji* Using MALDI-IMS and PESI-MS/MS (¹Gifu Univ. Med. Sci., ²Nagoya Univ., ³Fukushima Univ., ⁴Shinshu Univ., ⁵Gifu Pref. Inst. Health Env. Sci.) °Tetsuro Ito¹, Shintaro Aritaki², Shu Taira³, Wataru Aoki⁴, Mimori Tsuji⁴, Hiroyuki Nagai⁵, Masashi Fukaya¹, Kaori Ryu¹, Katsuhiko Shiratake², Akiyoshi Yamada⁴

2P-PM-13 Proteomic Insights into Plant-PGPR Interactions: Elucidating Key Mechanisms During Commensalism (Academia Sinica) °Kai-Ting Fan, Ching-Huang Yu, Yet-Ran Chen

2P-PM-14 ☆ Effects of Additional Gases on the Ions Generated by Atmospheric Pressure Plasmas (¹NIT, Kochi Col., ²Toyohashi Tech.) °Kokone Michikura¹, Kenkichi Nagato¹, Hirofumi Kurita²

2P-PM-15 ☆ Pleckstrin Serves as a Prognostic Marker for COVID-19 and Promotes Pro-Thrombotic Symptoms via ERK Activation (¹HKBU, ²HKU) °Li Zhong¹, Lin Zhu¹, Runhong Zhou², Zhiwei Chen², Zongwei Cai¹

2P-PM-16 (4B-02-1455) ☆ Mass Spectrometric Analysis of Carcinogenic Areca Nut-Specific Alkaloids in Cooked *Areca catechu* L.: A Cautionary Note on Dietary Exposure (¹NDMC, ²CSMU) °Szu-Yi Chao¹, Chiao-Jou Yu², Yuan-Jhe Chang², Chiung-Wen Hu², Mu-Rong Chao²

Day 2, June 23 (Mon.)

- 2P-PM-17 ☆PSD Fragmentation Characteristics of Linear and Cyclic O-Linked Glycopeptides and Their Peptide Backbones in MALDI-TOF/TOF MS (Hokkaido Univ.) °Kohki Fukushi, Shogo Urakami, Hiroshi Hinou
- 2P-PM-18 MALDI-TOF MS analysis of unique O- and N-glycans on proteins in unfertilized salmon eggs using aminolysis-SALSA method (¹Nagoya Univ. 1, ²Nagoya Univ. 2) °Masaki Kurogochi¹, Kai Suzuki^{1,2}, Di Wu^{1,2}, Hisatoshi Hanamatsu¹, Ken Kitajima¹, Chihiro Sato^{1,2}, Jun-ichi Furukawa¹
- 2P-PM-19 Application of Metal-free Column with InertMask technology in LC-MS/MS (GL Sciences Inc.) °Nozomi Murayama, Masanori Motokawa, Mika Kano, Junichi Hashimoto
- 2P-PM-20 AI-Based Detection of Sesame Oil Adulteration Using Metabolomics and Lipidomics Analysis (Sogang Univ.) °Seungwoo Hong, Han Bin Oh
- 2P-PM-21 ☆Development and validation of neonicotinoid insecticides in rice and tea leaves using isotope-dilution-UHPLC-MS/MS (¹NYCU, ²NYC Univ.) °Cheng-Bin Zhan¹, Yu-Fang Huang²
- 2P-PM-22 ☆Development of Targeted LC-MS/MS Platform for Precise NADHX Detection (Waseda Univ.) °Kodai Takahashi, Kazuki Nakajima, Nobuhito Goda
- 2P-PM-23 Targeted MS-Based Approach: Investigating the Role of Water in Cooking Oil Oxidation (¹CSMU OSH, ²CSMU PH) °Yan-Jhen Lin¹, Yi-Jhen Wang¹, Yuan-Jhe Chang¹, Mu-Rong Chao¹, Chiung-Wen Hu²
- 2P-PM-24 ☆An analytical platform for the comprehensive and efficient discovery of metabolite ligands for orphan receptors (¹MIB, Kyushu Univ., ²SLS, Kyushu Univ., ³RIMD, Osaka Univ.) °Keisuke Nakata¹, Masatomo Takahashi^{1,2}, Taihei Torigoe¹, Noriyuki Tomiyasu^{1,2}, Kosuke Hata¹, Sho Yamasaki³, Takeshi Bamba^{1,2}, Yoshihiro Izumi^{1,2}
- 2P-PM-25 Withdrawn
- 2P-PM-26 ☆Mass Analysis of Ultra-High Molecular Weight Polystyrene: a Comparison of Copper and Silver Salts Using MALDI LIT-MS (¹Department of Physics, National Dong Hwa Univ., ²Department of Chemistry, National Dong Hwa Univ.) °Thị Khánh Ly Lại¹, Avinash Patil¹, Ching-Chieh Lee¹, Yi-Pang Chiu¹, Zhe-Xuan Liu¹, Che-Jen Lin², Wen-Ping Peng¹
- 2P-PM-27 Enhancing Ion Introduction Efficiency with Two Types of Ion Deflection Electrodes in an Electrospray Ion Source (¹Hitachi, ²Hitachi High-Tech Science) °Motoki Date¹, Shun Kumano¹, Masaki Watanabe²
- 2P-PM-28 ☆Role of intracellular calcium increase in biological response to cold stress in human hepatoma HepG2 cells (Chiba Univ.) °Ayano Fukuda, Yoshikazu Yamagishi, Sayaka Nagasawa, Yasumitsu Ogra
- 2P-PM-29 Facilitating Proteomics Data Sharing: Automated Extraction and Annotation of Mass Spectrometry Metadata (¹RIKEN TRIP, ²Niigata Univ.) °Yusuke Azuma¹, Masami Koike¹, Yushi Takahashi², Akiyasu Yoshizawa², Shujiro Okuda², Shuichi Onami¹
- 2P-PM-30 ☆Visualization of Food Compounds in Banana (*Musa* spp.) Tissue by Graphite Carbon Black-Assisted Laser Desorption Ionization-Mass Spectrometry Imaging (¹Kyushu Univ., ²Kyoto Univ., ³NII, ⁴Chuo Univ., ⁵KISTEC) °Zhuofei Liu¹, Yuzuki Koga¹, Takenobu Ogawa², Imari Sato³, Yukio Kawano^{4,5}, Toshiro Matsui¹, Mitsuru Tanaka¹
- 2P-PM-31 Analysis of Allergens in Food using LC-MS/MS (¹Shimadzu, ²SAIKA) °Nozomi Maeshima¹, Kasumi Tokami², Eri Inagaki², Manami Kobayashi¹
- 2P-PM-32 ☆A Mass Spectrometric Study of the Role of Water on the Paternò-Büchi (PB) Reaction between 2-Acetylpyridine and Unsaturated Fatty Acids (CUHK) °Danna Hu
- 2P-PM-33 (4B-O1-1140) ☆Investigation of ligand transfer mechanism during collisional activation of protein complexes in native mass spectrometry (Zhejiang Univ.) °Shiwen Zhou, Mowei Zhou, Hongru Feng, Yuanjiang Pan
- 2P-PM-34 ☆Dissipation and Metabolic Fate of Sulfoxaflo in Thistle and Olive (¹Kangwon Nat'l Univ., ²Konkuk Univ.) °Eun-Song Choi¹, Min-Ho Song¹, Ji-Woo Yu^{1,2}, Jung-Hoon Lee¹, Hui-Yeon Ahn², Geon-Woo Park², Ji-Won Shin², Ji-Yeon Lee², Ha-Jin Son², Young-Soo Keum², Ji-Ho Lee¹
- 2P-PM-35 Optimization of a new peak detection function and comparison for selecting a fit-for-purpose multi-attribute method system. (KKC) °Eriko Numao, Kumi Yanagisawa, Yuki Yagi, Daisuke Tsuchida, Katsuyoshi Yamazaki

Day 2, June 23 (Mon.)

- 2P-PM-36 Uniting amplified immuno-mass spectrometry imaging and fluorescent microscopy with lipid imaging by MALDI-MS in murine brain (¹UTS, ²UOW) °Mika Westerhausen^{1,2}, Jayden Mckinnon², Tassiani Sarretto², Shane Ellis², David Bishop¹
- 2P-PM-37 ☆Characterization of Q β Virus-Like Particles Using Orbitrap-Based Charge Detection Mass Spectrometry (CDMS) Approaches (¹NCKU CHEM, ²NCKU BME, ³Thermo Fisher Scientific) °Hsi-Wen Wang¹, Ying-Ting Chiou¹, Hung-Wei Yang², Weijing Liu³, Szu-Hsueh Lai¹
- 2P-PM-38 ☆Cerebrospinal fluid metabolomics and lipidomics in autistic regression (¹UTS, ²NUS, ³USYD) °Jinni Yan¹, Velda Han², Russell Dale³
- 2P-PM-39 ☆Probing Protein Structural Heterogeneity in Living Cells Using In-Cell Mass Spectrometry and Vacuum Ultraviolet Photodissociation (¹DICP, ²UCAS) °Shirui Yang^{1,2}, Zheyi Liu^{1,2}, Fangjun Wang^{1,2}
- 2P-PM-40 ☆Thiol Profiling Based on Live-Cell Derivatization (CCME, PKU) °Daiyu Miao, Yu Bai
- 2P-PM-41 ☆Comparative Metabolome Analysis of *Saccharomyces cerevisiae* under different Aeration Conditions (¹Osaka Univ., ²OTRI, ³Osaka Univ. Shimadzu Lab.) °Tomoki Kitamura¹, Takafumi Iwakura¹, Taisuke Seike^{1,2}, Nobuyuki Okahashi^{1,2,3}, Fumio Matsuda^{1,2,3}
- 2P-PM-42 ☆Evaluation of metabolite extraction methods applicable to various yeast species (¹Osaka Univ., ²OTRI, ³Osaka Univ. Shimadzu Lab.) °Hiroaki Ueno¹, Ayumu Fuke¹, Taisuke Seike^{1,2}, Nobuyuki Okahashi^{1,2,3}, Fumio Matsuda^{1,2,3}
- 2P-PM-43 Advanced *De Novo* Peptide Sequencing Using *N*-terminal Coumarin Derivatization Aided LC-MS/MS for Peptidomics Analysis (Kyushu Univ.) °Mitsuru Tanaka, Hui Luan, Fumiya Honda, Yizhi Xiao, Risa Katagihara, Ryosuke Kaneko, Toshiro Matsui
- 2P-PM-44 Exploring of antifungal compounds produced by *Streptomyces* sp. ES9 (¹Grad. Sch. BOST, Kindai Univ., ²TGA Co., Ltd) °Asahi Kawabe¹, Tatsuya Ohike^{1,2}, Ayano Fujisawa¹, Tetsuya Matsukawa¹, Takashi Ano¹, Shin'ichiro Kajiyama¹
- 2P-PM-45 (4A-02-1455) ☆Real-time environmental monitoring method of clean rooms for extraterrestrial samples with GED-ICP-MS/MS (¹JAXA, ²Marin Work Japan) °Ryota Fukai¹, Arisa Nakano¹, Masahiro Nishimura¹, Yuya Hitomi²
- 2P-PM-46 Cyclopeptides from *Amaioua*, a new mass spectrometry approach (¹UFG/Goias Fed. Univ., ²CRTI/UFG) °Lucilia Kato¹, Emiret de Faria¹, Cecilia de Oliveira²
- 2P-PM-47 ☆Advancing Herbal Medicine Evaluation Through Pharmacokinetic-Driven Bioinformatics Strategies (Hanyang Univ.) °Jeong In Seo, Hye Hyun Yoo
- 2P-PM-48 ☆Localization of neutral sugar and lipid compounds in strawberry fruit organs during ripening (¹Kyoto Univ., ²Agilent) °Misaki Ishibashi¹, Kyoko Yasuda², Takeshi Serino², Akira Oikawa¹
- 2P-PM-49 ☆Dual Ionization Ion Mobility Mass Spectrometry Hyphenated with Catalytic Oxygenation-Mediated Extraction (NTHU) °Tzu-Ching Tsai, Maheswar Chamarthi, Pawel Urban
- 2P-PM-50 ☆Si Pillar Structure for Efficient Laser Soft Ionization (¹Hokkaido Univ., ²JEOL, ³Osaka Univ., ⁴RIES, Hokkaido Univ.) °Yusuke Fujii¹, Junichi Osuga², Hiroshi Furutani³, Michisato Toyoda³, Yasutaka Matsuo⁴
- 2P-PM-51 Probing single-molecule protein glycosylation and its structural impact using PTR-based native mass spectrometry (¹IBC, Academia Sinica, ²IBS, NTU) °Hsin-Yung Yen^{1,2}, Ning-En Chang¹, Guan-Ting Lian^{1,2}, Yi-An Chen¹, Yu-Xi Tsai¹, Kay-Hooi Khoo^{1,2}, Shang-Te Hsu^{1,2}
- 2P-PM-52 Spatial Lipidomics with High Structural Specificity by Ion Mobility Modulation (Tsinghua Univ.) °Xiaoxiao Ma, Yao Qian

〈Corporate Posters〉

[2P-CP] Corporate Posters 2P-CP

Poster Display and Presentation : 8 : 15 ~ 19 : 00

- 2P-CP-01 IMMUNOPEPTIDE ANALYSIS WITH A MODIFIED ORBITRAP ASTRAL MASS SPECTROMETER MAXIMIZES PEPTIDE DETECTION AND QUANTITATION IN PROTEIN DEGRADER APPLICATIONS (¹AbbVie, Inc., ²Thermo Fisher Singapore San Jose, ³Thermo Fisher Scientific Singapore) Angelina Chen¹, Fernanda Salvato², °Nicole Zhang³

Day 2, June 23 (Mon.)

2P-CP-02 LC-MS WORKFLOWS FOR DIVERSE OMICS ANALYSIS OF PLASMA SAMPLES IN A MINI CANCER COHORT USING THE ORBITRAP ASTRAL MASS SPECTROMETER (1Thermo Fisher Scientific San Jose, 2Thermo Fisher Scientific Singapore) Kevin Yang¹, Nicole Zhang²

2P-CP-03 REVOLUTIONIZING TRANSLATIONAL RESEARCH: LARGE-SCALE TARGETED PRM PROTEOMICS ASSAYS ENABLED BY STELLAR MASS SPECTROMETER (MS) (1Thermo Fisher Scientific, 2Thermo Fisher Scientific San Jose, 3Thermo Fisher Scientific Singapore) Scott Peterman¹, Qingling Li², Nicole Zhang³

Day 3, June 24 (Tue.)

Room A (Maesato West)

〈Plenary Lecture〉

[3-PL] Plenary Lecture III

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:15 ~ 9:15) Chair: Masahiro Miyashita (Kyoto University)

3-PL-0815 From Toxins to Therapeutics: Atrial Natriuretic Peptide Analogs for the Tailored Treatment of Acute Decompensated Heart Failure (¹Natl Univ Singapore, ²VCU Richmond VA) °Manjunatha Kini^{1,2}

〈Oral Sessions〉

[3A-O1] Mass Spectrometry in Therapeutic Modality Research-1

(11:25 ~ 12:40) Chair: Susumu Uchiyama (The University of Osaka) / Nana Kawasaki (Yokohama City University)

3A-O1-1125 [Keynote]Metabolomics-Based Approaches to Drive the Development of Optimal Biotherapeutics Production Processes and the Unravelling of Disease Mechanisms (¹A*STAR BTI, ²A*STAR IMCB, ³A*STAR GIS, ⁴Duke-NUS, ⁵SNEC, ⁶SERI, ⁷Ozaki Eye Hospital, ⁸YLL School of Medicine, NUS, ⁹Dept. of Biological Sciences, NUS) °Ying Swan Ho¹, Yin Ying Ho¹, Annie Soh¹, Shi Ya Mak¹, Shuwen Chen¹, Esther Peh¹, Yu Hui Kang¹, Boon Min Poh², Boon Seng Soh^{2,9}, Gamal Ahmed Elfar², Chit Fang Cheok^{2,8}, Sai Kiang Lim², Meiyappan Lakshmanan¹, Zhenxun Wang^{3,4,6}, Chiea Chuen Khor^{3,6,8}, Zach Pang¹, Say Kong Ng¹, Andy Tan¹, Xuezhi Bi^{1,4}, Tin Aung^{5,6,8}, Mineo Ozaki^{6,7}, Andre Choo¹

3A-O1-1155 [Invited]Reference material: Tool for traceable measurement and characterization of monoclonal antibody (¹NMIJ/AIST, ²Yokohama City Univ., ³Kindai Univ.) °Tomoya Kinumi¹, Daisuke Takakura², Nana Kawasaki², Mitsuhiro Kinoshita³

3A-O1-1210 [Invited]Multi Attribute Method for antibody therapeutics (Astellas Pharma Inc.) °Naoki Kawase

3A-O1-1225 Utilizing of Antigens with Uniformed N-linked Glycans Facilitate Epitope Analysis of Glycoproteins via HDX-MS (¹Pharmaceutical Technology Research Division, SHIONOGI, ²Vaccine Business Division, SHIONOGI) °Takeshi Ota¹, Masahiro Takayama¹, Takeshi Ishihara², Masaaki Sato², Sawaka Ono¹, Ryota Futamata², Masaya Fujitani², Miwa Aoki², Akio Suzuki², Shinya Omoto², Masatomo Rokushima², Hiroshi Ueda¹

〈Luncheon Seminar〉

[3A-L] Luncheon Seminar (Presented by SCIEX)

(12:45 ~ 13:45)

3A-L-1245-1 Evolution of DIA in SCIEX: SWATH, Zeno-SWATH, and ZT-Scan DIA, The Radicals Strike Back: Enhancing electron-activated dissociation of fatty acids using caged-radical derivatives (Kumamoto Univ) °Sumio Ohtsuki

3A-L-1245-2 The Radicals Strike Back: Enhancing electron-activated dissociation of fatty acids using caged-radical derivatives (Queensland University of Technology) °Stephen Blanksby

〈Oral Sessions〉

[3A-O2] Mass Spectrometry in Therapeutic Modality Research-2

(13:55 ~ 15:10) Chair: Nana Kawasaki (Yokohama City University) / Susumu Uchiyama (The University of Osaka)

3A-O2-1355 [Keynote]Biophysical characterization of virus vectors for gene therapy by mass spectrometry (Osaka Univ.) °Susumu Uchiyama

3A-O2-1410 [Invited]Comprehensive Glycomic Profiling of Immunoglobulin G, A, and M in Tuberculosis: Insights into Active and Latent Infection in the Elderly (¹Taipei Medical University, Taiwan, ²Wan-Fang Hospital, Taiwan) Yun-Jung Yang¹, Chih-Hsin Lee², °I-Lin Tsai¹

Day 3, June 24 (Tue.)

3A-02-1425 Quantitative proteomic analysis of SCN1A gene knockout in cerebral organoids during differentiation for underlying Dravet syndrome (¹KRISS, ²KRICT, ³GIST) Young Eun Kim^{1,3}, Byunmseok Koh², Sung Bum Park², Sung-Hee Cho², Tae-Young Kim³, Myung Ae Bae², Ki Young Kim², ^oDukjin Kang¹

3A-02-1440 Sequence Characterization for RNA Therapeutics: Leveraging Multiple Ribonucleases and DIA Mass Spectrometry (¹MKI, ²Waters) ^oYuki Matsubara¹, Akari Ito¹, Catalin Doneanu², Yasuto Yokoi¹

3A-02-1455 (4P-AM-27) ☆Multimass Analysis of Adeno-Associated Virus Vectors by Orbitrap-Based Charge Detection Mass Spectrometry (¹Osaka Univ., ²Shimadzu Corp., ³Osaka Univ. Shimadzu AIRL, ⁴U-Medico Inc.) ^oRyoji Nakatsuka^{1,2,3}, Yuki Yamaguchi¹, Kiichi Hirohata¹, Saki Shimajo¹, Makoto Murakami¹, Mark Allen Rocafort⁴, Yasuo Tsunaka¹, Mitsuko Fukuhara^{1,4}, Tetsuo Torisu¹, Susumu Uchiyama¹

〈Teatime Session〉

[3A-T] Teatime Session (Technical Seminar for Staff Scientists & Core Lab Managers)

(15:10 ~ 15:40)

3A-T-1510 Technical Seminar for Staff Scientists & Core Lab Managers

〈Oral Sessions〉

[3A-03] Mass Spectrometry of Bioactive Molecules

(15:45 ~ 17:00) Chair: Masahiro Miyashita (Kyoto University) / Tohru Yamagaki (Suntory Foundation for Life Sciences)

3A-03-1545 [Keynote]Mass Spectrometry in the de novo Sequencing of Bioactive Non-tryptic Amphibian Peptides (MSU-BIT Shenzhen Univ.) ^oAlbert Lebedev, Tatiana Samgina

3A-03-1615 Comparison of the components of the *Liocheles australasiae* scorpion venom between different growth stages or colors (Kyoto Univ.) Kentaro Kojima, Ryo Shimase, Yoshiaki Nakagawa, ^oMasahiro Miyashita

3A-03-1630 (4P-AM-20) ☆Investigating the distribution of azetidine-2-carboxylic acid (A2C) in plants using HILIC-MS/MS (¹UTS, ²HyMaS, ³UNSW) ^oConnor Phillips^{1,2}, Jake Violi³, David Bishop², Kenneth Rodgers¹

3A-03-1645 Synthesis of Core-Shell Mesoporous Silica-TiO₂ Nanocomposite Functionalized with Boronic Acid for Selective and Efficient Glycopeptide Enrichment (CNU) ^oMohamed Gab-Allah, Jeongkwon Kim

Room B (Maesato Center)

〈Plenary Lecture〉

[3-PL] Plenary Lecture III

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:15 ~ 9:15) Chair: Masahiro Miyashita (Kyoto University)

3-PL-0815 From Toxins to Therapeutics: Atrial Natriuretic Peptide Analogs for the Tailored Treatment of Acute Decompensated Heart Failure (¹Natl Univ Singapore, ²VCU Richmond VA) ^oManjunatha Kini^{1,2}

〈Oral Sessions〉

[3B-01] Frontiers in Mass Spectrometry Imaging -Methods and Instrumentation-

(11:25 ~ 12:40) Chair: Shuichi Shimma (The University of Osaka) / Yoichi Otsuka (The University of Osaka)

3B-01-1125 Developments of laser desorption Post-photoionization Mass Spectrometry Imaging Techniques (Univ. Sci. Tech. China) ^oYang Pan

3B-01-1140 (4P-AM-02) ☆Single Tissue Multimodal Imaging for Cellular-level Spatial Metabolomics and Transcriptomics Analysis (¹HKBU, ²EIT Ningbo) ^oThomas Ka Yam Lam¹, Bingxu Zhang¹, Jining Wang¹, Zongwei Cai^{1,2}, Yiji Xia¹

Day 3, June 24 (Tue.)

- 3B-01-1155 Fully automated surface lipidomics by LC/differential ion mobility spectrometry/MS reveals alteration of brain lipid metabolism in prodromal Parkinson's disease model mice (¹Juntendo Univ., ²RIKEN, ³Kyoto Univ.) °Hisako Akiyama^{1,2}, Keiko Fukasawa^{1,2}, Tomoyuki Taguchi³, Masashi Ikuno³, Hodaka Yamakado³, Peter Greimel², Ryosuke Takahashi³, Nobutaka Hattori^{1,2}, Hiroyuki Kamiguchi²
- 3B-01-1210 MS Imaging of Natural Moisturizing Factors in Mouse Skin. (¹Kobe Univ., ²Shimadzu Corp.) °Akiko Kubo¹, Kaoru Nakagawa², Takeshi Fukumoto¹, Manami Kobayashi², Akiharu Kubo¹
- 3B-01-1225 Targeted spatial metabolomics and transcriptomics for mapping metabolism in the human lung (¹Karolinska Institute, ²Stockholm University, ³Karolinska University Hospital) Matthew Smith¹, Jesper Säfhholm^{1,3}, Alexandra Firsova², Christos Samakovlis², °Craig Wheelock^{1,3}

〈Luncheon Seminar〉

[3B-L] Luncheon Seminar (Presented by Shimadzu Corporation)

(12:45 ~ 13:45)

- 3B-L-1245 Approach to cutting-edge research by MALDI-TOF MS (Shimadzu Corp.) °Takushi Yamamoto, Tsukasa Takeuchi, Ryo Yamaguchi

〈Oral Sessions〉

[3B-02] Sharing and Analysis of Mass Spectrometry Data

(13:55 ~ 15:10) Chair: Fumio Matsuda (The University of Osaka)

- 3B-02-1355 [Invited]Network-based Integration of Cross-Study Metabolomics Data (¹Kyushu Inst. Tech., ²RIKEN, ³Keio Univ., ⁴HMT, ⁵Tokyo Univ. Agr. Tech., ⁶Kitasato Univ.) °Eisuke Hayakawa^{1,2}, Kozo Nishida², Mikiko Takahashi², Rira Matsuta³, Takaki Oka⁵, Hiroyuki Yamamoto⁴, Hiroshi Tsugawa^{2,5}, Shin Kawano⁶

- 3B-02-1410 [Invited]Development of LC-MS/MS Software for Controlled Substance Identification (Sogang Univ.) So Yeon Lee, °Han Bin Oh
- 3B-02-1425 AI-Driven Analysis of Mass Spectrometry Imaging (Hamamatsu Univ Sch Med) °Mitsutoshi Setou
- 3B-02-1440 Improving structure elucidation using machine learning for non-target analysis using Gas Chromatograph-Mass Spectrometer (JEOL) °Ayumi Kubo, Azusa Kubota, Kenji Nagatomo, Masaaki Ubukata
- 3B-02-1455 Multiple Omics Data Repositories for Comprehensive Reanalysis of Mass Spectrometry Data (¹Niigata Univ., ²Osaka Univ., ³Soka Univ., ⁴Kyoto Univ.) °Yushi Takahashi¹, Akiyasu Yoshizawa¹, Fumio Matsuda², Kiyoko Aoki-Kinoshita³, Yasushi Ishihama⁴, Shujiro Okuda¹

〈Teatime Session〉

[3B-T] Teatime Session (Presented by BRUKER)

(15:10 ~ 15:40)

- 3B-T-1510 Advances in Magnetic Resonance Mass Spectrometry (MRMS) Magnet Technologies and Instrumentation - Built to Enable World Class Science (¹Bruker, ²Bruker Daltonics) °Mike Greig¹, Christopher Wootton², Paul Speir¹, Jochen Friedrich², Michael Easterling¹

〈Oral Sessions〉

[3B-03] Advances in Mass Spectrometry for the Detection of Ultra-Trace Elements and Isotopes in Earth and Space Sciences

(15:45 ~ 17:00) Chair: Yusuke Yokoyama (The University of Tokyo) / Hirochika Sumino (The University of Tokyo)

- 3B-03-1545 [Keynote]Accelerator Mass Spectrometry: Enabling Measurements of Ultra-Trace Radionuclides for Applications in Earth and Space Sciences (NPAA / RSPHys / CoSM / ANU) °Michaela Froehlich

Day 3, June 24 (Tue.)

- 3B-03-1600 [Invited]Accelerator Mass Spectrometry Development and Capabilities at the Australian National University (ANU) °Stephen Tims, Keith Fifield, Stefan Pavetich, Michaela Froehlich, Peter Medley
- 3B-03-1615 Carbon cycle study with regards to climate and bio-sciences using PIMS and SSAMS at Atmosphere and Ocean Research Institute, The University of Tokyo (¹AORI, UTokyo, ²DEPS, UTokyo, ³GPES, UTokyo, ⁴RSPHys., ANU) °Yusuke Yokoyama^{1,2,3,4}
- 3B-03-1630 [Invited]Highly-sensitive LA-ICP-MS approaches for the determination of ultra-trace rare earth elements (REEs) and U-Th isotopes in stalagmites (¹Nanjing Normal University, ²National Taiwan University, ³ETH Zurich) °Chung-Che Wu¹, Chuan-Chou Shen², Detlef Günther³, Bodo Hattendorf³
- 3B-03-1645 Improvement of sensitivity of electron ionization source for noble gas mass spectrometer using ion beam focusing by electrostatic quadrupole lenses (Univ. Tokyo) °Hirochika Sumino

Room C (Top of Yaima)

⟨Plenary Lecture⟩

[3-PL] Plenary Lecture III

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:15 ~ 9:15) Chair: Masahiro Miyashita (Kyoto University)

- 3-PL-0815 From Toxins to Therapeutics: Atrial Natriuretic Peptide Analogs for the Tailored Treatment of Acute Decompensated Heart Failure (¹Natl Univ Singapore, ²VCU Richmond VA) °Manjunatha Kini^{1,2}

⟨Oral Sessions⟩

[3C-01] Clinical Mass Spectrometry and Reverse Translational Research -From Diagnostic and Treatment Application to Pathological Analysis- Part II

(11:25 ~ 12:40) Chair: Daisuke Saigusa (Teikyo University) / Masamitsu Maekawa (Tohoku University)

- 3C-01-1125 [Invited]RNA epitranscriptome in clinical diagnosis and beyond (¹Tohoku Univ. IDAC, ²Tohoku Univ. Pharm. Sci.) °Fan-Yan Wei^{1,2}, Akiko Ogawa^{1,2}

3C-01-1140 Xlinking MS for structure analysis of tau/phosphorylated tau and other proteins (PTB) °Cristian Arsene, Anne-Katrin Römmert

3C-01-1155 (4P-AM-01) ☆Towards Rapid and Accurate Bacterial Serotyping Using MALDI Glycotyping (Hokkaido Univ.) °Shogo Urakami, Hiroshi Hinou

3C-01-1210 Breath biomarkers for monitoring lipid peroxidation and ferroptosis in vivo (Kyoto Univ.) °Yuta Matsuoka, Yuki Sugiura

3C-01-1225 (4P-AM-15) ☆Molecular composition and imaging profiles of thrombi in acute coronary syndrome (Dokkyo Medical Univ.) °Mayo Wada, Tadayuki Ogawa, Setsu Nishino, Masashi Sakuma, Sigeru Toyoda

⟨Luncheon Seminar⟩

[3C-L] Luncheon Seminar (Presented by Waters Corporation)

(12:45 ~ 13:45)

3C-L-1245 Mastering Metabolomic and Lipidomic Workflows: Strategies, Challenges, and Essential Tools (¹Waters Corp, ²Tsinghua Uni) °Jayne Kirk¹, Zheng Ouyang²

⟨Oral Sessions⟩

[3C-02] Single-Cell Omics and Multiomics

(13:55 ~ 15:10) Chair: Yasushi Ishihama (Kyoto University) / Takeshi Bamba (Kyushu University)

3C-02-1355 [Keynote]Dynamic single-cell metabolomics platform and the application in cell-cell interaction (Peking Univ.) °Yu Bai

Day 3, June 24 (Tue.)

3C-02-1410 [Invited] Localization Analysis of Metabolites in Living Cells by Live Single-cell Mass Spectrometry (¹Meijo Univ., ²Univ. Shizuoka, ³Yokogawa Electric Corp., ⁴ITO EN) °Hajime Mizuno¹, Aogu Furusho², Takuma Yanagisawa^{1,2}, Eiji Sugiyama¹, Yuta Terui³, Masafumi Iharada³, Hironori Takai³, Susumu Imanishi¹, Kenichiro Todoroki², Iwao Sakane⁴

3C-02-1425 Application of ultrasensitive mass spectrometry-based single cell proteomics to address individual cell response (IMCB, A*STAR Singapore) Tianyun Zhao, Maxine Lam, Hiromi Koh, °Radoslaw Sobota

3C-02-1440 (4P-AM-32) ☆ MiProChip: Microfluidic Device for Multiplexed Isotopic labeling-based Streamlined Single-cell Profiling (¹ToC, AS, ²NTU) °Huan-Chi Chiu^{1,2}, Tsai-Fang Chou¹, Sofani Gebreyesus¹, Guan-Fu Chen¹, Hsiung-Lin Tu¹, Yu-Ju Chen^{1,2}

3C-02-1455 [Invited] Multi-omics measurement platform driving next-generation biomanufacturing (¹Kyushu Univ., ²NAIST, ³Waseda Univ., ⁴Niigata Univ., ⁵Yamaguchi Univ., ⁶Tokushima Univ.) °Yoshihiro Izumi¹, Yuki Soma², Masahito Hosokawa³, Atsushi Hatano⁴, Kazuki Ikeda¹, Kosuke Hata¹, Taihei Torigoe¹, Masatomo Takahashi¹, Masahiro Ando³, Shinsuke Uda⁵, Shinsuke Inuki⁶, Haruko Takeyama³, Masaki Matsumoto⁴, Takeshi Bamba¹

[3C-03] Cutting-Edge Metabolomics Technology and Applied Research

(15:45 ~ 17:00) Chair: Takeshi Bamba (Kyushu University) / Akiyoshi Hirayama (Keio University)

3C-03-1545 [Keynote] Integrated MS-based OMICs to Reveal Intercellular Communication Events in Plant Systemic Immunity (Academia Sinica) °Yet-Ran Chen

3C-03-1600 [Invited] Two-Dimensional Imaging of ¹³C-Glucose Tracing in Metabolome Analysis Using DESI-TQ-MS (Kyoto Univ.) °Yuki Sugiura

3C-03-1615 A High-Sensitivity Derivatization Strategy for Enhanced Hydroxyl Metabolite Detection in LC-MS and DESI-MS (¹National Yang Ming Chiao Tung University, ²National Taiwan University Hospital, ³National Taiwan University) Yen-Chu Lin¹, Guan-Yuan Chen^{2,3}, °Hsiao-Wei Liao¹

3C-03-1630 [Invited] Development and Application of Unified-HILIC/AEX/MS for Comprehensive and Practical Metabolomics (¹Niigata Univ., ²Kyushu Univ./MiB) °Kohta Nakatani^{1,2}, Yoshihiro Izumi², Masatomo Takahashi², Takeshi Bamba²

3C-03-1645 (2P-PM-05) ☆ A Streamlined Workflow for Rapid and Accurate Identification of Novel Bioavailable Forms of Microbial Metabolites in vivo by LC-Orbitrap-MSn with Smart Searchable Databases (¹FSN/POLYU, ²RiFood/POLYU, ³RCMI/POLYU, ⁴CEVR) °Jianing Liu^{1,2}, Weipeng Li^{1,2}, Fanghui Deng^{1,2}, Man-Kin Wong¹, Danyue Zhao^{1,2,3,4}

⟨Poster Presentations⟩

Room P (Maesato East, Foyer, Ocean Wing)

[3P-AM] Poster Session 3P-AM

Poster Display: 8:15 ~ 19:00

Core time (Odd numbers): 9:15 ~ 10:15

Core time (Even numbers): 10:15 ~ 11:15

#For banquet participants, the poster removal time is preferably at 21:00.

3P-AM-01 Capture of Hydroxyl Radicals by Hydronium Cations and the Spontaneous Oxidation of I- in Water Microdroplets (Nankai Univ.) °Dong Xing, Xinxing Zhang

3P-AM-02 A metabolomic study of the temperature impact of hand-drip brewing of washed coffee beans (¹NCYU, ²ITFA) °Han-Ju Chien^{1,2}, Ya-Ting Pan¹

3P-AM-03 Visualization of Ginger Polyphenols at Different Heating Times Using MALDI-MSI (Osaka Univ.) °Rika Fujimoto

3P-AM-04 (2B-01-1240) ☆ Chiral Recognition by Mass Spectrometry with the Combinations of Two Chiral Selectors (¹PolyU, ²CityU) °Qi Yi¹, Yiqi Sheng², Chi-Kit Siu², Zhong-Ping Yao¹

Day 3, June 24 (Tue.)

- 3P-AM-05** ☆Biomarker Discovery of Cerebrospinal Fluids for the Infantile Epilepsy by the Lipidomic Profiling of Extracellular Vesicles (¹Teikyo Univ., ²Okayama Univ., ³Tohoku Univ.) °Arisa Ishii¹, Tomoko Fukuuchi¹, Noriko Yamaoka¹, Tomoyuki Akiyama², Daisuke Saigusa^{1,3}
- 3P-AM-06** ☆Fluorinated Liquid Crystal Monomer (FLCM) Induces Kidney Dysfunction by Disrupting PPAR α -mediated Fatty Acid Oxidation (HKBU) °Lin Peng, Zongwei Cai
- 3P-AM-07** ☆Development of In-situ High-pressure Electropray Mass Spectrometry for Continuous Flow Hydrothermal Reactor (¹Univ. of Yamanashi/HDU, ²HDU, ³Univ. of Yamanashi) °Xiang Zhang¹, Zhi Hua Ying², Lee Chuin Chen³
- 3P-AM-08** Differentially expressed proteins in 4-cell stage porcine embryos derived from somatic cell nuclear transfer and parthenogenetic activation (¹NCHU Univ., ²ATRI, ³CMU) °Shu-Ping Chang¹, Chi-Hong Wong², Shu-Hui Peng², Hsin-Yi Liao³, Pin-Chi Tang¹, Ching-Fu Tu², Chao-Jung Chen³, San-Yuan Huang¹
- 3P-AM-09** A Novel Approach for Quantifying Therapeutic Monoclonal Antibodies in Blood through Liquid Chromatography–Tandem Mass Spectrometry (¹NTUH, ²NTU) °Huai-Hsuan Chiu¹, Tsun-Hao Chi², Chiao Lo¹, Shin-Yi Lin¹, Ching-Hua Kuo²
- 3P-AM-10** A machine learning model for site-specific classification of N-glycoprotein fucosylation using tandem mass spectrometry and deep neural network (¹KBSI, ²KRIBB, ³UST) °Mina Park¹, Jin Young Kim^{1,2}, Heeyoun Hwang^{1,3}
- 3P-AM-11** ☆Simulation and Experimental Study of a Photoionization Linear Ion Trap Mass Spectrometer (NSRL,USTC) °Guangqi Wang
- 3P-AM-12** An Easy Workflow for the Characterization and Relative Quantification of Recombinant Adeno-Associated Viruses (rAAVs) using Charge Detection Mass Spectrometry (¹Nihon Waters, ²Waters) °Kenji Hirose¹, Etsuko Yada¹, Anisha Haris², Rebecca D'esposito², Kevin Giles²
- 3P-AM-13** Quantitative proteomics using high-sensitivity data-independent acquisition (¹K.K. AB SCIEX, ²SCIEX, Canada) °Takeshi Shibata¹, Ushio Takeda¹, Ihor Batruch², Patrick Pribil²
- 3P-AM-14** ☆Quantitative Peptidomics Revealed a Novel Peptide Cytokine for Eliciting Plant Immunity by Pathogen-Associated Molecular Pattern (¹ABRC, Academia Sinica, ²IOB, National Taiwan Univ.) °Sheng-Chi Hung^{1,2}, Kai-Ting Fan¹, Jia-Wei Hsu¹, Yet-Ran Chen^{1,2}
- 3P-AM-15 (2B-O1-1225)** ☆Development and Applications of Portable Gas Chromatograph-Mass Spectrometer System with Built-in Preconcentrator (¹Graduate School of Science, Osaka Univ., ²College of Science, NTNU) °Ping Chen^{1,2}, Tsung-Han Lee², Chia-Jung Lu², Michisato Toyoda¹
- 3P-AM-16** ☆Metal-Organic Frameworks as Novel Platforms for Capturing and Identifying Tuberculosis Proteins Using MALDI-TOF Mass Spectrometry (¹Dept. of Physics, NDHU, ²Dept. of Laboratory Medicine and Biotechnology, TCU, ³Dept. of Internal Medicine, HTC Hospital and BTM Foundation, TCU, ⁴Dept. of Material Science, NDHU) °Vaishnavi Dhisale¹, Mhikee Descanzo¹, Avinash Patil¹, Sanath Kumar⁴, Yu-Tze Horng², Chih-Bin Lin³, Po-Chi Soo², Yen-Pei Fu⁴, Wen-Ping Peng¹
- 3P-AM-17** ☆Analysis of serine-related lipid changes in Niemann-Pick disease type C model mice using an improved analytical method (¹Grad. Sch. Pharm. Sci., Tohoku Univ., ²Dept. Pharm. Sci., Tohoku Univ. Hosp., ³Tohoku Univ. Grad. Sch. Med., ⁴INGEM., Tohoku Univ.) °Keitaro Miyoshi¹, Masamitsu Maekawa^{1,2,3,4}, Mikiko Suzuki^{3,4}, Nariyasu Mano^{1,2,3}
- 3P-AM-18** Determination of Benzophenone-type UV filters in Urine of Taiwanese Young Adults by Liquid-Liquid Extraction-based UHPLC–MS/MS (¹NYCU, ²NYC Univ.) °Si-Yu Liu¹, Yu-Fang Huang²
- 3P-AM-19** Development of a Compact t-SPESI System for High-sensitivity Mass Spectrometry Imaging of Biological Tissue (¹Grad. Sch. Sci., Univ. Osaka, ²FRC, Univ. Osaka, ³Grad. Sch. Eng., Univ. Osaka) °Yoichi Otsuka^{1,2}, Takao Yasuda¹, Mengze Sun¹, Zhou Yang¹, Shuichi Shimma³, Michisato Toyoda^{1,2}
- 3P-AM-20** ☆Association between prenatal exposure to benzophenones and birth outcomes (IEOHS, NYCU) °Wei-Hsuan Tu, Mei-Lien Chen, Yu-Fang Huang

Day 3, June 24 (Tue.)

- 3P-AM-21** Accurate Mass Calibration Variability and Ion Species Complexity in Inter-Laboratory LC/MS Analysis (¹Tottori Univ Env Stud, ²Osaka Univ, ³Natl Inst Environ Stud, ⁴Iwate Pref Env Health Res Cent, ⁵Nagasaki Pref Inst Env Pub Health, ⁶Kobe Inst Health, ⁷Res Inst Env Agric Fish Osaka Pref, ⁸Fukuoka City Inst Health Env) °Atsushi Yamamoto^{1,2}, Hidenori Matsukami³, Tomoko Ito⁴, Masafumi Egawa⁵, Yuya Deguchi⁵, Tomohiro Yoshino⁶, Junko Ono⁷, Etsuko Miyazaki⁸, Shunji Hashimoto³
- 3P-AM-22** ☆Development of a Pin-point Probe ESI-MS system with Robotic Automation (¹HDU/Univ. of Yamanashi, ²HDU, ³Univ. of Yamanashi) °Lei Li¹, Qiangqiang Xie², Lee Chuin Chen³, Satoshi Ninomiya³
- 3P-AM-23** Comparative Analysis of Effector Function-Related Anti-RBD IgG Glycosylation Profiles in End-Stage Renal Disease Patients After COVID-19 Vaccination (¹Taipei Medical University, Taiwan, ²Wan Fang Hospital-Nephrology, Taiwan, ³Wan Fang Hospital-Pulmonary, Taiwan) °Kai-Tang Yu¹, Chung-Yi Cheng², Chih-Hsin Lee³, I-Lin Tsai¹
- 3P-AM-24** ☆Development of a Rapid and Highly Sensitive Detection Method for Per- and Polyfluoroalkyl Substances Using the Isotope Dilution Method and Its Application in Evaluating the PFAS Levels in Chronic Kidney Disease Patients Before and After Oral Activate (NYCU) °Yen-Erh Chen, Han-Hsing Tsou
- 3P-AM-25** Assessment of the solvent-accessible surfaces of proteins observed by LC-MS (¹Sch. of Sci., Kitasato Univ., ²Cent. Disease Proteomics, Sch. of Sci., Kitasato Univ.) Eiji Kojitani¹, Arisa Suto¹, Taichi Takasawa¹, Yoshio Kodera^{1,2}, °Takashi Matsui^{1,2}
- 3P-AM-26** ☆Enhanced Proteomic Profiling through Dual-Labeling BioID-MS Targeting the ER and Golgi Apparatus (¹CityU, ²HKSMS) °Fenglian Yang^{1,2}, Liang Zhang^{1,2}
- 3P-AM-27** Imaging Analysis of Steroids in Adrenal Glands Using SALDI/MS with Metal Films (¹Toyama Prefectural University, ²Kanazawa University) °Kokoro Okawa¹, Riko Takata¹, Shigehiro Karashima², Issey Osaka¹
- 3P-AM-28** LC-MS/MS-based approach for glycosylation of recombinant adeno-associated virus (¹Osaka Univ., ²GlycoTechnica, ³Precision System Science, ⁴AIST, ⁵U-Medico, ⁶Nagoya Univ., ⁷Jichi Med. Univ. Sch. of Med., ⁸Jichi Med. Univ.) °Yuki Yamaguchi¹, Kentaro Ishii¹, Sachiko Koizumi^{2,3}, Hiroaki Sakaue⁴, Takahiro Maruno^{1,5}, Mitsuko Fukuhara^{1,5}, Risa Shibuya¹, Yasuo Tsunaka¹, Aoba Matsushita¹, Karin Bandoh¹, Tetsuo Torisu¹, Chie Murata-Kishimoto², Azusa Tomioka⁴, Saho Mizukado⁴, Hiroyuki Kaji⁶, Yuji Kashiwamura^{7,8}, Tsukasa Ohmori^{7,8}, Atsushi Kuno⁴, Susumu Uchiyama¹
- 3P-AM-29** ☆Colorectal Cancer Diagnosis by Urine Metabolic Profiling, Using Graphite Sheet-Assisted Laser Desorption/Ionization Mass Spectrometry (GS-assisted LDI-MS) (¹Kyushu Univ., ²Fukuoka Dental College, ³Shinshu Univ., ⁴Panasonic) °Agnes Sekarjati¹, Hinata Imamura¹, Masataka Oeki¹, Hideto Sonoda^{1,2}, Yusuke Tahara³, Tomotsugu Rikitake¹, Ryou Kuwabara⁴, Shinji Ishitani⁴, Ryosuke Kaneko¹, Toshiro Matsui¹, Mitsuru Tanaka¹
- 3P-AM-30** ☆Measurements of Depth Dependent Mass Fractionation of Solar Wind Noble Gases by LIMAS (¹Hokkaido Univ., ²Science Tokyo, ³ETH) °Yuta Otsuki¹, Ken-ichi Bajo¹, Tomoya Obase^{1,2}, Rainer Wieler³, Hisayoshi Yurimoto¹
- 3P-AM-31** Shin (Neo)-MassBank Project: Enriching MassBank records using human metabolome datasets with FDR-controlled metabolite annotation (¹Osaka Univ., ²Keio Univ., ³Kyushu Univ., ⁴Tokyo Univ. Agr. Tech., ⁵Niigata Univ.) °Fumio Matsuda¹, Ryosuke Hayasaka², Taihei Torigoe³, Yushi Takahashi⁵, Takaki Oka⁴, Yuki Matsuzawa⁴, Kozo Nishida⁴, Masatomo Takahashi³, Akiyasu Yoshizawa⁵, Takato Kiuchi⁵, Hiroshi Tsugawa⁴, Akiyoshi Hirayama², Yoshihiro Izumi³, Shujiro Okuda⁵
- 3P-AM-32** ☆¹³C-Metabolic Flux Analysis of *Saccharomyces cerevisiae* during early and late growth phases (¹Osaka Univ., ²OTRI, ³Osaka Univ. Shimadzu Lab.) °Haruki Inoue¹, Ryo Ishikawa¹, Nobuyuki Okahashi^{1,2,3}, Fumio Matsuda^{1,2,3}
- 3P-AM-33** ☆Integrative Analysis of Lipids in Plasma and Multiple Organs of MASH Mice Using LC/MS (¹Hokkaido Univ. Health sciences, ²Hokkaido Univ. GFR, ³Univ. Sapporo Health Sciences) °Nao Inoue¹, Hsin-Jung Ho¹, Siddabasave Gowda Bomme Gowda^{1,2}, Miki Eguchi¹, Minato Takeuchi¹, Hitoshi Chiba³, Shu-ping Hui¹

Day 3, June 24 (Tue.)

- 3P-AM-34 ☆ Interpretation of ambient mass spectra of α -pinene (Yokohama City Univ.) °Ren Ishihara, Kanako Sekimoto
- 3P-AM-35 ☆ Search for Growth Factors Secreted from Mesenchymal Stem Cells (Yokohama City Univ.) °Yuzuka Kuba, Tohru Sugawara, Nana Kawasaki
- 3P-AM-36 ☆ Evaluation of Analytical Software Suitable for Metaproteome Analysis (Kitasato Univ.) °Ryota Fukumoto, Yoshio Kodera, Shin Kawano
- 3P-AM-37 ☆ Search for Differentiation markers of human iPSCs by EV using data-independent acquisition LC/MS/MS (Yokohama Univ.) °Mei Mikami, Shunsuke Hoshina, Eri Katsuno, Kansei Takashita, Daisuke Takakura, Nana Kawasaki
- 3P-AM-38 ☆ Unveiling the Overall Triglyceride Composition in Skin through Optimized Monophasic Sebutape Extraction and Pseudo-Targeted Lipidomics Strategy (Univ. Taiwan) °Ya-Chu Kuo, Ching-Hua Lee, Ching-Hua Kuo
- 3P-AM-39 ☆ Fundamental study of LC/MS/MS analytical conditions for tryptophan-derived metabolites in Niemann-Pick Disease Type C model cells (¹Tohoku Univ., ²Tohoku Univ. Hosp.) °Masahiro Watanabe¹, Masamitsu Maekawa^{1,2}, Nariyasu Mano^{1,2}
- 3P-AM-40 End Group Analysis of Polycarbonates Using EGA-FI-TOFMS and Principal Component Analysis (PCA) (¹AIST, ²Nagoya Univ.) °Sayaka Nakamura¹, Hiroaki Sato¹, Takato Ishida², Hideaki Hagihara¹, Hideyuki Shinzawa¹, Ryota Watanabe¹
- 3P-AM-41 Analysis of local distribution and residence time of Nintedanib in fibrotic lung tissue using mass spectrometry imaging (¹Shimadzu Corp., ²Tokushima Univ.) °Takushi Yamamoto¹, Seidai Sato², Yasuhiko Nishioka²
- 3P-AM-42 Aroma profiling of various mango fruits using HS-SPME-GCMS (¹BOST, Grad. Sch, Kindai Univ., ²Experimental Farm, Kindai Univ.) °Risa Komemoto¹, Tetsuya Matsukawa^{1,2}, Kosuke Shimizu², Shin'ichiro Kajiyama¹
- 3P-AM-43 (2A-O1-1225) ☆ An Ambient Microwave Plasma Torch Desorption/Ionization Mass Spectrometry (MPT-MS) Strategy for Microplastic Detection (Zhejiang Univ.) °Qing Li, Weiwei Chen, Fengjian Chu, Jing Luo, Hongru Feng, Yujian Pan
- 3P-AM-44 ☆ Distinguishment of Terpenoids by Ambient Ionization CID Spectra (Yokohama City Univ.) °Renta Wakabayashi, Kanako Sekimoto
- 3P-AM-45 Development of a Combined Thermal and Laser Desorption Mass Spectrometry Approach for On-site Drug Detection (NSYSU) °Chun Wu, Min Huang, Chi Lee, Jentaie Shiea
- 3P-AM-46 ☆ Identification and Quantification of Tire Additives in Urban and Road dust Using LC-MS (¹KNU, ²MSCRI) °Seungjun Oh¹, Sunghwan Kim^{1,2}
- 3P-AM-47 ☆ Helium Isotopes in Olivine and Pyroxene Crystals in Volcanic Rocks Revealing the Magma Plumbing System of the Kirishima Volcano Group (¹School of Science, UTokyo, ²RCAST, UTokyo, ³ERI, UTokyo, ⁴Kumamoto Univ., ⁵Nippon Koei) °Rai Yoneda¹, Hirochika Sumino², Masataka Kawaguchi³, Toshiaki Hasenaka⁴, Yasuhisa Tajima⁵, Nanae Fukushima²
- 3P-AM-48 ☆ Automatic Sample Additive Scans for Electrospray Ionization Mass Spectrometry (NTHU CHEM) °I-Ting Wu, Decibel Elpa, Pawel Urban
- 3P-AM-49 (2B-O1-1155) ☆ Phosphatase reactivity-based profiling of the local environment of phosphorylation sites on proteins (¹Kyoto Univ., ²NIBIOHN) °Yuna Hiranuma¹, Kosuke Ogata¹, Yasushi Ishihama^{1,2}
- 3P-AM-50 ☆ Molecular Mapping of the Formose Reaction via High-Resolution Mass Spectrometry (¹Univ. Osaka, ²Univ. Tokyo) °Hiroaki Nishijima¹, Hiro Tabata^{1,2}, Rika Miyake¹, Shuji Nakanishi¹
- 3P-AM-51 (2B-O1-1210) ☆ First Look at the Integrated Phospholipid Metabolism in an Insect Endosymbiosis (¹NIBB, ²Keio University, ³RIKEN IMS) °Dolma Michellod¹, Kathrine Tan¹, Makoto Arita^{2,3}, Shuji Shigenobu¹
- 3P-AM-52 (2A-O3-1640) ☆ Exploring the Chemical Communication of Australian Native Flower *Corymbia ficifolia* Using Mass Spectrometry Imaging (¹ESC, GU, ²CMM, UQ, ³QBI, UQ) °Rachel Jackson¹, Brett Hamilton², Robert Sullivan³, Darren Holland¹, Joshua Hayton¹, Anthony Carroll¹

Day 3, June 24 (Tue.)

[3P-PM] Poster Session 3P-PM

Poster Display : 8 : 15 ~ 19 : 00

Core time (Odd numbers) : 17 : 00 ~ 18 : 00

Core time (Even numbers) : 18 : 00 ~ 19 : 00

#For banquet participants, the poster removal time is preferably at 21 : 00.

- 3P-PM-01 ☆ Spontaneous Reduction of Transition Metal Ions by One Electron in Water Microdroplets and the Atmospheric Implications (Nankai Univ.) °Xu Yuan, Xinxing Zhang
- 3P-PM-02 ☆ Proteomic and Metabolomic Profiling of Taiwanese Quinoa for Functional Components (National Chung Hsing Univ.) °Yi-Feng Zheng, Chien-Chen Lai
- 3P-PM-03 Development of a GC-MS Method for Detecting 23 Commonly Abused Drugs in Taiwan (TVGH) °Hsiaochia Liao, Yanchiao Mao
- 3P-PM-04 Anti-inflammatory and Metabolic Regulatory Effects of Ocular-Accumulative Phenolic Compounds in An *In Vitro* Model of Dry Eye Disease (¹CEVR, ²PolyU FSN, ³PolyU RiFood, ⁴PolyU RCMI, ⁵Univ. Waterloo) °Ke Wang^{1,2,3}, Weipeng Li^{2,3}, Pui-Kei Lee^{2,4}, Wenjie Wu^{1,4}, Ka-Ying Wong^{1,5}, Man-Sau Wong^{1,2,3,4}, Danyue Zhao^{1,2,3,4}
- 3P-PM-05 Integrating Untargeted and Targeted Metabolomics with Machine Learning for Early Colorectal Cancer Biomarker Discovery (¹NTOU, ²NCKU) °Pang-Hung Hsu¹, Chung-Fa Chang², Chung-Hsien Lin², Juan-Kai Wong²
- 3P-PM-06 Localized Transporter Inhibition and MSI: Advancing CNS Drug Penetration Studies (Eisai Co., Ltd.) °Yoko Nagaya, Tomomi Ishida, Yoshitane Nozaki
- 3P-PM-07 Spontaneous Reduction of Iodopentafluorobenzene and Ortho-diiodotetrafluorobenzene on Water Microdroplets (Nankai Univ.) °Huan Chen, Xinxing Zhang
- 3P-PM-08 ☆ Surveillance of Emerging Organic Pollutants in Thailand by Suspect Screening Using High-Resolution Mass Spectrometry (¹KKU, ²UTokyo) °Ittikorn Palee¹, Phanwatt Phungsai¹, Futoshi Kurisu²
- 3P-PM-09 ☆ Supervised Deep learning approach to automatically classify peaks of MALDI-TOF Datasets (GRC) °Ali Farhan, Yi-Sheng Wang
- 3P-PM-10 Routine EPA 1633 PFAS analysis with a novel slotted bandpass ion guide to improve signal response robustness (¹Nihon Waters, ²Waters) °Maki Terasaki¹, Sherry Zhang¹, Kari Organtini², David Gould², Peter Hancock²
- 3P-PM-11 ☆ The relationship between a trail pheromone and division of labor in *Lasius japonicus* (Hiroshima Univ.) °Mai Takatsu, Shunsuke Izumi
- 3P-PM-12 Decoding O-Antigen Substructures in Pathogenic *E. coli* O111: Insights from MALDI Glycotyping of Cell Culture and Commercial LPS (Hokkaido Univ.) °June Chelyn Lee, Shogo Urakami, Hinou Hiroshi
- 3P-PM-13 Ambient Pressure Laser Desorption Ionization/Post-photoionization Mass Spectrometry Imaging to Study the Permeation Process of Flavors and Fragrances in Tobacco Leaves (NSRL, USTC) °Chunchun Lv, Chengyuan Liu, Yang Pan
- 3P-PM-14 ☆ Capture the fleeting intermediates during thermal/photo catalytic reactions by photoionization mass spectrometry (USTC) °Chengyuan Liu, Yang Pan
- 3P-PM-15 ☆ Comparative proteomics analysis of female fibromyalgia and osteoarthritis using data-independent acquisition SWATH-based MS (¹IMB/NCHU, ²AIR/TCVGH, ³MBHG/TCU) °Cheng-Yu Kuo¹, Kuo-Tung Tang², Wei-Chen Wang¹, Yi-Feng Zheng¹, Yi-Ling Wu¹, Chih-Jui Chang³, Chien-Chen Lai¹
- 3P-PM-16 (2C-O2-1510) ☆ Advancing Bottom-up Proteomics with Protease Type XIII from *Aspergillus saitoi* (¹Kyoto Univ., ²SHIONOGI, ³NIBN) °Ryota Tomioka^{1,2}, Ayana Tomioka¹, Kosuke Ogata¹, Yasushi Ishihama^{1,3}
- 3P-PM-17 ☆ Determination of parabens in condiments using SPE isotope-dilution-UHPLC-MS/MS and dietary risk (¹IFSHRA, NYCU, ²IEOHS, NYCU) °Yi-Lun Chung¹, Yu-Fang Huang²
- 3P-PM-18 High Resolution DESI imaging Single Cell Analysis (¹Nihon Waters, ²Waters, ³University of Surrey) °Motoji Oshikata¹, Thanai Paxton¹, Mark Towers², Gary Harland², Scarlet Ferrinho², Lisa Towers², Lee Gethings², Preeti Mourya³, Shazneil Briones³, Olivier Cexus³, Paul Townsend³, Joanne Ballantyne²
- 3P-PM-19 ☆ Fundamental study for simultaneous analysis of capecitabine and its metabolites using liquid chromatography/tandem mass spectrometry (¹Grad. Sch. Pharm. Sci., Tohoku Univ., ²Dept. Pharm. Sci., Tohoku Univ. Hosp.) °Minami Yamauchi¹, Masamitsu Maekawa^{1,2}, Nariyasu Mano^{1,2}

Day 3, June 24 (Tue.)

- 3P-PM-20** Non-Targeted Analysis of Air Pollutants Using Thermal Desorption GC-HRTOFMS with Machine Learning Structural Analysis (¹JEOL Ltd., ²TOYO UNIVERSITY) °Masahiro Hashimoto¹, Chihiro Ueno², Ryotaro Suzuki², Katsuhito Yoshida², Atsuyuki Sorimachi², Masaaki Ubukata¹
- 3P-PM-21** ☆Compositional Analysis of Protein Corona on Diamond Nanoparticles Using Mass Spectrometry (¹Physics / NDHU, ²Biochem / NDHU, ³IAMS, ⁴TCU) °Mhikee Descanzo¹, Yu-Chung Chen¹, Ming-Chi Chung², Nguyen Nghiem Bich Ngoc², Po-Chi Soo⁴, Ruey-Yi Chang², Chia-Liang Cheng¹, Huan-Chen Chang³, Wen-Ping Peng¹
- 3P-PM-22** ☆Developing a Feedback System based on Image Processing for stability control of a high-pressure electrospray Ionization (¹Univ. Yamanashi, ²Hangzhou Dianzi Univ.) °Xiangting Chen^{1,2}, Qiangqiang Xie², Satoshi Niomiya¹, Lee Chuin Chen¹
- 3P-PM-23** ☆HCP Risk Assessment Using MS during Purification Process Changes in Biopharmaceutical Production (Kyowa Kirin) °Kazutomo Takaishi, Mamoru Yoneda, Akari Hiyama, Yukihito Ohyama, Daisuke Tsuchida
- 3P-PM-24** ☆Development of a Simplified Estrogen Analysis Method: Liquid-Liquid Extraction and Derivatization Strategy Comparison (¹Kangwon Nat'l Univ., ²Konkuk Univ.) °Min-Ho Song¹, Ji-Woo Yu^{1,2}, Jung-Hoon Lee¹, Eun-Song Choi¹, Ji-Ho Lee¹
- 3P-PM-25** ☆Benzophenone-type UV filters in the hair of Taiwanese Young Adults by SLE and SPE-based UHPLC-MS/MS (NYCU) °Jiong-Heng Du, Yu-Fang Huang
- 3P-PM-26** ☆Analysis of cataract pathophysiology by mass spectrometry imaging (Dokkyo Medical Univ) °Haruka Matsumoto, Tadayuki Oga-wa, Hiroyuki Matsushima, Mayumi Nagata
- 3P-PM-27** ☆Integrating DynamiCROP Model and Risk Assessment for Pesticide Residues in Spinach: Implications for Food Safety (¹Konkuk Univ., ²Kangwon Nat'l Univ., ³NAS) °Ji-Woo Yu¹, Min-Ho Song², Jung-Hoon Lee², Hui-Yeon Ahn¹, Eun-Song Choi², Young-Soo Keum¹, Hyun Ho Noh³, Ji-Ho Lee²
- 3P-PM-28 (4B-01-1155)** ☆Prioritizing Candidate Structures in Non-Targeted LC/ESI/HRMS Analysis by Combining Machine Learning Predictions (¹Stockholm Univ. Kemikum, ²Stockholm Univ. ACES) °Wei-Chieh Wang¹, Lucas Ferrando Plo¹, Chimnaz Emrah¹, Amina Souihi¹, Pilleriin Peets¹, Anneli Kruve^{1,2}
- 3P-PM-29** Direct Detection of Vitamin D Analogue by Surface-Assisted Laser Desorption/Ionization Mass Spectrometry (¹Toyama. Pref. Univ., ²Kanazawa Univ., ³Hamamatsu Photonics) °Chouma Kurihashi¹, Shigehiro Karashima², Takamasa Ikeda³, Issey Osaka¹
- 3P-PM-30** ☆Development of a Nano-ESI-MS/MS Method with the In-Capillary Derivatization for the Single-Cell Amino Acid Metabolomics (¹Univ. Shizuoka, ²Meijo Univ., ³Ajinomoto) °Aogu Furusho¹, Daiki Hosojima¹, Yukino Yamaguchi¹, Hajime Mizuno^{1,2}, Sachise Karakawa³, Kotoe Nakasha³, Akihiro Arakawa³, Akiho Murai³, Eiji Sugiyama^{1,2}, Kenji Kojima¹, Kenichiro Todoroki¹
- 3P-PM-31** Understanding Enzyme-Inhibitor Interactions via Native Mass Spectrometry (¹Zhejiang Univ., ²HUST) °Mowei Zhou¹, Shiwen Zhou¹, Beiyao Fu¹, Xinjie Yang², Pengfei Ji¹, Fangrui Zhong², Yuanjiang Pan¹
- 3P-PM-32** ☆Fragmentation analysis of gas-phase oxidation products from several monoterpenes using high-resolution collision-induced dissociation mass spectrometry (HR-CID-MS) (Yokohama City Univ.) °Daisuke Fukuyama, Kanako Sekimoto
- 3P-PM-33** ☆Structural Characterization of Human Mitochondrial Single-Stranded DNA-Binding Protein and Helicase Twinkle Using Native Mass Spectrometry (¹NCKU CHEM, ²NCKU BIMB, ³NCKU BMS) °Ting-Yi Chiang¹, Po-Jung Cien², Chyuan-Chuan Wu³, Szu-Hsueh Lai¹
- 3P-PM-34** ☆Integrated Network Analysis and Enrichment Analysis of Proteome Data Obtained under Different Experimental Conditions (¹Kita-sato Univ., ²Kumamoto Univ.) °Manaka Nishizaki¹, Norie Araki², Shin Kawano¹
- 3P-PM-35** Proteomics and Lipidomics Approach to Comprehensive Understanding of Malignant Mesothelioma (¹Nagoya Univ. / ITbM, ²Aichi Cancer Center, ³TUAT) °Keiko Kano¹, Shinya Sato¹, Tasuhiro Sato², Takaki Oka³, Yuki Matsuzawa³, Hiroshi Tsugawa³, Emi Mishiro-Sato¹

Day 3, June 24 (Tue.)

- 3P-PM-36 ☆ Investigation of the Antimicrobial Activity of *Lactobacillus sp.* SC-2001 Strain Isolated from *Quercus serrata* (Sumitomo Chemical) °Yumi Komori, Naoya Ozawa, Hiroshi Kuwahara, Mikio Aoki
- 3P-PM-37 ☆ Evaluation of Accuracy and Precision on the Multi-Turn Time-of-Flight Secondary Neutral Mass Spectrometry (MULTUM-SNMS) and Its Application to Extraterrestrial Materials (Univ. of Osaka) °Shigeru Ujita, Hiromu Shinozaki, Kohei Fukuda, Toshinobu Hondo, Yosuke Kawai, So Jinnouchi, Michisato Toyoda, Kentaro Terada
- 3P-PM-38 The next frontier in extractable screening analyses: Increased identification confidence provided by a benchtop multi-reflecting time-of-flight mass spectrometer (Waters Corp) °Jayne Kirk, Rachel Sanig, Lee Gethings
- 3P-PM-39 A steroid pathway-based DNN model for Biological Age prediction via LC-MS/MS steroid profiling (IPR, Osaka Univ.) °Zi Wang, Qiuyi Wang, Kenji Mizuguchi, Toshifumi Takao
- 3P-PM-40 ☆ Establishment of LC-MS/MS Analysis Approach of Folic Acid and Its Metabolites in Clinical Samples of Autistic Children (NTU Univ.) °Shuangshuang Zhu, Li Ching Pang, Wen Zheng Lo, Xueming Dong
- 3P-PM-41 (2C-O2-1440) ☆ Proteome-Wide Degron Screening (1UNSW, 2UTS) °Jake Violi¹, Suhyeon Kwon¹, Priyanka Kundu¹, Connor Phillips², William Donald¹
- 3P-PM-42 A Study on the Use of Nitrogen as an Alternative Gas to Helium in Gas Chromatography/Mass Spectrometry (GC/MS) for Forensic Toxicology (1Okinawa Prefectural Police, 2Univ. Ryukyus, 3Yokohama City Univ.) °Kazumichi Kakazu^{1,2}, Kenji Ninomiya², Chiaki Fuke³, Natsuki Ikematsu², Maki Fukasawa², Mio Takayama², Akihisa Agena¹
- 3P-PM-43 ☆ Development of a Quantitative Analysis Method for Blood Metabolites Using a Multi-HPLC Analysis System for Accurate Health Monitoring (1MIB, Kyushu Univ., 2Shimadzu) °Kotaro Harada¹, Masatomo Takahashi¹, Shoji Shinadama², Keisuke Nakata¹, Kazuki Ikeda¹, Maiko Goto¹, Yoshihiro Hayakawa², Takeshi Bamba¹, Yoshihiro Izumi¹
- 3P-PM-44 Development of on-site analysis equipment using multi-turn time-of-flight MS (1Univ. Tokyo, 2Univ. Tokyo RCAST) °Shogo Numata¹, Hirochika Sumino²
- 3P-PM-45 Visualization of Tamoxifen Distribution and Sensitivity Assessment in Breast Cancer Tissues Using Imaging Mass Spectrometry (1Kyoto Pref. Univ. Med., 2Shimadzu Corp.) °Chikage Kato¹, Takushi Yamamoto¹, Yasuto Naoi²
- 3P-PM-46 Smart On-Line Coffee Roasting Process Control by a Novel Rugged Photoionization Mass Spectrometer: Real-Time Prediction Models for Coffee-Roasting Degree, Brew Antioxidant Capacity and Sensory Attributes (1Univ. Rostock/HMGU, 2Photonion GmbH, 3Probat GmbH) Henryk Czech¹, Jan Heide², Sven Ehlert², Thomas Kozirowski³, °Ralf Zimmermann¹
- 3P-PM-47 Gas-Phase-Fractionation Spectral Library-Enhanced DIA Mass Spectrometry for Rapid and Deep Plasma Proteomics (1CLSMB, NTU, 2IoC, AS, 3MST-TiGP, AS, 4Thermo Fisher San Jose, 5Surgery, NTUH, 6Thermo Fisher Bremen, 7Internal Med., CSMUH, 8Surgery, NTUH and NTU, 9Internal Med., NTUH) Sung-Liang Yu¹, Yi-Ju Chen², °Kun-Hao Chang^{2,3}, Jared Deyarmin⁴, Yi-Shuang Chuang², Yi-Jing Hsiao², Chong-Jen Yu⁵, Tabiwang Arrey⁶, Jana Richter⁶, Stephanie Samra⁴, Daniel Hermanson⁴, Gee-Chen Chang⁷, Jin-Shing Chen⁸, Pan-Chyr Yang⁹, Yu-Ju Chen²
- 3P-PM-48 (4B-O1-1210) ☆ Two-step peptide solubilization increases coverage in high-sensitivity nanoHILIC/MS/MS-based proteomics (1Kyoto Univ., 2NIBIOHN) °Koshin Akamatsu¹, Eisuke Kanao^{1,2}, Ayana Tomioka¹, Yasushi Ishihama^{1,2}
- 3P-PM-49 ☆ Exploring Chemical Interactions of the Soft Coral *Carijoa (Telesto) riisei* on Artificial Reefs in Southeast Queensland, Australia, using Mass Spectrometry. (1Esc/Griff. Univ., 2GRIDD/Griff.Univ.) °Pauline Lindholm¹, Darren Holland^{1,2}, Joshua Hayton¹, Tim Stevens¹, Anthony Carroll^{1,2}
- 3P-PM-50 (4C-O1-1225) ☆ Large-Scale Libraries of Highly Specific Kinase Substrate Peptides for LC/MS-Based Kinome Profiling (1Kyoto Univ, 2NCVC, 3NIBIOHN) °Junqi Liang¹, Saki Toi¹, Junna Nakazono¹, Dai Sakamoto¹, Naoyuki Sugiyama^{1,2}, Yasushi Ishihama^{1,3}
- 3P-PM-51 (4A-O1-1225) ☆ Acceleration of Iodide Oxidation by Ozone in Atmospheric Clusters (1Queensland Univ. Tech., 2Univ. Melbourne, 3Univ. Wollongong) °Samuel Brydon¹, Evan Bieske², Adam Trevitt³, Stephen Blanksby¹

Day 3, June 24 (Tue.)

〈Corporate Posters〉

[3P-CP] Corporate Posters 3P-CP

Poster Display and Presentation : 8 : 15 ~ 19 : 00

3P-CP-01 GOING BEYOND SIMPLE DDMS2 :
IMPROVING ANNOTATION CONFIDENCE
IN UNTARGETED METABOLOMICS USING
HIGH-RESOLUTION MS AND PARALLEL
ION TRAP EXPERIMENTS (¹Thermo Fisher
Scientific, ²Thermo Fisher Scientific, San Jose,
³Thermo Fisher Scientific Singapore) Scott Pe-
terman¹, Brandon Bills², ^oNicole Zhang³

3P-CP-02 COMBINING TARGETED MS2 AND
MS3 APPROACHES FOR THE QUANTITA-
TION OF BILE ACIDS IN BIOLOGICAL SPEC-
IMENS USING THE STELLAR MASS SPEC-
TROMETER (¹Thermo Fisher Scientific,
²Thermo Fisher Scientific San Jose, ³Thermo
Fisher Scientific Singapore) Scott Peterman¹,
Charles Maxey², ^oNicole Zhang³

3P-CP-03 SIMPLIFIED PFAS IN WASTEWATER
ANALYSIS THROUGH AUTOMATION,
RETENTION TIME CONFIRMATION, AND
HIGH RESOLUTION FULL SCAN DATA
(¹Thermo Fisher Scientific San Jose, ²Thermo
Fisher Scientific Singapore) Cynthia Grim¹, ^oNi-
cole Zhang²

Day 4, June 25 (Wed.)

Room A (Maesato West)

⟨Plenary Lecture⟩

[4-PL] Plenary Lecture IV

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:30 ~ 9:15) Chair: Takeshi Bamba (Kyushu University)

4-PL-0830 Development of CE-MS Metabolomics and Its Application in Cancer (Keio Univ.) °Tomoyoshi Soga

⟨Oral Sessions⟩

[4A-O1] Fundamentals & Emerging Applications of Ionization and Gas Phase Ion Processes - Part II

(11:25 ~ 12:40) Chair: Kanako Sekimoto (Yokohama City University) / Lee Chuin Chen (University of Yamanashi)

4A-O1-1125 [Invited]Oxygen Attachment Dissociation-Enhanced MALDI Imaging for Spatially Resolved Isomer Identification (Shimadzu) °Hidenori Takahashi, Satoshi Kasamatsu, Kaoru Nakagawa, Naoto Mishina, Kenta Takigawa, Manami Kobayashi, Kengo Takeshita, Noriyuki Ojima

4A-O1-1140 [Invited]Applications of Ion Mobility Mass Spectrometry in Metallo-supramolecular Chemistry (QUT) °David Marshall, Michael Pfrunder, Jason Hong, Therese Fulloon, John Mcmurtrie, Stephen Blanksby, Kathleen Mullen

4A-O1-1155 [Invited]Study Organic Reactive Intermediate via Mass Spectrometry: Bridge the Gap between the Solution and the Gas-phase (ZJU) °Yuanjiang Pan, Hongjian Chu

4A-O1-1210 [Invited]Understanding the Binding and Structures of Model Complexes of Polypeptides and Cofactors: Insights into structural enzymology of radical proteins (U of Hong Kong, °Shandong Public Health Clinical Center) °Ivan Chu^{1,2}

4A-O1-1225 (3P-PM-51) ☆Acceleration of Iodide Oxidation by Ozone in Atmospheric Clusters (°Queensland Univ. Tech., °Univ. Melbourne, °Univ. Wollongong) °Samuel Brydon¹, Evan Bieske², Adam Trevitt³, Stephen Blanksby¹

⟨Luncheon Seminar⟩

[4A-L] Luncheon Seminar (Presented by Yokogawa Electric Corporation)

(12:45 ~ 13:45)

4A-L-1245 Unlocking Cellular Secrets: Cutting-Edge Single-Cell and Organelle Analysis for Drug Discovery (°Yokogawa, °Meijo Univ., °KCL) Yuta Terui¹, °Hajime Mizuno², Melanie Bailey³, Masafumi Iharada¹

⟨Oral Sessions⟩

[4A-O2] Instrument Developments for the Future of Mass Spectrometry

(13:55 ~ 15:10) Chair: Yoichi Otsuka (The University of Osaka) / Yi-Sheng Wang (Academia Sinica)

4A-O2-1355 [Keynote]Instrumentation Strategies for Imaging and Single-Cell Structural Lipidomics (Tsinghua Univ.) °Zheng Ouyang, Zhijun Cai, Yao Qian, Dan Li, Xiaoxiao Ma

4A-O2-1425 Development of Medium Vacuum Chemical Ionization (MVCI) for Mass Spectrometry: Micro-Tissue Analysis via Online Coupling of Supercritical Fluid Extraction/Chromatography (°Univ. Osaka/MS-Cheminfo., °Univ. Osaka) °Toshinobu Hondo¹, Yumi Miyake², Michisato Toyoda²

4A-O2-1440 Extending capabilities of Orbitrap-based MS to cold ion spectroscopy for analytical applications (EPFL) °Oleg Boyarkine, Vyacheslav Kozlovskii, Andrei Zviagin, Vladimir Kopysov

4A-O2-1455 (2P-PM-45) ☆Real-time environmental monitoring method of clean rooms for extraterrestrial samples with GED-ICP-MS/MS (°JAXA, °Marin Work Japan) °Ryota Fukai¹, Arisa Nakano¹, Masahiro Nishimura¹, Yuya Hitomi²

Day 4, June 25 (Wed.)

Room B (Maesato Center)

〈Plenary Lecture〉

[4-PL] Plenary Lecture IV

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:30 ~ 9:15) Chair: Takeshi Bamba (Kyushu University)

4-PL-0830 Development of CE-MS Metabolomics and Its Application in Cancer (Keio Univ.) °Tomoyoshi Soga

〈Oral Sessions〉

[4B-01] Young Researcher Session 2

(11:25 ~ 12:40) Chair: Yuki Yamaguchi (The University of Osaka) / Pai-Shan Chen (National Taiwan University)

4B-01-1125 [Invited]Metabolomics Approaches for Organic Acidemias: Optimization of Derivatization Methods for Enhanced Biomarker Quantification and Accurate Diagnosis (¹NTU, ²Dept Pediatr NTUH, ³Dept Pediatr NTU, ⁴NTNU) Yung-Cheng Jair¹, Ni-Chung Lee²³, Yi-Hsin Liu⁴, °Pai-Shan Chen¹

4B-01-1140 (2P-PM-33) ☆Investigation of ligand transfer mechanism during collisional activation of protein complexes in native mass spectrometry (Zhejiang Univ.) °Shiwen Zhou, Mowei Zhou, Hongru Feng, Yuanjiang Pan

4B-01-1155 (3P-PM-28) ☆Prioritizing Candidate Structures in Non-Targeted LC/ESI/HRMS Analysis by Combining Machine Learning Predictions (¹Stockholm Univ. Kemikum, ²Stockholm Univ. ACES) °Wei-Chieh Wang¹, Lucas Ferrando Plo¹, Chimnaz Emrah¹, Amina Souih¹, Pilleriin Peets¹, Anneli Kruve¹²

4B-01-1210 (3P-PM-48) ☆Two-step peptide solubilization increases coverage in high-sensitivity nanoHILIC/MS/MS-based proteomics (¹Kyoto Univ., ²NIBIOHN) °Koshin Akamatsu¹, Eisuke Kanao¹², Ayana Tomioka¹, Yasushi Ishihama¹²

4B-01-1225 Metal Ion-Enhanced ZIC-cHILIC StageTip for Simultaneous, Large-Scale Glycoproteomic and Phosphoproteomic Tissue Profiling in Breast Cancer (¹NTU/ Academia Sinica, ²Academia Sinica) °Hsiang-Chun Cheng¹, Juanilita Waniwan², Yu-Ju Chen²

〈Luncheon Seminar〉

[4B-L] Luncheon Seminar (Presented by Agilent Technologies Japan, Ltd.)

(12:45 ~ 13:45)

4B-L-1245 Cutting-edge Approaches in Life Science Utilizing Agilent Mass Spectrometry (Agilent Technologies Japan, Ltd) °Aya Anegawa, Kyoko Yasuda, Takeshi Serino

〈Oral Sessions〉

[4B-02] Mass Spectrometry in Agriculture and Food Science

(13:55 ~ 15:10) Chair: Akira Oikawa (Kyoto University)

4B-02-1355 [Invited]Mass Spectrometry-Based Metabolomics for Flavor and Bioactive Compound Discovery in Crops: Towards Product Development (Chulalongkorn Univ.) °Supaart Sirikantaramas

4B-02-1410 [Invited]Pesticide vs Plant medicine: Metabolomic Approach (Kangwon Nat'l Univ.) °Ji-Ho Lee

4B-02-1425 [Invited]Advanced Techniques for Flavor Analysis Utilizing Capillary Flow Technology (CFT) (Agilent Technologies Japan, Ltd.) °Aya Anegawa, Takeshi Otsuka, Sadao Nakamura

4B-02-1440 Monitoring Indoor Farming Growth Conditions Using Direct Analysis in Real Time Mass Spectrometry (DART-MS) (NUS) °Qifeng Lin, Norman Zhi Wei Teo, Xin Shan Lim, Qingsong Lin

Day 4, June 25 (Wed.)

4B-02-1455 (2P-PM-16) ☆Mass Spectrometric Analysis of Carcinogenic Areca Nut-Specific Alkaloids in Cooked *Areca catechu* L.: A Cautionary Note on Dietary Exposure (¹NDMC, ²CSMU) °Szu-Yi Chao¹, Chiao-Jou Yu², Yuan-Jhe Chang², Chiung-Wen Hu², Mu-Rong Chao²

Room C (Top of Yaima)

〈Plenary Lecture〉

[4-PL] Plenary Lecture IV

#This session will take place in Rooms A and B and will be available for live viewing via online streaming in Room C.

(8:30 ~ 9:15) Chair: Takeshi Bamba (Kyushu University)

4-PL-0830 Development of CE-MS Metabolomics and Its Application in Cancer (Keio Univ.) °Tomoyoshi Soga

〈Oral Sessions〉

[4C-01] Chemical Proteomics / Pharmacoproteomics

(11:25 ~ 12:40) Chair: Wei Wu (National University of Singapore) / Jun Adachi (National Institutes of Biomedical Innovation, Health and Nutrition)

4C-01-1125 [Keynote]Clinical Functional Proteomics Applied to Pancreatic Cancer (SUS-Tech) °Ruijun Tian

4C-01-1140 [Invited]Mass spectrometry-based assay to screen for PTP dysregulation and activation: a case study in metabolic disease management and reversal. (¹A*STAR-SiGN, ²NUS) Elisavet Kalaitidou^{1,2}, Ziliang Ma¹, °Wei Wu^{1,2}

4C-01-1155 Phosphoproteomic subtyping of gastric cancer reveals dynamic transformation with chemotherapy and guides targeted cancer therapy (¹NIBN, ²Kyoto Univ., ³NCCH, ⁴Osaka Univ., ⁵NMS) °Jun Adachi^{1,2}, Hirokazu Shoji³, Hidekazu Hirano³, Yosui Nojima^{1,4}, Daigo Gunji^{1,2}, Akina Shinkura^{1,2}, Satoshi Muraoka¹, Yuichi Abe¹, Ryohei Narumi¹, Chikako Nagao⁴, Masahiko Aoki³, Kazutaka Obama², Kazufumi Honda⁵, Kenji Mizuguchi^{1,4}, Takeshi Tomonaga¹, Takaki Yoshikawa³, Ken Kato³, Narikazu Boku³

4C-01-1210 Chemical Proteomics and Cross-linking Mass Spectrometry for Identification of Protein-protein Interactions of drug-protein interactome (IMCB, A*STAR) °Zheng Ser, Alicia Ong, Radoslaw Sobota

4C-01-1225 (3P-PM-50) ☆Large-Scale Libraries of Highly Specific Kinase Substrate Peptides for LC/MS-Based Kinome Profiling (¹Kyoto Univ, ²NCVC, ³NIBIOHN) °Junqi Liang¹, Saki Toi¹, Junna Nakazono¹, Dai Sakamoto¹, Naoyuki Sugiyama^{1,2}, Yasushi Ishihama^{1,3}

〈Luncheon Seminar〉

[4C-L] Luncheon Seminar (Presented by AMR, Inc.)

(12:45 ~ 13:45)

4C-L-1245 Cutting-edge Tools to Accelerate Metabolomics and Proteomics Research: Gelpack GL-HilicAex and Evosep (¹Niigata Univ., ²Kyushu Univ./MiB, ³Evosep Biosystems) °Kohta Nakatani^{1,2}, Michael Andersen³

〈Oral Sessions〉

[4C-02] Cutting-Edge Lipidomics Technology and Applied Research

(13:55 ~ 15:10) Chair: Takeshi Bamba (Kyushu University) / Kim Ekroos (Lipidomics Consulting Ltd)

4C-02-1355 [Keynote]Profiling of the Low-Abundance Lipidome by Selective Enrichment and Isomer-Resolved Tandem Mass Spectrometry (Tsinghua Univ.) Zidang Wang, Yichun Wang, °Yu Xia

4C-02-1410 [Invited]Remodelling of the yeast lipidome as an adaptation to temperature (¹QUT, ²UOW) °Stephen Blanksby¹, Rangika Perera¹, Reuben Young², Aurelie Benefield¹, Sonia Henriques¹, Berwyck Poad¹

4C-02-1425 Development of LC-MS methods to enhance lipidomics analysis and clinical investigation of stroke etiology (¹NTU, ²NTU Metacore) °Ching-Hua Kuo^{1,2}, Ching-Hua Lee^{1,2}, Wei-Chieh Wang^{1,2}, Chih-Ning Cheng^{1,2}

Day 4, June 25 (Wed.)

- 4C-O2-1440 [Invited]Development of a Non-Invasive Early Detection Technique for Graves' Disease Using Thyroid Hormones in Hair (¹Kazusa DNA Res. Inst., ²Aderans, ³Ito hosp., ⁴Tohoku Univ.) Kouhei Igarashi^{1,2}, Chie Takita^{1,2}, Masako Matsumoto³, Wataru Kitagawa³, Atsuko Ota², Naoko Miyazaki³, Koichi Ito³, Kazutaka Ikeda^{1,4}
- 4C-O2-1455 [Invited]Standardization and Harmonization by the International Lipidomics Society (LC Ltd) °Kim Ekroos

⟨Poster Presentations⟩

Room P (Maesato East, Foyer, Ocean Wing)

[4P-AM] Poster Session 4P-AM

Poster Display : 8 : 15 ~ 17 : 15

Core time (Odd numbers) : 9 : 15 ~ 10 : 15

Core time (Even numbers) : 10 : 15 ~ 11 : 15

- 4P-AM-01 (3C-O1-1155) ☆ Towards Rapid and Accurate Bacterial Serotyping Using MALDI Glycotyping (Hokkaido Univ.) °Shogo Urakami, Hiroshi Hinou
- 4P-AM-02 (3B-O1-1140) ☆ Single Tissue Multimodal Imaging for Cellular-level Spatial Metabolomics and Transcriptomics Analysis (¹HKBU, ²EIT Ningbo) °Thomas Ka Yam Lam¹, Bingxu Zhang¹, Jianing Wang¹, Zongwei Cai^{1,2}, Yiji Xia¹
- 4P-AM-03 Withdrawn
- 4P-AM-04 Exploring the Cellular ADP-Ribosylome in *Deinococcus radiodurans* (NTU) °Chun-Hua Hsu
- 4P-AM-05 ☆ Ultra-Fast Scanning Quadrupole Mass Spectrometry Combined with GCxGC for Comprehensive Analysis of Beverage Aroma (¹Shimadzu Corp., ²Osaka Univ.) °Kazuhiro Kawamura^{1,2}, Yu Nagao¹
- 4P-AM-06 Development of a Dual Photoionization/Electron Impact Ionization Quadrupole Mass Spectrometer (NSRL,USTC) °Jun Huang, Jiuzhong Yang, Chengyuan Liu, Minggao Xu, Yang Pan

- 4P-AM-07 Elucidating the Potential Relationship between Metabolic Reprogramming and MicroRNA Behaviors in Activated Hepatic Stellate Cells through Multi-omic Analysis (¹Kyushu Univ., ²AIST) °Tomomi Ichinose¹, Seong-Uk Lee¹, Yi-Lan Huang¹, Daisuke Miura², Motofumi Kumazoe¹, Hirofumi Tachibana¹, Yoshinori Fujimura¹
- 4P-AM-08 Optimising the Single Cell Pipeline using a Multi-Reflecting Q-ToF Platform (¹Nihon Waters K.K., ²University of Surrey, ³Waters Corporation) °Thanai Paxton¹, Scarlet Ferrinho², Lee Gethings³, Nyasha Munjoma³, Paul Townsend², Olivier Cexus², David Heywood³, Robert Plumb³, Preeti Mourya², Shazneil Briones², Clare Mills², Matt Spick²
- 4P-AM-09 Simultaneous Quantification of Areca Nut- and Tobacco-Specific Nitrosamines in Human Saliva by Liquid Chromatography-Tandem Mass Spectrometry (¹CSMU.OSH, ²CSMU.PH) °Zi-Lin Lu¹, Yin-Ting Kao¹, Chiung-Wen Hu², Mu-Rong Chao¹, Yuan-Jhe Chang¹
- 4P-AM-10 Analysis of Daily Urine Samples of Pregnant Rats Unveils Developmental Processes of Fetus as Well as Physiological Changes of Mother Rats (Beijing Normal Univ) °Youhe Gao
- 4P-AM-11 Analysis of Sulfated N-glycans as a Potential Biomarker for the Early Detection of Breast Cancer (¹Hokkaido Univ., ²De La Salle Univ., ³Addis Ababa Univ) °Dereje Feleke¹, Bryan Montalban², Solomon Gizaw³, Hiroshi Hinou¹
- 4P-AM-12 Expanded proteomics in the case of data-driven post-translational modification analysis (RIKEN CSRSCSRS) °Naoshi Dohmae
- 4P-AM-13 Precision Targeting of Ferroptosis in Colorectal Cancer : Sex and KRAS Mutation-Driven Metabolic Vulnerabilities and Drug Repurposing (¹Yale/HKBU, ²HKBU, ³Harvard, ⁴Yale, ⁵Columbia University) °Hong Yan¹, Xinyi Shen⁴, Chen Chen³, Yisha Yao⁵, Jieqing Feng², John Quackenbush³, Sajid Khan⁴, Caroline Johnson⁴
- 4P-AM-14 Derivatization methods of sialylated glycans using lactone ring-opening aminolysis and lactone-driven ester-to-amide conversion for MALDI-TOF MS analysis (¹Nagoya Univ., ²Hokkaido Univ., ³Shimadzu corp.) °Jun-ichi Furukawa^{1,2}, Takashi Nishikaze³, Masaki Kuroguchi¹, Hisatoshi Hanamatsu¹

Day 4, June 25 (Wed.)

- 4P-AM-15 (3C-O1-1225) ☆Molecular composition and imaging profiles of thrombi in acute coronary syndrome (Dokkyo Medical Univ.) °Mayo Wada, Tadayuki Ogawa, Setsu Nishino, Masashi Sakuma, Sigeru Toyoda
- 4P-AM-16 ☆Development of highly sensitive and comprehensive method for single-cell phospholipid analysis (¹Meijo Univ., ²Univ. Shizuoka, ³Yokogawa, ⁴ITO EN) °Takuma Yanagisawa^{1,2}, Eiji Sugiyama¹, Yuta Terui³, Masafumi Iharada³, Hironori Takai³, Iwao Sakane⁴, Susumu Imanishi¹, Kenichiro Todoroki², Hajime Mizuno¹
- 4P-AM-17 Using Proteomics and Metabolomics Approach to Explore Potential Early Biomarkers in Acute Respiratory Distress Syndrome Model Mice (¹Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taiwan, ²Department of Anesthesiology and Integrative Research Center for Critical Care, Wan Fang Hospital, Taipei Medical University, Taiwan, ³Department of Biomedical Sciences and Engineering, National Central University, Taiwan, ⁴Department of Biochemistry and Molecular Cell Biology, School of Medicine, College of Medicine, Taipei Medical University, Taiwan) °Po-Tsang Chen¹, Chun-Jen Huang², Yi-Chiung Hsu³, I-Lin Tsai⁴
- 4P-AM-18 ☆Investigation of Extraction-Ionization Process of t-SPESI by Current Measurement (¹GSS, Univ. Osaka, ²FRC, Univ. Osaka, ³Univ. Yamanashi) °Mengze Sun¹, Yoichi Otsuka^{1,2}, Lee Chuin Chen³, Michisato Toyoda^{1,2}
- 4P-AM-19 ☆Fundamental study of a simultaneous analytical method of pyrimidine bases and metabolites using liquid chromatography/tandem mass spectrometry (¹Tohoku Univ., ²Tohoku Univ. Hosp., ³INGEM., Tohoku Univ.) °Midori Kato¹, Masamitsu Maekawa^{1,2,3}, Eiji Hishinuma³, Masahiro Hiratsuka^{1,2,3}, Nariyasu Mano^{1,2}
- 4P-AM-20 (3A-O3-1630) ☆Investigating the distribution of azetidine-2-carboxylic acid (A2C) in plants using HILIC-MS/MS (¹UTS, ²HyMaS, ³UNSW) °Connor Phillips^{1,2}, Jake Viola³, David Bishop², Kenneth Rodgers¹
- 4P-AM-21 Identification of clenbuterol metabolites in livestock by LC-Q-Orbitrap-MS (Chiba Univ.) °Yoshikazu Yamagishi, Yuki Toda, Sayaka Nagasawa, Hirotarō Iwase, Yasumitsu Ogra
- 4P-AM-22 ☆Quantitative Proteomics of Post-Translational Modification in Parkinson's Disease Model Cells (Yokohama City Univ.) °Shunsuke Hoshina, Eri Katsuno, Daisuke Takakura, Tohru Sugawara, Nana Kawasaki
- 4P-AM-23 Metal-organic framework-based dispersive solid-phase extraction coupled with UPLC-MS/MS for analysis of mono-, di-, and triphosphoadenosine compounds (¹NTU, ²NTNU) °Yu-Meng Wang¹, Sung-Fang Chen²
- 4P-AM-24 ☆MALDI Glycotyping for O-Antigen Serotyping in *Escherichia albertii* (¹Hokkaido Univ., ²Miyazaki Pref. Inst. Public Health Environ., ³Akita Pref. Res. Cent. Public Health Environ., ⁴NIID, ⁵Jumonji Univ., ⁶Kagoshima Univ.) °Shogo Urakami¹, Yumi Okabe², Takayuki Konno³, Shinichiro Hirai⁴, Koichi Murakami⁵, Tadasuke Ooka⁶, Hiroshi Hinou¹
- 4P-AM-25 ☆Using an online GC-EI-TOF-MS for the source apportionment of an air pollution episode in March 2023 at a suburban site in Hong Kong (¹HKUST (CHEM), ²HKUST (ENVR)) °Anna Mae Vorwerk¹, Wing Sze Chow¹, Jian Zhen Yu^{1,2}
- 4P-AM-26 ☆Development of a Miniature Ultrasonic Device for Rapid Enzymatic Digestion of Protein (NCKU Chem) °Po-Yu Chou, Szu-Hsueh Lai
- 4P-AM-27 (3A-O2-1455) ☆Multimass Analysis of Adeno-Associated Virus Vectors by Orbitrap-Based Charge Detection Mass Spectrometry (¹Osaka Univ., ²Shimadzu Corp., ³Osaka Univ. Shimadzu AIRL, ⁴U-Medico Inc.) °Ryoji Nakatsuka^{1,2,3}, Yuki Yamaguchi¹, Kiichi Hirohata¹, Saki Shimojo¹, Makoto Murakami¹, Mark Allen Rocafort⁴, Yasuo Tsunaka¹, Mitsuko Fukuhara^{1,4}, Tetsuo Torisu¹, Susumu Uchiyama¹
- 4P-AM-28 ☆Residual Characteristics of Five Insecticides and their metabolites in *Cirsium japonicum* var. *spinosissimum* (¹Konkuk Univ., ²Kangwon Nat'l Univ.) °Ji-Yeon Lee¹, Min-Ho Song², Ji-Woo Yu¹, Jung-Hoon Lee², Hui-Yeon Ahn¹, Geon-Woo Park¹, Ji-Won Shin¹, Ha-Jin Son¹, Eun-Song Choi², Ji-Ho Lee²
- 4P-AM-29 Differential Proteomic Analysis of Microplastic Impact on Mouse Liver Using SWATH-Based Mass Spectrometry (NTNU) °Pei Chen Lin, Sung-Fang Chen

Day 4, June 25 (Wed.)

- 4P-AM-30 ☆Product ion species in CID spectra change depending on mass spectrometers and ionization methods (Yokohama City University) °Haruki Nagata, Yuuto Kiuchi, Yukiumi Kita, Kanako Sekimoto
- 4P-AM-31 ☆Fundamental Study on Ionization Conditions for MALDI Mass Spectrometry Imaging of Novel Agents for Boron Neutron Capture Therapy. (Univ. Osaka) °Rena Yamashita
- 4P-AM-32 (3C-O2-1440) ☆MiProChip: Microfluidic Device for Multiplexed Isotopic labeling-based Streamlined Single-cell Profiling (¹IoC, AS, ²NTU) °Huan-Chi Chiu^{1,2}, Tsai-Fang Chou¹, Sofani Gebreyesus¹, Guan-Fu Chen¹, Hsiung-Lin Tu¹, Yu-Ju Chen^{1,2}
- 4P-AM-33 Overcoming Bioanalytical Challenges in ADCs: A High-Sensitivity LC-MS Approach (Astellas Pharma Inc.) °Toshiko Yahata, Masanori Nagata, Takafumi Akabane
- 4P-AM-34 iprm-PASEF MALDI MS/MS Imaging Reveals Specialized Metabolites Produced by the Cheese Rind Microbiome (¹UCSC, ²BRUKER, ³BRUKERSG) °Wen Donq Looi³, Robert Shepard¹, Gordon Luu², Sumankalai Ramachandran², Azad Eshghi², Laura Sanchez¹
- 4P-AM-35 Proteomic Profiling of 5-Fluorouracil Resistance in Colorectal Cancer: Unveiling Molecular Signatures for Targeted Therapy (¹CBDD, Taipei Med. Univ., ²PhD CBDD, Taipei Med. Univ., ³R&D, Natl. Defense Med. Cent., ⁴GIMS, Natl. Defense Med. Cent.) °Tsui-Chin Huang^{1,2}, Tze-Ting Kuo^{2,3}, Li-Chun Lin², Hsin-Yi Chang^{3,4}
- 4P-AM-36 ☆Identification of coffee aroma using atmospheric pressure corona discharge ionization mass spectrometry (APCDI-MS) (Yokohama City Univ.) °Momomi Morita, Kanako Sekimoto
- 4P-AM-37 Development of an Automated System for the Pretreatment of Small Amounts of Samples for Radiocarbon Measurements Using Accelerator Mass Spectrometry (Univ. Tokyo) °Yosuke Miyairi, Takahiro Aze, Yusuke Yokoyama
- 4P-AM-38 Simultaneous Quantification of Antiepileptic Drugs in Serum and Dried Blood Spots using Liquid Chromatography–Tandem Mass Spectrometry (¹KRISS, ²NRC) Mariam Abady^{1,2}, Ji-Seon Jeong¹, °Ha-Jeong Kwon¹
- 4P-AM-39 ☆Development and Application of Cysteine-specific modification for LC-MS analysis (¹Sch. Sci., Kitasato Univ., ²Sch. Allied Health Sci., Kitasato Univ., ³Cent. Disease Proteomics, Sch. Sci., Kitasato Univ.) °Arisa Suto¹, Yoshihiro Ishikawa¹, Toshihide Matsumoto², Yoshio Kodera^{1,3}, Takashi Matsui^{1,3}
- 4P-AM-40 ☆Characterization of Toxin-like Peptides in the *Badumna insignis* Spider Venom (Kyoto Univ.) °Tomoya Shidawara, Rei Yamamoto, Yoshiaki Nakagawa, Masahiro Miyashita
- 4P-AM-41 ☆Elucidation of Degradation State of Glass Fiber Reinforced Polypropylene Using TG-TOFMS Coupled with Principal Component Analysis and Kendrick Mass Defect Analysis (AIST) °Taiki Ozawa, Sayaka Nakamura, Hiroaki Sato, Hideyuki Shinzawa, Hideaki Hagihara, Ryota Watanabe
- 4P-AM-42 ☆Peptidomic analysis of mouse tissues (¹Sch. Sci., Kitasato Univ., ²Sch. Med., Kitasato Univ., ³Cent. Disease Proteomics, Sch. Sci., Kitasato Univ., ⁴Kazusa DNA Research Institute) °Yusei Okuda¹, Makoto Itakura^{2,3}, Ryo Konno⁴, Tomomi Taguchi², Takeshi Miyatsuka², Takashi Matsui^{1,3}, Yusuke Kawashima⁴, Yoshio Kodera^{1,3}
- 4P-AM-43 ☆Protein Terminomics-centric Analyses of Human Noncanonical Proteomes Reveal the Diversity of Human Proteoforms (¹Kyoto Univ., ²Institute of Science Tokyo, ³NIBIOHN) °Riko Egawa¹, Hiroshi Nishida¹, Yuta Kochi², Kosuke Ogata¹, Yasushi Ishihama^{1,3}
- 4P-AM-44 ☆Simultaneous Imaging of Proteins and Metals: Nanoparticle-Based Immunoassay Combined with LA-ICP-MS (¹UTokyo, ²Juntendo Univ., ³Dow Chemical Japan) °Hiroki Nawa^{1,3}, Takehisa Matsukawa², Ayano Kubota², Takafumi Hirata¹
- 4P-AM-45 ☆Method development for untargeted metabolomics investigating biomarkers for Functional Neurological Disorder in children and adolescents. (¹CFS, UTS, ²C3, UTS, ³Centre for Chemistry, UTS, ⁴The Children's Hospital at Westmead, Australia) °Rinika Barua¹, Shanlin Fu¹, Jingyi Yan³, Unnikrishnan Kuzhiumparambil², Kasia Kozłowska⁴
- 4P-AM-46 ☆Development of Isoform-Specific Substrate Peptides for Monitoring PKC Activity (¹Kyoto Univ., ²NCVC, ³NIBIOHN) °Saki Toi¹, Junqi Liang¹, Junna Nakazono¹, Dai Sakamoto¹, Naoyuki Sugiyama^{1,2}, Yasushi Ishihama^{1,3}

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- 4P-AM-47 (2C-03-1640) ☆ Proteome-Wide Profiling of Protein Structural Dynamics by Phospho-Probing with Multiple Kinases (¹Kyoto Univ., ²NCVC, ³NIBIOHN) °Asato Maeda¹, Kosuke Ogata¹, Naoyuki Sugiyama^{1,2}, Yasushi Ishihama^{1,3}
- 4P-AM-48 ☆ Investigation of a Chiral Selective SALDI Substrate for Amino Acids Using MHD Effect (NIT) °Hiroki Tanaka, Yoshinori Iiguni, Shinya Kitagawa
- 4P-AM-49 ☆ Metabolomic analysis of extracellular vesicles released by cellular senescence (¹Keio Univ., ²NCC) °Ryosuke Hayasaka¹, Sho Tabata^{1,2}, Tomoyoshi Soga¹, Akiyoshi Hirayama¹
- 4P-AM-50 ☆ Mass spectrometry reveals the stoichiometric regulation and phosphorylation for early stage activation of NLRP3 inflammasome (¹IBC, Academia Sinica, ²IBS, NTU) °Ning-En Chang¹, Yen-Ling Chen^{1,2}, Hsin-Yung Yen^{1,2}
- 4P-AM-51 ☆ Single-Molecule-Mediated Proton Transfer in Protonated Aminocinnamic Acid: Studied by Ion Mobility-CID-Mass Spectrometry (Tohoku Univ.) °Kengo Tsunoda, Daiki Fuse, Keijiro Ohshimo, Fuminori Misaizu
- 4P-AM-52 ☆ The effect of orthokeratology lens wear on the proteins of tear fluid (¹Menicon, ²Nagoya Univ.) °Madoka Yoshimitsu¹, Yuri Shimizu¹, Hikaru Hirata¹, Keiko Kano², Emi Mishiro-Sato², Taizo Sumide¹
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- 4P-PM-02 Dielectric Breakdown-based Ambient Ionization Mass Spectrometry (NYCU) Min-Li Wu, Te-Yu Chen, De-Yi Huang, Jia-Jen Tsai, Karupuchamy Selvaprakash, Chin-Pao Chiu, Yi-Ying Wu, °Yu-Chie Chen
- 4P-PM-03 Mass Spectrometry Imaging of Crude Drugs Using Transfer Plates (¹Kyushu Univ. Med. Sci., ²Hamamatsu Univ. Sch. Med., ³Preppers, ⁴Hamamatsu Photonics) °Hisahiro Kai¹, Takumi Sakamoto^{2,3}, Takamasa Ikeda⁴, Yutaka Takahashi^{2,3}, Mitsutoshi Setou^{2,3}
- 4P-PM-04 ExD vs. EthCD: A Comparative Study for Top-Down Sequencing of Amphibian Disulfide Peptides (¹MSU-BIT, ²Agilent, ³Univ. Hong Kong) °Dmitrii Mazur¹, Tatiana Samgina¹, Yanan Li³, Michael Hare², Yuriy Vasil'ev², Albert Lebedev¹
- 4P-PM-05 A Comprehensive Strategy for Systematically Evaluating the Clinical Significance of Multiple Protein Biomarker Candidates in Bladder Cancer (¹Chang Gung University, ²Chang Gung Memorial Hospital) °Yi-Ting Chen¹, Chien-Lun Chen²
- 4P-PM-06 AIST apps for analyzing various types of mass spectral/chromatogram data by data informatics techniques (AIST) °Hideyuki Shinzawa, Shogo Yamane, Ryota Watanabe, Taiki Ozawa, Sayaka Nakamura, Hideaki Hagihara
- 4P-PM-07 Quantitative analysis of tridecylcyclohexane in mice using SPME-GC/MS (¹GSS Univ. Osaka, ²NIBIOHN, ³IPR Univ. Osaka) °Junichi Osuga¹, Fuminori Iijima², Yoshiatsu Aomine³, Toyomasa Katagiri², Michisato Toyoda¹
- 4P-PM-08 Study of Negative Differential Resistance and Ion Emission Characteristics from a Taylor Cone of Undiluted Ionic Liquid Using High-Pressure ESI (Univ. Yamanashi) °Lee Chuin Chen, Takeshi Matsuda
- 4P-PM-09 Investigation of correlation between glucoamylase and *haze-komi* in rice *koji* (¹Osaka Univ., ²Institute for Open and Transdisciplinary Research Initiatives) °Hiroko Shinoda¹, Eiichiro Fukusaki^{1,2}, Shuichi Shimma²
- 4P-PM-10 MALDI Mass Spectrometry Using 2D Nanomaterial MXene for Rapid Screening of Illicit Drugs (KRIS) Jiyeong Song, Ji-In Baek, °Sohee Yoon
- 4P-PM-11 Structure Analysis of Alkaloids in Pt-coated Porous Plate MALDI Mass Spectrometry using a Spiral TOF Instrument. (¹NAIST, ²SUNBOR) °Yoshiko Nishikawa¹, Tohru Yamagaki²
- 4P-PM-12 Exploration of Biomarkers Related to Metabolic Syndrome Induced by Atypical Antipsychotics (¹Grad.Sch.Pharm.Sci,Tohoku·Univ., ²Grad.Sch.Pharm.Sci,Tohoku·Univ./Dept.Pharm.Sci,Tohoku·Univ,Hosp) °Haozhu Wang¹, Masamitsu Makawa², Nariyasu Mano²
- 4P-PM-13 High multiplexity imaging proteomics via tissue expansion (HKBU) °Xin Diao, Jianing Wang, Zongwei Cai

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- 4P-PM-14 Ambient Ionization Mass Spectrometry for Rapid Characterization of Biomarkers on Inflamed Skin (NSYSU, Taiwan) °Shu-Yao Lin, Jentaie Shiea
- 4P-PM-15 Quantitative Analysis of Endogenous Neuropeptide Y in Developing Brains of Mice and Appetite formation (°SUNBOR, °Kanazawa Univ., °Hamamatsu Univ. of Medicine) °Tohru Yamagaki¹, Tomohiro Osugi¹, Yohei Shinmyo^{2,3}, Hiroshi Kawasaki², Honoo Satake¹
- 4P-PM-16 Mass Spectrometry Analytical Tools in the Dating of the Chinese Ancient Scrolls (°MSU-BIT University, °LECO, USA) °Olga Poliakova¹, Maria Kondratyeva¹, Zhuangzhi Li¹, Viatcheslav Artaev², Jonell Shiel², Scott Pugh², Albert Lebedev¹
- 4P-PM-17 Characterization of Flavor Components in Rice *Koji* during the *Koji* Molding Process (Osaka Univ) °Kansuke Fujikawa
- 4P-PM-18 Biologically Informative NA Deconvolution (BIND) promotes excavation of unique proteins and protein-protein interactions from proteomics datasets (CityUHK) °Weiheng Guo, Liang Zhang
- 4P-PM-19 Development of mass spectrometry-based single-cell multi-omics analysis (°Kyushu Univ., °RIKEN CBS, °YODAKA., °Niigata Univ., °RAP) °Kosuke Hata¹, Asako Sakaue-Sawano², Masatomo Takahashi¹, Mamoru Hirafuji³, Kohta Nakatani¹, Masaki Matsumoto⁴, Takeshi Bamba¹, Atsushi Miyawaki^{2,5}, Yoshihiro Izumi¹
- 4P-PM-20 Comparison of protease activity in different malting methods using mass spectrometry imaging (°Osaka Univ., °OTRI) °Tomoka Takeno¹, Eiichiro Fukusaki^{1,2}, Shuichi Shimma^{1,2}
- 4P-PM-21 UPLC-MS/MS Analysis of PFAS for Evaluation of its Removal from Drinking Water with Granular Activated Carbon (NTU EOHS) °Siao-Tong Chen, Gen Shuh Wang
- 4P-PM-22 Branched-Chain Amino Acid Metabolism as a Crucial Modulator of Cellular Senescence (Gunma Univ) °Hideru Obinata, Kazuki Irie, Yuma Aramaki, Junki Hoshino, Yoji Minamishima, Akimitsu Konishi
- 4P-PM-23 Repurposing Statins Induces Metabolic Reprogramming and Triggers Ferroptotic Regression in KRAS-Mutant Colorectal Cancer (HKBU) °Jieqing Feng, Hong Yan, Zongwei Cai
- 4P-PM-24 Development of Phosphoproteomics Prediction Model for Next-line Therapy in TKI-Resistant Non-Small Cell Lung Cancer (°NTU Chem, °IoC, °NTNU, °NTU CliLab) °Irene-Ya Tai^{1,2}, Chiao-Chun Chang², Shen-Shian Chan^{1,2}, Yu-Hsuan Lin^{2,3}, Yi-Ju Chen², Sung-Liang Yu⁴, Yu-Ju Chen^{1,2}
- 4P-PM-25 Structural Analysis of Anion Exchange Membranes for Alkaline Water Electrolysis via Thermal and Chemical Depolymerization Methods (Toray Research) °Tsuayoshi Akiyama, Akihiro Masuda, Naru Higeta, Keiko Matsuda
- 4P-PM-26 Developing OrthoCell Matrix to Enhance Absolute Protein Quantification Performance in LC-MS/MS: Demonstration of EGFR Mutation in Lung Cancer (°NTU, °IOC) °Chia-Yen Wang^{1,2}, Huan-Chi Chiu², Li-Yu Chen², Ching-Yi Wan², Yu-Ju Chen^{1,2}
- 4P-PM-27 Single-cell native mass spectrometry of cultured human cells for characterization of protein non-covalent interactions (Yokohama City Univ.) Noa Suzuki, Yuko Inatomi, °Michiko Tajiri, Tsuyoshi Konuma, Satoko Akashi
- 4P-PM-28 Proteomic Analysis of Sebocytes Co-Cultured with Mesenchymal Stem Cells (CNU) °Maryam Adelipour, Jeongkwon Kim
- 4P-PM-29 High-Throughput Synthesis of Stable Isotope-Labeled Peptides Using Synthetic ssDNA Oligo Pools. (RIKEN BDR) °Reiko Nakagawa, Keiko Masuda, Aya Sato, Yoshihiro Shimizu
- 4P-PM-30 Determination of Antifouling Booster Biocides in Seawater using Semi-automatic Solid-Phase Extraction (SPE) System and High-performance Liquid Chromatography-Tandem Mass Spectrometry (NPUST) °Tzu Wang, Te Kung
- 4P-PM-31 Exploration of Endogenous Metabolites Associated with Immune Responses in Bovine Serum (Osaka Univ.) °Hiroko Kato, Sicheng Tian
- 4P-PM-32 Targeted Metabolomics Reveals the Essential Role of Nicotinamide Mononucleotide Adenylyltransferase (NMNAT) in Nicotinamide Adenine Dinucleotide (NAD⁺) Homeostasis in the Cyanobacterium *Synechococcus elongatus* (°HKBU/Chem, °HKBU/Bio, °EIT) °Feng Zhang¹, Hai Lei Zhang², Peng Xi Wang², Yiji Xia², Zong Wei Cai^{1,3}

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- 4P-PM-33 MS Spectrometry based Proteomic Analysis of Bovine Serum for Development of Cell Culture Media (¹KBSI, ²KBSI_2, ³KRIBB, ⁴UST) °Soojin Park¹, Hae Min Ju², Jin Young Kim^{2,3}, Heeyoun Hwang^{2,4}
- 4P-PM-34 Comprehensive Analysis and Detailed Data Comparison of Skin Gas and Its Changes Using High-Sensitivity GCxGC-TOFMS (LECO) °Masafumi Sakurai, Fumie Kabashima
- 4P-PM-35 Comparative Metabolic Profiling of Honey Bees (*Apis Mellifera*) in Response to Regional Differences and Climate Change in South Korea. (KIT) °Sung-Gil Choi, Yoon-Jeong Jeon, Jin-Woo Park, Won Noh, Jong-Su Seo, Jong-Hwan Kim
- 4P-PM-36 The Development of the Cryogenic Ion Trap-TOF Mass Spectrometry for Infrared Photodissociation Spectroscopy (¹Ningbo University, ²Fudan University) °Chuan-Fan Ding¹, Fuxing Xu¹, Guanjun Wang², Chaoxian Chi¹, Yinghua Yan¹, Mingfei Zhou²
- 4P-PM-37 Metabolomic Analysis of Honey Bees (*Apis Mellifera*) Response to Coumaphos Exposure Using UPLC-Q-TOF/MS (KIT) °Jin-Woo Park, Yoon-Jeong Jeon, Sung-Gil Choi, Won Noh, Jong-Su Seo, Jong-Hwan Kim
- 4P-PM-38 Spectra-Sum Method for Protein Quantification from LC-MS/MS and TMT labeling Data (¹KBSI, ²UST-KBSI, ³CDDC Research Center) °Heeyoun Hwang^{1,2}, Hahyun Lee^{1,3}, Geul Bang¹, Jin Young Kim^{1,3}
- 4P-PM-39 Optimization and Performance Evaluation of a Portable GC for the Detection of Volatile Organic Compounds and Its Compatibility with APCI-MS (¹CNU, ²BIONEER, ³Chungnam National Univ.) °Jiwon Park¹, Sunjong Baek², Jeongkwon Kim³
- 4P-PM-40 Dependence of Decoy Database on Peptide Identification Numbers in Bottom-Up Proteomics (¹Kyoto Univ., ²NIBN) °Yuichiro Fujita¹, Yasushi Ishihama^{1,2}
- 4P-PM-41 Comparison of PEG Precipitation and Ultrafiltration for Serum Exosome Enrichment: Proteomic Analysis Using Mass Spectrometry (¹CNU, ²Chungnam National Univ.) °Hyeongyu Yu¹, Jeongkwon Kim²
- 4P-PM-42 Structures of (Li⁺T)_nLi⁺ Cluster Ions Solvated by Ethylenediamine (POSTECH) °Yun-seop Choi, Jongcheol Seo
- 4P-PM-43 Charge-Induced Unzipping Pathways Compared with DNA/RNA Hairpins Melting Using IMS-MS (POSTECH) °Dahye Im, Jongcheol Seo
- 4P-PM-44 Phosphotyrosine Spectral Library-enhanced DIA-PRM Mass Spectrometry Enables Machine Learning-powered Companion Biomarker Discovery in Lung Cancer (¹Dept. of Chemistry, NTU, Taiwan, ²IoC, AS, Taiwan, ³Dept. of Chemistry, NTNU, Taiwan, ⁴Dept. of BST, NTU, Taiwan) °Shen-Shian Chan^{1,2}, Chiao-Chun Chang^{1,2}, Irene-Ya Tai^{1,2}, Yu-Hsuan Lin^{2,3}, Yi-Ju Chen², Sung-Liang Yu⁴, Yu-Ju Chen^{1,2}
- 4P-PM-45 SALDI-MS using Particle Aggregation-Type Substrates with Two-Dimensional Lattice-like Patterning of Magnetic Nanoparticles on Soft Magnetic Microgrids (Nagoya Inst. Tech.) °Yoshinori Iiguni, Mai Sakamoto, Shuta Sawatari, Shinya Kitagawa
- 4P-PM-46 High resolution multi-turn TOF-MS for native mass analyses of large biomolecules (¹Shimadzu Corporation, ²Osaka Metropolitan Univ., ³Yokohama City Univ.) Yusuke Tateishi¹, Hiroko Morinaga¹, Hiroyuki Miura¹, Yoshinori Arita¹, °Masaru Nishiguchi¹, Daisuke Okumura¹, Hitomi Sawai², Michiko Tajiri³, Terukazu Nogi³, Satoko Akashi³
- 4P-PM-47 Comprehensive Mapping of Nucleosome-Nuclear Protein Interactions Using Cross-linking Mass Spectrometry (IQB, UTokyo) °Lumi Negishi, Tomoko Ito, Junko Kato, Tomoya Kujirai, Hitoshi Kurumizaka
- 4P-PM-48 Evaluation of contamination sources of metal elements by monitoring for airborne materials in the cleanroom at extraterrestrial sample curation facility (¹JAXA, ²Marine Works Japan) °Arisa Nakano¹, Ryota Fukai¹, Yuya Hitomi², Masahiro Nishimura¹
- 4P-PM-49 Ensuring Depth and Completeness in m/z Selection: A Methodological Approach to Mass Spectrometry Imaging Data Summarization Using UMAP (¹Shimadzu Corp., ²Doshisha Univ.) °Shinichi Yamaguchi¹, Masaya Ikegawa²
- 4P-PM-50 Sensitive methods for characterization of the HLA-DR immunopeptidome of extracellular vesicles from immune cells from bronchoalveolar lavage in respiratory disease (¹Karolinska inst, ²Karolinska Inst) Benedikt Zohrer¹, Iryna Kolosenko¹, Nicole Wagner¹, Magnus Skold¹, Akos Vegvari², °Asa Wheelock¹

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〈Corporate Posters〉

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4P-CP-02 COMPREHENSIVE AND HIGH-THROUGHPUT PLASMA PROTEOME PROFILING FOR BIOMARKER DISCOVERY USING A MODIFIED THERMO SCIENTIFIC™ ORBITRAP™ ASTRAL™ MASS SPECTROMETER (¹Thermo Fisher Scientific San Jose, ²Thermo Fisher Scientific Singapore) Jared Deyarmin¹, ^oNicole Zhang²

4P-CP-03 HIGH-THROUGHPUT PLASMA PROTEOMICS PIPELINE ENHANCED BIOMARKER DISCOVERY IN EARLY DETECTION OF NON-SMOKING LUNG CANCER (¹National Taiwan University, ²Academia Sinica Taipei, ³Academia Sinica, ⁴Thermo Fisher Scientific San Jose, ⁵Thermo Fisher Scientific Singapore, ⁶National Taiwan University Hospital, ⁷Chung Shan Medical University Hospital, ⁸National Taiwan University Hospital and National Taiwan University Hospital and National Taiwan University College of Medicine, ⁹National Taiwan University Hospital, Taipei, ¹⁰Thermo Fisher Scientific Poland) Sung-Liang Yu¹, Yi-Ju Chen², Kun-Hao Chang^{2,3}, Yi-Shuang Chuang², Yi-Jing Hsiao², Chong-Jen Yu⁶, Daniel Hermanson⁴, Gee-Chen Chang⁷, Jin-Shing Chen⁸, Pan-Chyr Yang⁹, Yu-Ju Chen², Maciej Bromirski¹⁰, ^oNicole Zhang⁵

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Dikler, Sergei 1P-PM-17
Ding, Chuan-Fan ○4P-PM-36
Ding, Li ○1P-LB-10
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Huang, Jun ○4P-AM-06
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- Jackson, Rachel ○2A-O3-1640 (3P-AM-52)

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Kato, Lucilia ○2P-PM-46
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Kim, Changyun ○1P-LB-08
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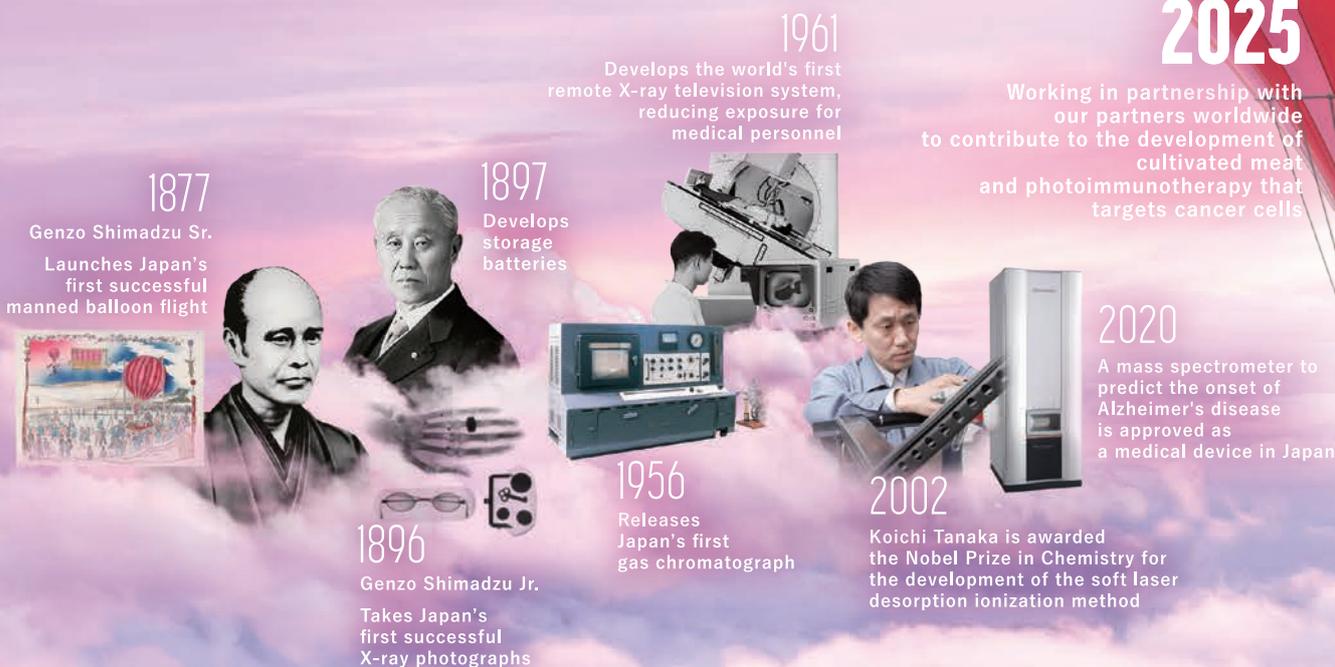
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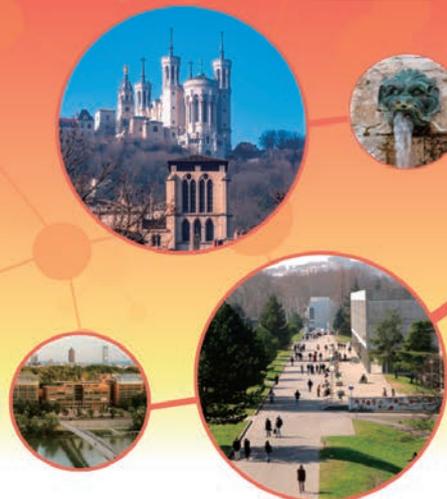
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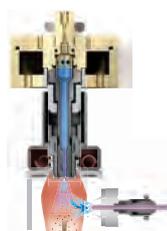
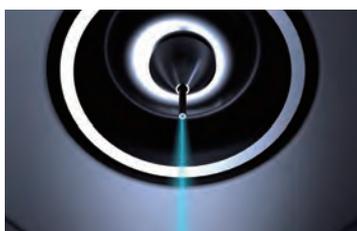
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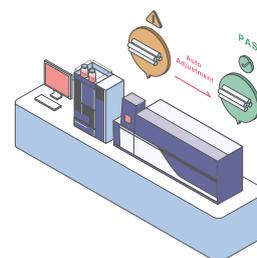
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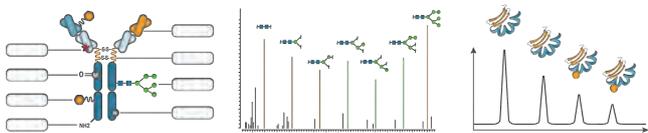
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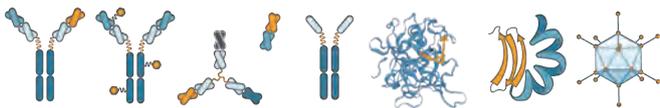
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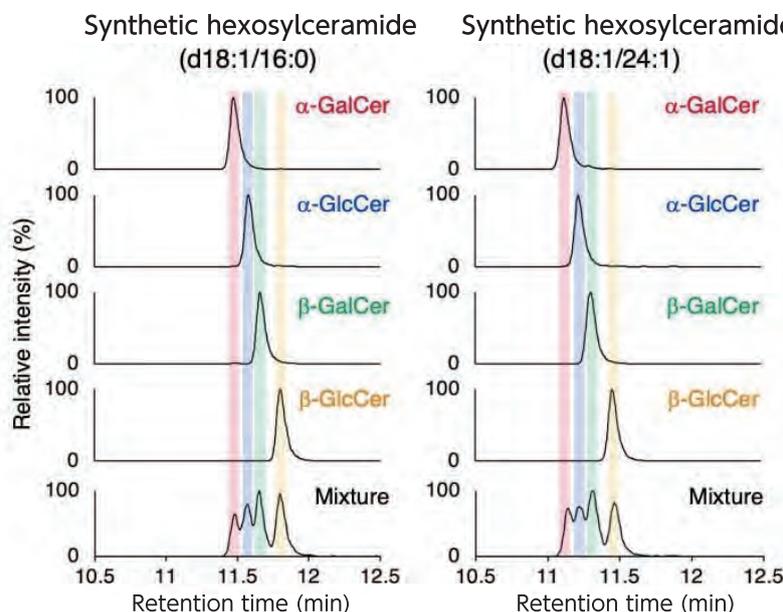
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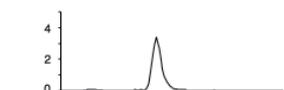
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1) Separation of four isomers (α -GalCer, β -GalCer, α -GlcCer, β -GlcCer) using SFC-MS.

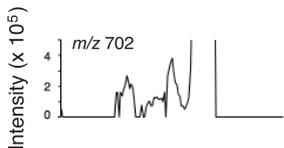


2) Detection of α -GalCer (d18:0/16:0) in serum by SFC-MS

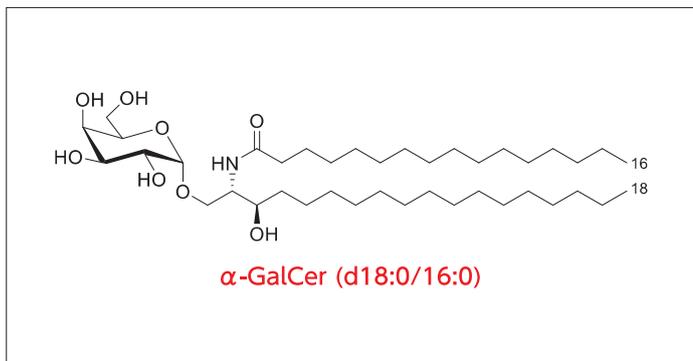
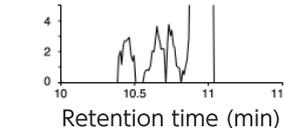
Synthetic α -GalCe
(d18:0/16:0)



Serum



Serum
+ α -GalCer spike



SFC conditions

SFC Column : Two metal-free P4VP column (2.1mm x 150mm, 3 μ m)
 Column temp. : 40°C
 Flow rate : 0.8mL/min
 Make-up(MS) : 0.1mL/min
 Back pressure regulator : 10MPa
 Injection volume : 5 μ L
 Mobile phase A : CO₂
 B : ammonium acetate in MeOH/H₂O (95/5, v/v)

Gradient conditions

Time (min)	B (%)
0.0	1
1.0	1
15.0	45
35.0	45
35.1	1
45.0	1

Reference; "Identification of alpha-galactosylceramide as an endogenous mammalian antigen for iNKT cells" : Yuki Hosono, Noriyuki Tomiyasu, Hayato Kasai, Eri Ishikawa, Masatomo Takahashi, Akihiro Imamura, Hideharu Ishida, Federica Compostella, Hiroshi Kida, Atsushi Kumanogoh, Takeshi Bamba, Yoshihiro Izumi and Sho Yamasaki
 DOI: <https://doi.org/10.1084/jem.20240728>

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