

8TH ASIA-OCEANIA MASS SPECTROMETRY CONFERENCE CONFERENCE PROGRAM

UNIVERSITY OF MACAU

5 – 7 JANUARY 2020



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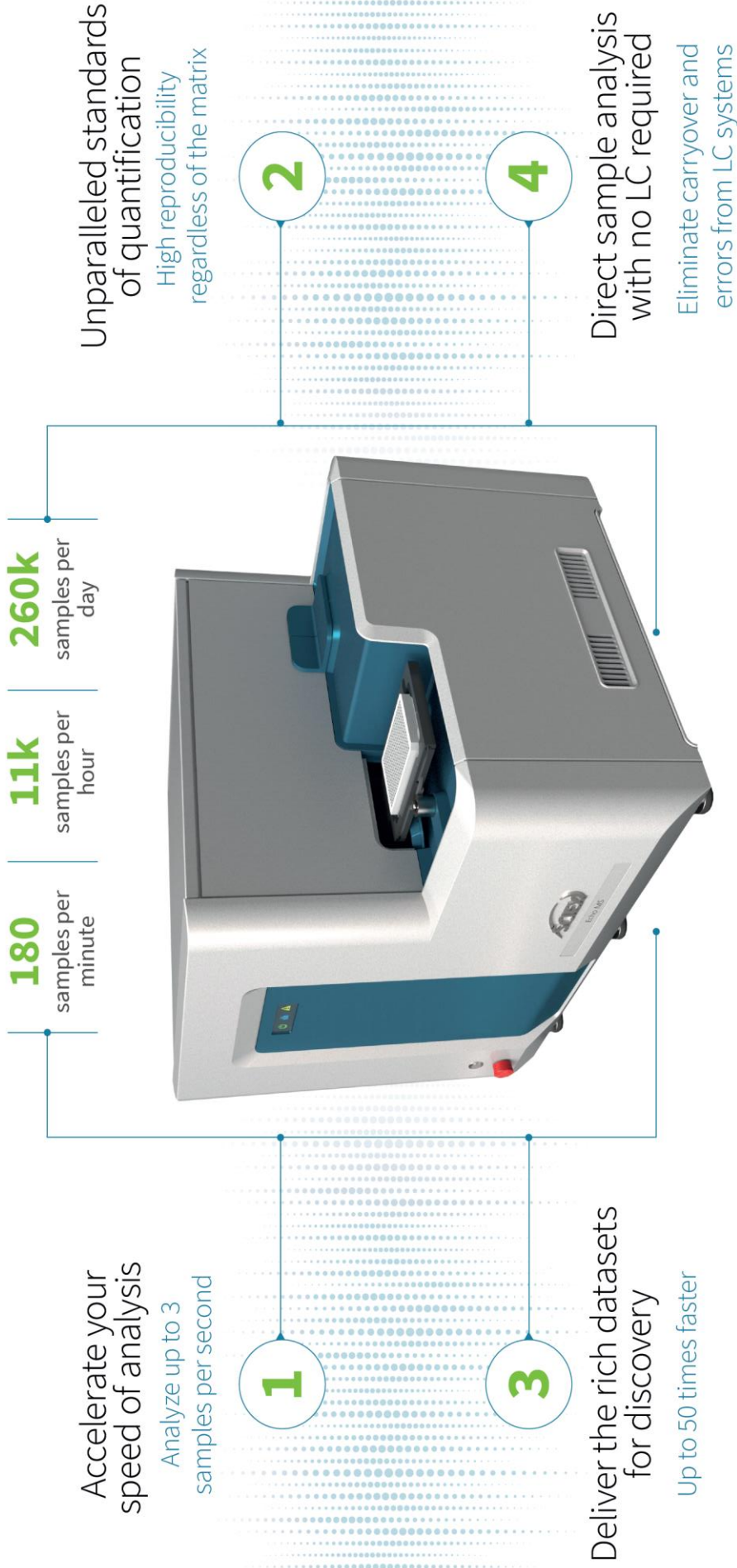


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WELCOME MESSAGE

Dear Colleagues:

On behalf of the Local Organizing Committee and the International Committee, we are honored to welcome you to the 8th Asia-Oceania Mass Spectrometry Conference (AOMSC), held at the University of Macau from the 5th to the 7th of January, 2020. The AOMSC was established to showcase the best in mass spectrometry research from around Asia and Oceania, while also nurturing the next generation of scientists through special educational sessions and the traditional Young Scientist Forum. The conference has proven successful as a forum for fostering new and exciting collaborations in the region, having been held previously in Japan (2010, 2012), South Korea (2011), Taiwan (2013), China (2014), Australia (2015), and Singapore (2017).

This year, the University of Hong Kong, the Hong Kong Society of Mass Spectrometry, the Institute of Chinese Medical Sciences at the University of Macau, the Hong Kong Proteomics Society, and the Macau Pharmacological Society are proud to be co-hosting the meeting in Macau. The overall theme of the conference is “The Art and Science of Mass Spectrometry: From Fundamentals to Applications.” The scientific sessions within this theme will span three days, including more than 20 educational/introductory talks delivered by distinguished scientists from Asia, Oceania, and beyond.

We take this opportunity to thank all of you for participating in AOMSC 2020 and for sharing your discoveries and breakthroughs in mass spectrometry. With your support, we are confident that the next few days will result in a very successful conference. We hope that all of you will enjoy the 8th AOMSC, as well as your stay in Macau!

Yours sincerely,



Ivan K. Chu
*The University
of Hong Kong*



Simon Lee
*University of
Macau*



Zongwei Cai
*Hong Kong
Baptist
University*



Zhongping Yao
*Hong Kong
Polytechnic
University*



Andy Chi-Kit Siu
*City University of
Hong Kong*

January 2020 *Hong Kong & Macau*

WELCOME FROM THE INTERNATIONAL COMMITTEE

The International Committee of the Asia-Oceania Mass Spectrometry Conference (AOMSC) is pleased to welcome all participants to the 8th AOMSC, held in Macau, China, on January 5–7, 2020, hosted by the Hong Kong Society of Mass Spectrometry (HKSMS) under the theme, “The Art and Science of Mass Spectrometry: From Fundamentals to Applications.” While the AOMSC was held annually from its first (Tsukuba, 2010) to the sixth (Brisbane, 2015) conferences, it has since been scheduled as a biennial event—to be held every odd year—with the seventh conference in Singapore (2017) and this present event in Macau (belatedly, in 2020). The next AOMSC is planned for 2021 at Jeju, an amazing and beautiful Korean island. Building upon the great efforts of the past seven conference organizers and their mass spectrometry (MS) societies in Asia and Oceania, the AOMSC continues to offer MS researchers the opportunity to discuss the latest achievements and applications in all aspects of MS-related research. We hope that the AOMSC will remain an open platform not only for sharing scientific ideas but also for extending friendships among the participants. We thank all of our enthusiastic participants: world-renowned scholars, active leaders, promising students, and delegates!

See you in Macau!



Myeong Hee Moon

Chair of the International Committee, AOMSC

LOCAL ORGANIZING COMMITTEE

Ivan K. Chu	University of Hong Kong
Simon Lee	University of Macau
Zhongping Yao	Hong Kong Polytechnic University
Andy Chi-Kit Siu	City University of Hong Kong
Zongwei Cai	Hong Kong Baptist University
Henry H. N. Lam	Hong Kong University of Science and Technology
Simon W. Chan	Hong Kong University of Science and Technology
Zhao Qian	Hong Kong Polytechnic University
Xiang David Li	University of Hong Kong
Kono Lemke	University of Hong Kong
Kwan-Ming Ng	Shantou University
Vengatesen Thiagarajan	University of Hong Kong
Terence Poon	University of Macau
Hongzhe Sun	University of Hong Kong
Gavin Reid	University of Melbourne
Melody Wong	Hong Kong Polytechnic University
Daniel Spencer	University of Hong Kong
Jess Kuok	University of Macau

INTERNATIONAL SCIENTIFIC COMMITTEE

Gavin Reid	University of Melbourne	Australia
Richard O'Hair	University of Melbourne	Australia
K. W. Michael Siu	University of Windsor	Canada
Guibin Jiang	Chinese Academy of Sciences	China
Huwei Liu	Peking University	China
Xinrong Zhang	Tsinghua University	China
Chi Ming Che	University of Hong Kong	Hong Kong SAR, China
Ivan K Chu	University of Hong Kong	Hong Kong SAR, China
Zongwei Cai	Hong Kong Baptist University	Hong Kong SAR, China
R. K. Vatsa	Bhabha Atomic Research Centre	India
Mitsuo Takayama	Yokohama City University	Japan
Yoshinao Wada	Osaka University	Japan
Jos Oomens	Radboud University	Netherlands
Qingsong Lin	National University of Singapore	Singapore
Myeong Hee Moon	Yonsei University	South Korea
Chien-Chen Lai	National Chung Hsing University	Taiwan
Jentaie Shiea	National Sun Yat-Sen University	Taiwan
Joseph A. Loo	University of California, Los Angeles	USA

HISTORY OF THE AOMSC

The inaugural Asia-Oceania Mass Spectrometry Conference (AOMSC) was held in Tsukuba, Japan, in 2010. Since then, it has been presented six more times by enthusiastic scholars and mass spectrometry societies in various parts of Asia and Oceania. In 2020, the AOMSC is being held in Macau for the first time, hosted by the Hong Kong Society of Mass Spectrometry (HKSMS). Over the last decade, the AOMSC has become an excellent event for communication among regional scientists and students, allowing the exchanging of ideas and the sharing of research results and experiences. This platform continues to be nurtured by contemporary scientists and will hopefully remain for future generations. Here, I bring to your attention the distinguished individuals and societies that have made great contributions in organizing the previous AOMSC events. With their efforts and devotion, the mass spectrometer has become an indispensable instrument in Asia and Oceania for researchers investigating food and drug safety, environmental sciences, biomedicine, pharmaceuticals, and more.

Organizers and Hosting Societies of AOMSC Events (2010–2020):

<i>Year</i>	<i>Hosting Society</i>	<i>Chairman of the Organizing Committee</i>	<i>City</i>
2010*	MSSJ, Mass Spectrometry Society of Japan (since 1953)	Prof. Mitsuo Takayama (Yokohama City Univ.)	Tsukuba
2011	KSMS, Korean Society for Mass Spectrometry (since 1989)	Prof. Jong Shin Yoo (Korea Basic Sci. Inst.)	Busan
2012**	MSSJ, Mass Spectrometry Society of Japan (since 1953)	Prof. Yoshinao Wada (Osaka Univ.)	Kyoto
2013	TSMS, Taiwan Society for Mass Spectrometry (since 2003)	Prof. Yu-Ju Chen (Academia Sinica)	Taipei
2014	CMSS, Chinese Mass Spectrometry Society (since 1980)	Prof. Huwei Liu (Peking Univ.)	Beijing
2015	ANZSMS, Australia and New Zealand Society for Mass Spectrometry (since 1970)	Prof. Steven Blanksby (Queensland Univ. of Tech.)	Brisbane
2017	SSMS, Singapore Society for Mass Spectrometry (since 2005)	Prof. Maxey Chung (National Univ. of Singapore)	Singapore
2020	HKSMS, Hong Kong Society of Mass Spectrometry (since 1998)	Prof. Ivan Chu (Univ. of Hong Kong)	Macau

*Co-founders of the AOMSC: (1) Prof. Yoshinao Wada (MSSJ), (2) Prof. Seung Koo Shin (KSMS), and (3) Prof. Jentaie Shiea (TSMS). **Held as a joint conference with the 12th IMSC.



Images of photos provided by Professor Yoshinao Wada

Jentaie Shiea,
Professor of Chemistry, National Sun Yat-Sen University, Kaohsiung, Taiwan

The 2nd AOMSC at Busan, Korea

The Korean Society for Mass Spectrometry (KSMS) hosted the second Asia-Oceania Mass Spectrometry Conference (AOMSC) at Busan, the beautiful beach town of Korea. The theme of the 2nd AOMSC was “In Mass Spectrometry, We Unite.” It was held jointly with the 2011 annual KSMS meeting in the Busan Exhibition & Convention Center (BEXCO) on August 17–19, 2011. The number of registered participants was 840 (419 from KSMS, 121 from other AOMS societies, 150 from sponsors, and 150 for tutorial courses).

On the first day, a tutorial lecture was given by Prof. Carlito B. Lebrilla (UC Davis, USA) and one workshop on “Food Safety” was offered.

On the second day, four KSMS sessions (“MALDI MS Applications,” “Industrial Applications of MS,” “Environmental and Forensic MS Applications”) and three AOMSC sessions (“Mass Spectrometry-Driven Proteomics,” “Recent Advances in Metabolomics,” “Fundamentals of Mass Spectrometry I”) were held in parallel, along with the presentation of all odd-numbered posters in the Lobby. During the lunch break, the AOMSC steering committee meeting was held to select the locations of the AOMSC for the next five years: Kyoto, Japan for 2012, Taipei, Taiwan for 2013, Singapore for 2014, Australia/New Zealand for 2015, and Beijing, China for 2016. In the evening, Prof. R. Graham Cooks (Purdue Univ., USA) gave a plenary lecture at the Convention Hall followed by the banquet and Korean traditional dancing performances.

On the third day, six AOMSC sessions (“Novel MS for Biomedical and Environmental Applications,” “Advances in Analytical Techniques for Separation and MS Detection,” “Probing Protein Structures using Mass Spectrometry,” “Application of Mass Spectrometry to Nuclear Materials Analysis,” “New Developments in Ionization Methods,” “Fundamentals of Mass Spectrometry II: Odd-electron tandem mass spectrometry”) were held in parallel, along with the presentation of all even-numbered posters in the Lobby. The morning session started with a special lecture presented by Prof. Marcos N. Eberlin (Univ. Campinas, Brazil). In the afternoon, Dr. Yoshinao Wada (Osaka Medical Center, Japan) delivered a plenary lecture at the APEC Hall. The final event of the conference was the student's poster award ceremony. Fifteen out of 278 posters were selected for the award.



The 2nd AOMSC was supported by the National Research Foundation (NRF) of Korea as an NRF International Forum. The goal of the forum was to show excellent research outputs from Korean mass spectrometry scientists to the world, to activate mutual cooperation among top-notch scientists, to exchange information about recent trends in research interest, and to expand the knowledge network in the Asia and Oceania region.

Seung Koo Shin,
Professor of Chemistry, Pohang Univ. Sci. Tech.,
Pohang, Korea

JOURNAL OF MASS SPECTROMETRY

SPECIAL ISSUE

We are writing to invite you to participate in a special issue of the *Journal of Mass Spectrometry* (*JMS*) to coincide with the 8th Asia-Oceania Mass Spectrometry Conference (AOMSC). This issue will be an excellent showcase for outstanding mass spectrometry-related research coming out of the Asia-Oceania region.

We are aiming to publish the special issue online in June 2020, so we kindly ask that you submit your manuscript by February 29, 2020. The details of the submission process will be made available to those who indicate their eagerness to contribute. Please send an email (to ikchu@hku.hk) to inform us of one of the following three options:

- (1) You will definitely submit an article to the special issue;
- (2) You plan to submit an article, but cannot guarantee it; or
- (3) You will definitely not contribute an article.

We hope to receive your decision shortly.

Best wishes,



Ivan K. Chu, Guest Editor of the AOMSC 2020 *JMS* Special Issue

JMS Special Issue Editorial Committee: Professors Richard O'Hair (Australia), K. W. Michael Siu (Canada), Guibin Jiang (China), Yoshinao Wada (Japan), Han Bin Oh (Korea), Jentaie Shiea (Taiwan), Newman Siu Kwan Sze (Singapore), and Peter Armentrout (USA)

ACKNOWLEDGEMENTS



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GENERAL INFORMATION

Registration

4th January 2020

14:00-21:00 Regency Art Hotel

14:00-21:00 University Hostel

5th January 2020

The registration desk is located in **N2 (University Hall)** from **8:00 to 11:20**, and moved to the **N1 Foyer, Ground Floor, N1 Building** after **11:20 until the end of scientific program**. Please note that there are no registration desks in Regency Art Hotel and University Hostel.

Notes for Oral Presenters

The oral sessions will take place in the N1 Building, N2 Building, N21 Building, and N22 Building (6th January only).

Instructions

All presentations will be made using the provided computers, running Windows 10 and Microsoft PowerPoint.

Speakers should transfer their presentations to the provided computer 30 minutes before the beginning of the session. Presentations should be previewed at that time.

Durations of presentations

Please carefully review the program for the lengths of the oral presentations.

Non-Parallel Lectures (Introductory/Educational)	25 minutes + 5 minutes for introductions and questions
20-Minute Slots	17 minutes + 3 minutes for introductions and questions
15-Minute Slots	12 minutes + 3 minutes for introductions and questions
10-Minute Slots	9 minutes + 1 minute for introductions and questions
Poster Flash Talk	1 minute (ONE slide only , no questions)

Notes for Poster Presenters

Each poster will be assigned a number corresponding to a poster board in the Poster and Vendor Room, N1 Building. The maximum poster dimensions are 100 cm × 200 cm (width × height).

Poster presenters are requested to mount their posters on **Sunday 5th January between 11:00 and 11:15**. Posters should be displayed until the conference closes at **16:00 on Tuesday 7th January**.

Please see the poster presentation schedule for the times during which posters will be presented by their authors.

N22 Lecture

N21 Lecture

N2 University Hall

Posters and Vendor Room
(Posters, Sponsor Exhibits and buffet)

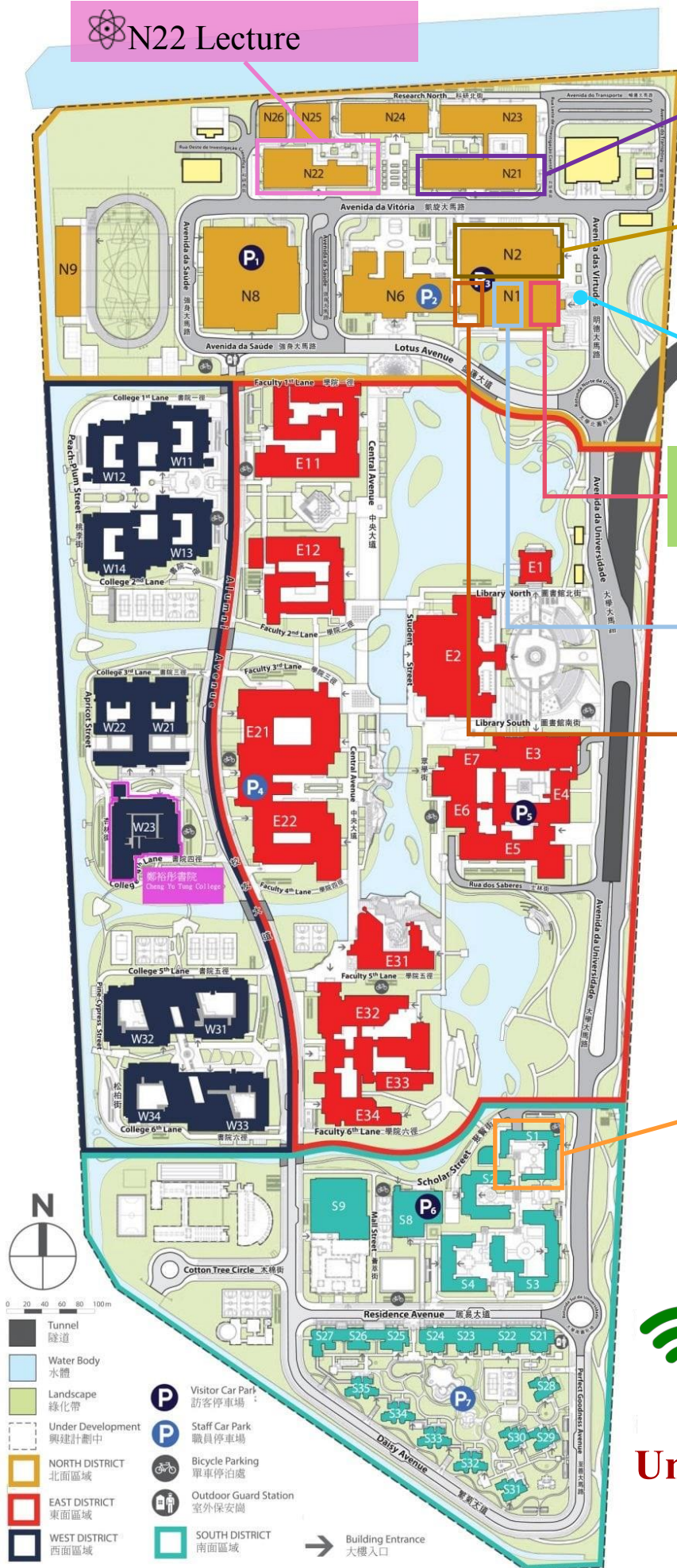
Parallel Session Room

Parallel Session Room

University

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University of Macau Campus Map



EVENTS FOR YOUR CALENDAR

Welcome Mixer

Saturday 4th January, 18:00 – 21:00
Regency Art Hotel

Opening Ceremony

Sunday 5th January, 9:00 – 11:20
University Hall, N2 Building, University of Macau

Welcome Dinner

Sunday 5th January, 18:15 – 21:00
Fortune Inn, N1 Building, University of Macau

Night Tour of Macau

Sunday 5th January, 21:00 – 22:30
Buses will depart from outside the N1 Building, University of Macau

Conference Dinner

(Invited speakers and ticket holders)
Monday 6th January, 19:00 – 22:00
Hotel Okura, Taipa, Macau (Orchid, Lotus, Lily function room, 28th floor. Detailed address please go to [page 23](#))
Buses will depart at **18:20** from outside the N1 Building, University of Macau
Return transportation to the Regency Art Hotel will be provided.

Students' Dinner

(Ticket holders)
Monday 6th January, 19:00 – 22:00
Panda Restaurant, Taipa, Macau
Buses will depart at **18:20** from outside the N1 Building, University of Macau
NO return transport will be arranged.

Closing Ceremony

Tuesday 7th January, 14:30 – 16:00
University Hall, N2 Building, University of Macau
NO return transport will be arranged.

SHUTTLE BUSES

The conference provides shuttle buses from Regency Art Hotel to University of Macau between **7:30am and 8:20am**, and back to Regency Art Hotel from University of Macau after the scientific program (will leave at about **18:20pm**) and conference dinner if indicated above. No return transport to Regency Art Hotel will be arranged on 7th January.

ANNOUNCEMENTS



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Others (in
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Download Whova, search for **aomsc**, register using your **conference registered email**. You can

1. View the event **agenda** and plan your schedule.
2. Find your fellow attendees' talks.
3. Receive **any announcements and program changes** made by AOMSC.
4. Plan some social activities such as city tour, or meet-ups with your fellow attendees.

8:00	Registration			
	Venue: University of Macau			
	Session 1: Opening Educational Sessions, <i>Chair: Ivan K. Chu, University of Hong Kong</i>			
	Venue: University Hall			
9:00	Welcome Address, Announcements and Young Scientist Forum Awards			
9:20	1-1: Accelerated Reactions in Microdroplets, R. Graham Cooks , Purdue University (<i>Introduced by Joseph Loo</i>)			
9:50	1-2: Environmental Chemistry, Guibin Jiang , Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences (<i>Introduced by K. W. Michael Siu</i>)			
10:20	1-3: Clinical Proteomics, Yu-Ju Chen , Academia Sinica (<i>Introduced by Maxey Chung</i>)			
10:50	1-4: The role of MS based methods in understanding metal catalysed reactions and inventing new catalysts and new reactions, Richard O'Hair , University of Melbourne (<i>Introduced by Peter B. Armentrout</i>)			
11:20 - 13:00	Sunday Brunch + PosterSession 1, <i>Venue: Poster and Vendor Room, N1 Building</i>			
12:00noon	Young Scientist Forum Flash Talks, <i>Venue: Parallel Session Room 2</i>			
11:30 - 12:30	Sponsored Lunch Workshop by Agilent, <i>Venue: Parallel Session Room 1</i>			
	Venue: Parallel Session Room 1	Venue: Parallel Session Room 2	Venue: University Hall	Venue: N21 Lecture Hall
	Session 2A: MS Instrumentation I <i>Chair: Chung Hsuan (Winston) Chen, Academia Sinica</i>	Session 2B: Lipidomics I <i>Chair: Gavin Reid, University of Melbourne</i>	Session 2C: Atomic MS / Metallomics <i>Chair: Hongzhe Sun, University of Hong Kong</i>	Session 2D: Ion Spectroscopy <i>Chair: Xianglei Kong, Nankai University</i>
13:00	2A-1: Recent Development of Novel Mass Spectrometers and Its Applications Chung Hsuan (Winston) Chen , Academia Sinica	2B-1: Next Generation Paternò-Büchi Reagents for Lipid Analysis by Mass Spectrometry Xia Yu , Tsinghua University	2C-1: Introduction to Metallomics Hongzhe Sun , University of Hong Kong	2D-1: How Reliable are MS/MS Annotated Structures? A Spectroscopic Investigation Jos Oomens , Radboud University
13:20	2A-2: The effect of higher order field on the performance of linear ion trap Chuanfan Ding , Ningbo University	2B-2: Lipidomics: Current status and future perspective Xianlin Han , University of Texas Health Science Center at San Antonio	2C-2: Towards predicting the neurotoxicity of chemicals through feces: A comparison between methylmercury and inorganic mercury in rats Yu-Feng Li , Institute of High Energy Physics, Chinese Academy of Sciences	2D-2: Laser spectroscopy of gas-phase proteins isolated by IR-laser ablation of droplet beam Jun-Ya Kohno , Gakushuin University
13:40	2A-3: Miniature Mass Spectrometry Systems: current status and future directions Zheng Ouyang , Tsinghua University	2B-3: Imaging mass spectrometry of lipids with isomer resolution Stephen Blanksby , Queensland University of Technology	2C-3: Investigation on Biomolecular Measurement by ICPMS Mingli Chen , Northeastern University	2D-3: 2D UV-MS fingerprinting for identification of isomeric biomolecules Oleg Boyarkine , École Polytechnique Fédérale de Lausanne
14:00	Short Break			
	Session 3A: Glycomics <i>Chair: Catherine Costello, Boston University</i>	Session 3B: Mass Spectrometry Imaging <i>Chair: Zhongping Yao, The Hong Kong Polytechnic University</i>	Session 3C: Emerging and Persistent Environmental Contaminants <i>Chair: Simon Chan, Hong Kong University of Science and Technology</i>	Session 3D: Top-Down Proteomics / Native MS <i>Chair: Joseph Loo, USA</i>
14:10	3A-1: Capillary Zone Electrophoresis and Tandem Mass Spectrometry for the Analysis of Glycosaminoglycans Jon Amster , University of Georgia	3B-1: Probing the Chemical Space of Biological Systems through the Lens of Mass Spectrometry Imaging Lingjun Li , University of Wisconsin - Madison	3C-1: Stable Isotopic Labeling Assisted Omics Analysis of Nitrogenous Contaminants in Water Xing-Fang Li , University of Alberta	3D-1: Intact Membrane Protein Mass Spectrometry, Top-down Proteomics and the Proteolipidome Julian Whitelegge , University of California, Los Angeles
14:30	3A-2: Diagnostic markers of Congenital Disorders of Glycosylation (CDG) Yoshinao Wada , Osaka Women's and Children's Hospital	3B-2: An eye on lens cataract: Visualisin ocular lens structure and function with imaging mass spectrometry Angus Grey , University of Auckland	3C-2: Effects of PFOS on the Gut Microbiota and Metabolic Profiles in Mice Yanjun Hong , Hong Kong Baptist University	3D-2: Introduction to Top-Down Proteomics Huilin Li , Sun Yat-sen University
14:50	3A-3: Glycan analysis in biopharmaceutical applications Jianjun Li , National Research Council Canada	3B-3: Amidation analysis of the C-terminal of Neuropeptide Y from Mouse Brain by nanoLC-Orbitrap-MS/MS Tohru Yamagaki , Suntory Institute for Bioorganic Research	3C-3: Mass Spectrometry Applications for Environmental, Health and Societal Wellbeing Stewart Walker , Flinders University	3D-3: Middle-Down Proteomic Analyses with Ion Mobility Separations of Endogenous Isoforms Alexandre Shvartsburg , Wichita State University
15:10	3A-4: Cancer biomarker discovery with site- and structure-specific quantitative N-glycoproteomics Zhixin Tian , Tongji University	3B-4: Exosomal Protein Analysis Using MALDI-MS Jeongkwon Kim , Chungnam National University	3C-4: Metabolic Profiling Reveals the Health Risks Associated with Chlorinated Antibacterial Agent Exposure Zongwei Cai , Hong Kong Baptist University	3D-4: Nanoscale Ion Emitters in Native Mass Spectrometry for Measuring Ligand-Protein and Ligand-DNA Binding Affinities William (Alex) Donald , UNSW Sydney
15:30	3A-5: IgG glycosylation and pathophysiological states of diseases Zhili Li , Peking Union Medical College	3B-5: Mass spectrometry imaging of human heart tissue by scanning probe electrospray ionization mass spectrometry with feedback control system Yoichi Otsuka , Osaka University	3C-5: Lipid metabolism disorders contribute to hepatotoxicity of triclosan in mice Wei Huang , Hong Kong Baptist University	3D-5: Native Mass Spectrometry of Protein-Ligand Complexes Under Crude Conditions Satoko Akashi , Yokohama City University
15:40			3C-6: Consequential Fate of Bisphenol-Contaminated PVC Microplastics with Possible Implications for Human Health Pengfei Wu , Hong Kong Baptist University	
15:50	Flash Talks	Flash Talks: Keke Qi	Flash Talks	Flash Talks
15:55	Afternoon Refreshments + PosterSession 1, <i>Venue: Poster and Vendor Room, N1 Building</i>			
	Session 4A: Ionization Methods <i>Chair: Jentaie Shiea, National Sun Yat-Sen University & Kwan-Ming Ng, University of Hong Kong</i>	Session 4B: Metabolomics I <i>Chair: Liang Li, University of Alberta</i>	Session 4C: Advanced Methods & Instrumentation in Environmental Analysis by MS I <i>Chair: Xing-Fang Li, University of Alberta</i>	Session 4D: Structural Biology I <i>Chair: Hugh I. Kim, Korea University</i>
16:25	4A-1: Three Dimensional Molecular Imaging of Drugs and Metabolites on Whole Human Body's Skin with Ambient Mass Spectrometry Jentaie Shiea , National Sun Yat-Sen University	4B-1: Spatially mapping stable isotopes in vivo to understand brain metabolic changes in Huntington's disease Berin Alain Boughton , University of Melbourne	4C-1: ToF-SIMS analysis and imaging: a preliminary toxicity study of Daphnia magna by microplastics Yong-Chien Ling , National Tsing Hua University	4D-1: Ion Mobility Mass Spectrometry Reveals Formation and Structure of DNA Assemblies Tara Pukala , University of Adelaide
16:45	4A-2: Near-Field Assisted Ionization on Au@SiO2 Nanoparticles by Laser Excitation Mass Spectrometry Kwan-Ming Ng , Shantou University	4B-2: Online Real-Time Monitoring of Exhaled Breath Particles Reveals Unnoticed Transport of Non-Volatile Drugs across Blood-Air Barrier Xue Li , Jinan University	4C-2: Study on Persistent Organic Pollutants-Protein Complexes and Their Mediated Toxicity Xian Wang , South-Central University for Nationalities	4D-2: Characterization of native and pathological alpha-synuclein species by hydrogen/deuterium exchange mass spectrometry Thomas J. D. Jørgensen , University Of Southern Denmark
17:05	4A-3: Induced Electrospray Ionization for Direct Mass Spectrometry Measurement of Metabolites Guangming Huang , University of Science and Technology of China	4B-3: Visualization of aldosterone on adrenal frozen sections of primary aldosteronism patients Yuki Sugiura , Keio University	4C-3: Quantitative analysis of multiple PTM events on viral protein associated with host adaptation process Lin Zhu , Hong Kong Baptist University	4D-3: Impact of gas phase reactions on interpretation of higher-order structural data deduced from native MS and hydrogen/deuterium exchange MS analysis Guanbo Wang , Nanjing Normal University
17:15	4A-4: Coupling PB Reaction with Ambient Nanoelectrospray Ionization Mass Spectrometry for Accurately Structural Identification of Conjugated Linoleic Acids Yunyun Yang , Guangdong Institute of Analysis	4B-4: Advancing Untargeted Metabolomics Using SWATH based Data Independent Acquisition Mass Spectrometry Zheng-Jiang Zhu , Shanghai Institute of Organic Chemistry	4C-4: Molecular characteristic alternation of dissolved organic matters during disinfection reactions Ting Ruan , Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences	4D-4: Deep-coverage analysis of protein-protein interaction by cross-linking MS Lihua Zhang , Dalian Institute of Chemical Physics, Chinese Academy of Sciences
17:25			4C-5: Microscale SPME probe for in situ analysis of perfluoroalkyl substances and lipids in biological tissues using mass spectrometry Jiewei Deng , Guangdong University of Technology	
17:35	4A-5: Direct and Rapid Analysis of sub-fg Level Steroids in Water by Thermal Desorption Atmospheric Pressure Photoionization Mass spectrometry Wan Zhao , University of Science and Technology of China	4B-5: Study the Regulation of Plant Immunity and Metabolite Biosynthesis using MS-Based OMICs Approach Yet-Ran Chen , Academia Sinica	4C-6: Exposomics research with deciduous teeth: analytical strategies and method development Sangwon Cha , Hankuk University of Foreign Studies	4D-5: HDXMS reveals integrative allosteric signaling from two non-contiguous sites of a kinase Abhijeet Ghode , National University of Singapore
17:45				Flash Talks: Masamitsu Maekawa, Tsz Fung Wong, Venkata Raghuvamsi Palur, Jiawei Li, Liwen Huang
17:50				
18:00	Flash Talks: Hiroshi Kobayashi			
18:05	End of Day 1			
18:15 - 21:00	Welcome Dinner at Fortune Inn (University of Macau)			

Session 5: Educational Sessions, Chair: Andy Chi-Kit Siu, City University of Hong Kong Venue: University Hall					
8:30	5-1: Resolving Complexity of Naturally Occurring Organic Chemicals with Mass Spectrometry: Past, Present, and Future, Sunghwan Kim , Kyungpook National University				
9:00	5-2: Structural Elucidation / Ion Spectroscopy, Jos Oomens , Radboud University				
9:30	5-3: Fundamentals of Mass Spectrometry: Guided Ion Beams and Thermochemistry, Peter B. Armentrout , University of Utah (Introduced by Rachel Loo)				
10:00	Morning Refreshments + Poster Session 2, Venue: Poster and Vendor Room, N1 Building				
	Venue: Parallel Session Room 1	Venue: Parallel Session Room 2	Venue: University Hall	Venue: N21 Lecture Hall	Venue: N22 Lecture Hall
	Session 6A: Proteomics I Chair: Maxey Chung/ Qian Zhao, The Hong Kong Polytechnic University	Session 6B: Lipidomics II Chair: Xia Yu, Tsinghua University	Session 6C: Environmental and Atmospheric Mass Spectrometry I Chair: Da Chen, Jinan University	Session 6D: Gaseous Biomolecules, Gas Phase Ion Chemistry and Spectroscopy I Chair: Peter Armentrout, University of Utah	Session 6E: Advances in Mass Spectrometry for Traditional Medicine and Natural Product Research I Chair: Chun-Tao Che, University of Illinois at Chicago
10:30	6A-1: Challenges to illuminate human kinome Yasushi Ishihama , Kyoto University	6B-1: Isotope labelled methylation for the comprehensive analysis of polyglycerophospholipids using nUHPLC-ESI-MS/MS Myeong Hee Moon , Yonsei University	6C-1: Characterizing and mapping particles by mass spectrometry Zongxiu Nie , Institute of Chemistry, Chinese Academy of Sciences	6D-1: Ion Pairs and Entropy in Dissociating Complexes Rachel Loo , University of California, Los Angeles	6E-1: An Introductory Remark on "Advances in mass spectrometry for traditional medicine and natural product research" Chun-Tao Che , University of Illinois at Chicago
10:50	6A-2: MS-based proteomics profiling of kinome-wide activation states Maarten Altelaar , Utrecht University	6B-2: Defining the Lipidomic "Hallmarks" of Colorectal Cancer Gavin Reid , University of Melbourne	6C-2: Distinguishing the sources of nanoparticles in the environment by stable isotopic fingerprinting Qian Liu , Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences	6D-2: Dissociation chemistry of the hydrogen-deficient peptide radical produced by MALDI in-source decay Daiki Asakawa , National Institute of Advanced Industrial Science and Technology	6E-2: LC-MS for determination of biomarker of pyrrolizidine alkaloids induced liver injury and analysis of pyrrolizidine alkaloids in natural products Ge Lin , The Chinese University of Hong Kong
11:10	6A-3: Characterization of collision-induced dissociation of deprotonated peptides using high-resolution mass spectrometry Meng-Qiu Dong , National Institute of Biological Sciences, Beijing	6B-3: Cross-Platform and Inter-Laboratory Harmonization of Lipidomics Federico Torta , National University of Singapore	6C-3: 1000-Fold Preconcentration of Per- and Polyfluorinated Alkyl Substances (PFAS) within 10 Minutes via Electrochemical Aerosol Formation Chuping Lee , National Chiayi University	6D-3: N-Heterocyclic Carbene (NHC) Dimerization in the Gas Phase: C-H...C Hydrogen Bonding vs. Covalent Dimer Formation Mathias Schaefer , University of Cologne	6E-3: Chemical Profiling of Medicinal Compounds in Cannabis Samples by GC-MS Paul C. H. Li , Simon Fraser University
11:25			6C-4: Structural Homologs Investigation of Polycyclic Aromatic Hydrocarbons in Crude Oil and Urban Aerosols by IM MS Yehua Han , China University of Petroleum-Beijing	6D-4: Cyclodextrin host-guest chemistry does not exist in the gas-phase: ECD mass spectrometry and IRMPD spectroscopy evidence Han Bin Oh , Sogang University	6E-4: Mass Spectrometry based metabolomics study on TCM treatment of chronic diseases Daniel Kam-Wah Mok , The Hong Kong Polytechnic University
11:30	6A-4: The characterization of column heating effects in nano-flow liquid chromatography mass spectrometry (nanoLC-MS)-based proteomics Linhui Zhai , Shanghai Institute of Materia Medica	6B-4: Investigation of the source of error in mass spectrometric quantification of fatty acids in food Tae-Young Kim , Gwangju Institute of Science and Technology	6C-5: Real-time analysis of the homogeneous and heterogeneous reactions of pyrene with ozone using spectrometry Ping Cheng , Shanghai University	6D-5: Flipping the redox switch: Gas-phase electrochemical reduction of sterically hindered supramolecular complexes by ion-ion reactions David Marshall , Queensland University of Technology	6E-5: Differentiation of Asian and American Ginsengs by Differential Ion Mobility Spectrometry – Tandem Mass Spectrometry (DMS-MS/MS) Dominic T. W. Chan , The Chinese University of Hong Kong
11:40			6C-6: Early pregnancy exposure to benzotriazoles and benzothiazoles in relation to gestational diabetes mellitus: a prospective cohort study Yanqiu Zhou , Hong Kong Baptist University	Flash Talks: Howard Ma, Yinan Li, Ephrem Gizachew Demissie	
11:50			Flash Talks		
11:55	6A-5: Target discovery of functional small molecules Hui Ye , China Pharmaceutical University	6B-5: Uncovering the Role of Brain Tissue Derived Exosomal Lipids in Alzheimer's Disease Huaqi (Kate) Su , University of Melbourne			
12:05	Flash Talks: Prem Prakash Das	Flash Talks: Ethan Yang			
12:10 - 13:40	Lunch + Poster Session 2, Venue: Poster and Vendor Room, N1 Building				
12:10 - 13:10	Sponsored Lunch Workshop by SCIEX, Venue: Parallel Session Room 1				
	Session 7: Educational Sessions, Chair: Huwei Liu, Peking University Venue: University Hall				
13:40 - 14:10	7-1: Metabolomics, Liang Li , University of Alberta				
	Session 8A: Proteomics II Chair: Henry Lam, Hong Kong University of Science and Technology	Session 8B: Metabolomics II Chair: Yet-Ran Chen, Academia Sinica/Berlin Alain Boughton, University of Melbourne	Session 8C: Environmental and Atmospheric Mass Spectrometry II Chair: Tiangang Luan, Sun Yat-sen University/Guangdong University of Technology; Vengatesen Thiyagarajan, University of Hong Kong	Session 8D: MS Instrumentation II Chair: Jon Amster, University of Georgia	Session 8E: Advances in Mass Spectrometry for Traditional Medicine and Natural Product Research II Chair: Wen Ping Peng, National Dong Hwa University
14:15	8A-1: Mass spectrometry-based multi-omics discovery of new-generation cancer markers for predicting personalized prognosis Xian Chen , University of North Carolina-Chapel Hill	8B-1: HRMS-based metabolomics/peptidomics strategies for discovering toxicant exposure markers and assessing similarity between complex polypeptide drugs Pao-Chi Liao , National Cheng Kung University	8C-1: High-throughput measurements of contaminants of emerging concern in ambient PM2.5 from South China Da Chen , Jinan University	8D-1: Progress with development of the new type of FT-mass spectrometer based on multi electrode harmonized Kingdon traps Egenny Nikolaev , Skolkovo Institute of Science and Technology	8E-1: Structural Elucidation of Antifungal Fengycin Lipopeptides by Liquid Chromatography/Quadrupole Time-of-Flight Mass Spectrometry Liya Ge , Nanyang Technological University
14:35	8A-2: In-silico spectral libraries by deep learning facilitate data-independent acquisition (DIA) proteomics Liang Qiao , Fudan University	8B-2: Mass Spectrometry-based Metabolomics Explores Cancer Vulnerability Shuhai Lin , Xiamen University	8C-2: A Comprehensive Isomeric Identification of Particle-Phase Organic Nitrates through GC-ToF-MS Coupled with Electron Capture Ionization Xinghua Qiu , Peking University	8D-2: Ionization of Micrometer/Submicrometer-Sized Particles by Laser-Induced Radiofrequency Plasma Ion Source Wen Ping Peng , National Dong Hwa University	8E-2: Genetically encoded chemical tags for visualization of proteins in single cells by ToF-SIMS Fuyi Wang , Institute of Chemistry, Chinese Academy of Sciences
14:55	8A-3: A Universal Database for Detecting Alternative-Splicing Protein Isoforms in Human Cancer Cells Pang-Hung Hsu , National Taiwan Ocean University	8B-3: Mitochondrial metabolomic study of the protection effect of nicotinamide on cardiomyoblast hypoxia/re-oxygenation injury Xiaoping Liang , Guangdong University of Technology	8C-3: Atmospheric VOC characteristics and sources in summer and winter at urban Taiyuan, north China Hong Geng , National Chung Hsing University	8D-3: Ultra-sensitive biomarkers detection based on ambient mass spectrometry immunoassay Yu Bai , Peking University	8E-3: Examining the potential effect of probiotic bacteria in reducing acrylamide Emily Siu Mei Choi , Technological and Higher Education Institute of Hong Kong
15:10			8C-4: Determination of silver containing particulates in rat brain Ligang Hu , Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences	8D-4: In Situ Liquid SIMS as a Versatile Molecular "Eye" for Investigations of Various Liquids and Dynamic Solid-liquid Interfaces Yanyan Zhang , Institute of Chemistry, Chinese Academy of Sciences	8E-4: Unraveling holistic mechanism of Chinese medicines using LC-MS-based metabolomics and microbial sequencing Ru Yan , University of Macau
15:15	8A-4: rPTM Determine: A Fully Automated Methodology for Endogenous Tyrosine Nitration Validation, Site-Localization, and Beyond Naiping Dong , University of Hong Kong	8B-4: The application of a real-ambient fine particulate matter exposure system on Sirt3 deficient Yuanyuan Song , Hong Kong Baptist University	8C-5: APGC-MS/MS platform for profiling and analysis of organic pollutants in PM2.5 Yanhao Zhang , Hong Kong Baptist University		8E-5: Study on Inhibition of Class B Metallo-β-lactamase NDM-1 by Mass Spectrometry Liwen Huang , The Hong Kong Polytechnic University
15:25			8C-6: Determination of dihydroxylated polybrominated diphenyl ethers in marine fish via GCMS/MS Mengtao Zhang , Hong Kong Baptist University	8D-5: Improving mass resolving power of mass spectra by real-time dynamic peak correction Yi-Sheng Wang , Academia Sinica	8E-6: Engineering Multiple Synthetic Chromosome Yeast for the Production of Terpenoids by LOXP-Mediated Evolution (SCRAMBLE) System Tsan-Yu (Sonya) Chiu , BGI Research
15:30			Flash Talks		
15:35	8A-5: A Real Time Spectral Visualization Tool for PSM Validation Long Wu , Hong Kong University of Science and Technology	8B-5: Development of a High-Coverage Targeted Metabolomics Method Using Ultra High-Performance Liquid Chromatography Coupled with Tandem Mass Spectrometry Guodong Cao , Hong Kong Baptist University			
15:40					
15:45	Flash Talks: Jordy Evan Sulaiman	Flash Talks: Zhiyi Yang, Jiyan Liu, Jinglin Tian			
15:50	Afternoon Refreshments + Poster Session 2, Venue: Poster and Vendor Room, N1 Building				

	Venue: Parallel Session Room 1	Venue: Parallel Session Room 2	Venue: University Hall	Venue: N21 Lecture Hall
	Session 9A: Proteomics III <i>Chair: Meng-Qiu Dong, National Institute of Biological Sciences/Siu Kwan Sze, Nanyang Technological University</i>	Session 9B: Advanced Methods & Instrumentation in Omics Analysis <i>Chair: Yi-Sheng Wang, Academia Sinica</i>	Session 9C: Advanced Methods & Instrumentation in Environmental Analysis by MS II <i>Chair: Yong-Chien Ling, National Tsing Hua University</i>	Session 9D: FAIMS, IMS and DMS Developments in Mass Spectrometry <i>Chair: Adam Trevitt, University of Wollongong</i>
15:20	9A-1: Holistic proteomics research uncovers molecular mechanisms and biomarkers of age-associated diseases Newman Siu Kwan Sze , Nanyang Technological University	9B-1: Inductively coupled plasma mass spectrometry (ICP-MS) in single cell analysis Jian-Hua Wang , Northeastern University	9C-1: Lipidomics investigation using microscale solid-phase microextraction probe Tiangang Luan , Sun Yat-sen University/Guangdong University of Technology	9D-1: Introduction to Ion Mobility Spectrometry Alexandre Shvartsburg , Wichita State University
16:40	9A-2: A LysargiNase- and chemical derivatization-based strategy LAACter facilitating in-depth profiling of C-terminome Minjia Tan , Shanghai Institute of Materia Medica, Chinese Academy of Sciences	9B-2: Rapid Quantification of Gut Microbiota-Derived Short-Chain Fatty Acids within a minute Cheng-Yu Weng , National Taiwan University	9C-2: Development of "Virtual Tandem MS" with single Q-MS for Screening Technique to Polymer Materials Takahisa Tsugoshi , National Institute of Advanced Industrial Science and Technology	9D-2: Application of Cyclic Ion Mobility Mass Spectrometry for Structural Identification of an Individual Compounds in Complex Mixture Sunghwan Kim , Kyungpook National University
16:55	9A-3: Multidimensional proteomic study identifies decreased protein synthesis and increased histone 2A ubiquitylation during aging Yaoyang Zhang , Interdisciplinary Research Center on Biology and Chemistry, Chinese Academy of Sciences	9B-3: Gradient Refocusing Strategies for Shotgun Proteomics with Meter-Scale Monolithic Silica Capillary Columns Kosuke Ogata , Kyoto University	9C-3: Application of Stable Isotope-labeling based Quantitative Proteomics in the Study on Protein Phosphorylation Relays Zhu Yang , Hong Kong Baptist University	9D-3: FAIMS and UV Laser photodissociation to separate and assign protonation isomers Adam Trevitt , University of Wollongong
17:00			9C-4: Spotting the False-positive Biological Signals in Environmental Metabolomics Studies Hemi Luan , Southern University of Science and Technology	9D-4: Rapid Metal-ion Free Chiral Analysis of Amino Acid Enantiomers Using High-Definition High-Field Asymmetric Waveform Ion Mobility Mass Spectrometry Diana Zhang , University of New South Wales
17:10			9C-5: Automated target and suspect screening, identification and quantification of emerging contaminants in groundwater by online SPE coupled with HPLC-HRMS Feng Guo , National Research Center for Geoanalysis, Chinese Academy of Geological Science	9D-5: Assembly-enhanced Differentiation of Leucine, Isoleucine and Allo-Isoleucine by Ion Mobility Mass Spectrometry Han Dongqi , The Hong Kong Polytechnic University
17:20	9A-4: Venomics approach for identification of bioactive peptides from scorpion venom Masahiro Miyashita , Kyoto University	9B-4: Deep Lipidomics and Molecular Imaging of Unsaturated Lipid Isomers: A Universal Strategy Initiated by mCPBA Epoxidation Ting-Hao Kuo , National Taiwan University		
17:25				
17:30				
17:40	Sessions 9A-D End			
	Session 10: Educational Sessions, Chair: Lingjun Li, University of Wisconsin <i>Venue: University Hall</i>			
17:45	10-1: Glycomics, Catherine Costello , Boston University (<i>Promoted by IMSF</i>)			
18:15	End of Day 2			
18:20	Depart for Conference Dinner Venue (Hotel Okura)			
19:00 - 22:00	Conference Dinner at Hotel Okura (By invitation & ticket holders only)			

DAY 3: 7th January 2020

	Session 11: Educational Sessions, Chair: Simon Lee, University of Macau <i>Venue: University Hall</i>			
8:30	11-1: Exosome and environmental health, X. Chris Le , University of Alberta			
9:00	11-2: Single Cell, Xinrong Zhang , Tsinghua University			
9:30	11-3: Development of mass microscope and application for food analysis, Shuichi Shimma , Osaka University			
	Session 12A: Young Scientist Forum Speakers	Session 12B: Ionization Methods/MS Instrumentation <i>Chair: Yong-Ill Le, Changwon National University</i>	Session 12C: Environmental and Atmospheric Mass Spectrometry III <i>Chair: Xinghua Qiu, Peking University</i>	Session 12D: Structural Biology II <i>Chair: Tara Pukala, University of Adelaide</i>
10:10	12A-1: (Introduced by Joseph Loo)	12B-1: Characterization the Gas Flow Effects in a Miniature Mass Spectrometer Xinming Huo , Tsinghua University	12C-1: Quantitative analysis of nitro-polycyclic aromatic hydrocarbons in PM2.5 samples with graphene as a matrix by MALDI-TOF MS Shaomin Shuang , Shanxi University	12D-1: Flying viruses – from biophysical to structural characterisation Charlotte Utrecht , Leibniz Institute for Experimental Virology and European XFEL GmbH
10:20	12A-2: (Introduced by K. W. Michael Siu)	12B-2: Quantitative Analysis of C18-ceramide biomarker using an organic solvent resistant paperbased analytical device/mass spectrometry Yong-Ill Lee , Changwon National University	12C-2: Lab and Field Applications of Aerosol Mass Spectrometry Yongjie Li , University of Macau	12D-2: Understand conformational changes of intrinsically disordered proteins and their complexes with ligands during transfer from solution to the gas phase Hugh I. Kim , Korea University
10:30	12A-3: (Introduced by Catherine Costello)	12B-3: Early Detection of Poultry Pathogen Infections by Mini Mass Spectrometer and Machine Learning Wei-Chieh Wang , National Taiwan University	12C-3: Mass spectrometry-based techniques for the environmental fate of biocides Zhifeng Chen , Guangdong University Of Technology	12D-3: Investigation of the formation and structure characteristics of miRNA G-quadruplexes by ESI-MS Jiang Zhou , Peking University
10:40	12A-4: (Introduced by Graham Cooks)		12C-4: Quantitative Phosphoproteomics Analysis Reveals the Mechanism of LPS-induced inflammatory Response Xie Guangshan , Hong Kong Baptist University	
10:45	12A-5: (Introduced by Evgeny Nikolaevich Nikolaev)			
10:50	12A-6: (Introduced by Peter B. Armentrout)			
11:00				
11:10	Morning Refreshments + Poster Session 3 <i>Venue: Poster and Vendor Room, N1 Building</i>			
	Session 13A: Proteomics IV <i>Chair: Terence Poon, University of Macau/Catherine Wong, Peking University Health Science Center</i>	Session 13B: MS Instrumentation III <i>Chair: Cheng-Chih Hsu, National Taiwan University/Lee Chuin Chen, University of Yamanashi</i>	Session 13C: Clinical/Chemical Proteomics and Advanced Methods <i>Chair: Yu-Ju Chen, Academia Sinica</i>	Session 13D: Gaseous Biomolecules, Gas Phase Ion Chemistry and Spectroscopy II <i>Chair: Martin Beyer, University of Innsbruck</i>
11:40	13A-1: Mass Spectrometry-based N-glycan Analysis for Cancer Biomarker Discovery Bifeng Liu , Huazhong University of Science and Technology	13B-1: Mass Spectrometry and Machine Learning in Disease Diagnosis Cheng-Chih Hsu , National Taiwan University	13C-1: Mechanistic Studies of Bioactive Compounds/Drugs with Quantitative Chemical Proteomics Qingsong Lin , National University of Singapore	13D-1: Infrared Action Spectroscopy of Transition Metal Carbene Cations Peter Armentrout , University of Utah
12:00noon	13A-2: Single cell proteomic analysis using PASEF Catherine Wong , Peking University Health Science Center	13B-2: Improving Quantitation Accuracy, Throughput and Sensitivity of the "Brick" Mass Spectrometer: Our Recent Efforts Wei Xu , Beijing Institute of Technology	13C-2: Chemical proteomics methods for drug target profiling and beyond Qian Zhao , Hong Kong Polytechnic University	13D-2: Wavelength-Dependent Ultraviolet Photodissociation of Organic Compounds: Diversity and its Application Xianglei Kong , Nankai University
12:20	13A-3: Probing the Interactions Between RNA and Proteins with Proteomics Ruibing Chen , Tianjin University	13B-3: Rational Design Towards Universal and Superior Dual Polarity Matrix for MALDI Mass Spectrometry Penghsuan Huang , National Taiwan University	13C-3: Urine Proteome Changes in Rats with Approximately Ten Tumor Cells Subcutaneous Inoculation Youhe Gao , Beijing Normal University	13D-3: Mass Spectrometry at the Air-water Interface Xinxing Zhang , Nankai University
12:40	13A-4: Spatiotemporal protein complex profiling by integrated proteomics Ruijun Tian , Southern University of Science and Technology	13B-4: Application of high pressure ESI in high temperature liquid chromatography MS Lee Chuin Chen , University of Yamanashi	13C-4: Development of In Vivo Swab Solid-Phase Microextraction Mass Spectrometry for Enhanced Noninvasive Capturing Analytes in Human Body Bin Hu , Jinan University	13D-4: Dissociative Electron Transfer via n→π+ Interaction in Isolated Tyrosine Containing Molecular Peptide Radical Cations Alfred Tang , City University of Hong Kong
13:00	13A-5: A Novel Bottom-up Proteomics Approach for Proteoform Analysis through Achieving Complete Protein Sequence Coverage Terence Poon , University of Macau	13B-5: Imaging of Polar and Nonpolar Species Using Compact Desorption Electrospray Ionization/Postphotoionization Mass Spectrometry Yang Pan , University of Science and Technology of China	13C-5: Application of Chemical Derivatization Strategy to MHC Class I Immunopeptide Jianjun Li , National Research Council Canada	13D-5: IR spectral signatures of microsolvated gold-chloride complexes Kono Lemke , University of Hong Kong
13:20 - 14:20	Lunch + Poster Session 3			
	Session 14: Closing Sessions, Chair: Ivan K. Chu, University of Hong Kong <i>Venue: University Hall</i>			
14:30	14-1: Discovery and Identification of Oral Cancer Biomarkers and their Translation to Prognosis of Patients with Oral Precancers, K. W. Michael Siu , University of Windsor (<i>Introduced by Richard O'Hair</i>)			
15:00	14-2: Protein Mass Spectrometry Beyond 2020 – It Takes a Community to Move Forward, Joseph Loo , University of California, Los Angeles (<i>Introduced by Catherine E. Costello, Former president, International Mass Spectrometry Foundation</i>)			
15:30	Closing Ceremony & Awards Presentation (including the 2019 RCM Beynon Prize) Announcement of the 9th AOMSC			
16:00	End of Conference			

LIST OF POSTERS

Proteomics

A1	Common decoy distribution as a stable and simple alternative to target-decoy search strategy in tandem MS-based shotgun proteomics <i>Dominik Madej, The Hong Kong University Of Science And Technology</i>
A2	Peptidyl-Lys metalloendopeptidase (Lys-N) purified from dry fruit of <i>Grifola frondosa</i> demonstrates “mirror” digestion property with lysyl endopeptidase <i>Zhiwei Liu, Chinese Academy Of Sciences</i>
A3	A Fully Automated Methodology for Endogenous Tyrosine Nitration Validation <i>Mengzhu Li, the University of Hong Kong</i>
A4	Fabrication of poly-brush open tubular column and application for proteomic analysis of hundreds of HeLa cell <i>Xudong Zhu, Sun Yat-Sen University</i>
A5	N-terminome analysis reveals the function of protein N-term acetylation in <i>E.coli</i> cultured under different nutritional environments <i>Wensi Zhao, Chinese Academy Of Sciences</i>
A6	Global Proteomics Profiling of Lysine Succinylation in Danio rerio <i>Yan Gao, Kyungpook National University</i>
A7	A SWATH-MS spectral library for tobacco plants <i>Qifeng Lin, National University of Singapore</i>
A8	Potential Serum Proteomic Biomarker in Sudden Cardiac Death (ISD) in Malaysian Adults <i>Teck Yew Low, Ukm Medical Molecular Biology Institute</i>
A9	Isolation of Protein C-terminal Peptides by Metal Oxide Chromatography for Protein Terminomics <i>Hiroshi Nishida, Kyoto University</i>
A10	Differential proteomics of genetically modified and non-genetically modified soybean by iTRAQ technology <i>Lei Hsieh, National Taiwan Normal University</i>
A11	Post-column Photochemical Reduction Coupled on LC-MS/MS for Disulfide Peptide Analysis <i>Xiaoyue Yang, Tsinghua University</i>
A12	Rapid and accurate identification of Human Lung Tumors by Random Forests with Ambient Mass Spectrometry <i>Yongzhong Quyang, Foshan University, School Of Environmental And Chemical Engineering</i>
A13	Molecular Mechanism Investigation on Drug-induced Hepatotoxicity <i>Yue Zhuo, Macau University Of Science And Technology</i>
A14	iTRAQ-based analysis of leaf proteome identifies important proteins in secondary metabolite and defence pathways crucial to cross - protection from TMV <i>Prem Prakash Das, National University of Singapore</i>
A15	Metaproteomics Characterizes Human Gut and oral Microbiota Function in pancreatic Cancer <i>Jinzhi Zhao, Fudan University</i>
A16	Application of data-independent acquisition approach to study the proteome dynamics of plant pathogenesis responses <i>Kai-Ting Fan, Academia Sinica</i>
A17	Comparative Assessment of Glycosylation of Three Highly Purified FSH Extracted from Human Urine of Different Manufactures <i>Lingyu Sun, Sun Yat-Sen University</i>
A18	Insights into the Anti-cancer Effect Triggered by Silver Nanoparticles in Cisplatin-resistant A549 Lung Cancer Cells using Quantitative Proteomics <i>Tin Yan Wong, The Hong Kong University Of Science And Technology</i>
A19	Honey proteomic signatures for the identification of honey adulterated with syrup, producing country and nectar source <i>Yi-Feng Zheng, Institute Of Molecular Biology, National Chung Hsing University</i>
A20	Time-Course Proteome Profiling of Filamentous β -lactam Persisters during Antibiotic Treatment and Resuscitation <i>Jordy Evan Sulaiman, The Hong Kong University of Science and Technology</i>
A21	Quantitative proteomics analysis of apramycin producer <i>Streptomyces tenebrarius</i> <i>Darwin Linardi, The Hong Kong University of Science and Technology</i>

Ionization Methods/MS Instrumentation

B1	Imaging of Polar and Nonpolar Species Using Compact Desorption Electrospray Ionization/Postphotoionization Mass Spectrometry <i>Keke Qi, University of Science and Technology of China</i>
B2	A novel ion source for portable mass spectrometer <i>Yi-Hsin Chen, Department of Chemistry, National Chung Hsing University</i>
B3	Microdroplet synthesis of Pd(0) nano and their characterization by using coupling reactions. <i>Sathiyaraj Ethiraj, Fudan University</i>
B4	Rapid Authentication of Wine Samples by Direct Analysis in Real Time Mass Spectrometry <i>Gefei Huang, HKSMS</i>
B5	Development of on-line supercritical fluid extraction with reverse phase liquid chromatography–mass spectrometry for the determination of capsaicin <i>Naoki Hamada</i>
B6	Reaction Rate Acceleration in Levitated Droplets <i>Yangjie Li, Purdue University</i>
B7	Reaction of chloroauric acid with histidine in microdroplets yields catalytic Au-(His) ₂ complexes <i>Kai Luo, Fudan University</i>
B8	Quantitative analysis of trace compounds distribution in organisms by liquid extraction surface analysis tandem mass spectrometry <i>Xiao Yipo, State Key Laboratory of Biocontrol, South China Sea Bio-Resource Exploitation and Utilization Collaborative Innovation Center</i>
B9	A novel calibration method for secondary electrospray ionization high resolution mass spectrometry <i>Xue Li, Jinan University</i>
B10	Gram-scale chemical synthesis by using accelerated microdroplet/thin film reactions <i>Zhenwei Wei, Purdue University</i>
B11	Application and development of supercritical extraction-supercritical chromatography (UC) system <i>Yuki Hashi</i>
B12	Microscale SPME probe for in situ analysis of perfluoroalkyl substances and lipids in biological tissues using mass spectrometry <i>Yunyun Yang, Guangdong Institute of Analysis (China National Analytical Center Guangzhou)</i>

Metabolomics & Lipidomics

B13	Silver-Assisted LDI Imaging MS of Cholesterol and Other Olefins After Silver Salt Spray Deposition <i>Ethan Yang, Université de Montréal</i>
B14	Metabolism Profile Based on Paired Mass Distance Analysis for Exposure of Tetrabromobisphenol A, Tetrachlorobisphenol A and Bisphenol A in Pumpkin <i>Jiyan Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
B15	Study on Metabolic Profile Variations in Bone Cell with Cadmium Exposure <i>Jinglin Tian, HKBU</i>
B16	Integrative metabolomic study on human esophageal squamous cell carcinoma <i>Zhiyi Yang, Hong Kong Baptist University</i>
B17	Identification of Metabolomic Biomarkers for Endometrial Cancer EGI by Untargeted LC-MS/MS <i>Runqiu Yi, Fudan University</i>
B18	New analytical strategy for quantification using direct infusion high resolution mass spectrometry combined with MS2 <i>Yao Yao, Sun Yat-sen University</i>
B19	Mapping haze-komi on rice koji grains using β -glucuronidase expressing <i>Aspergillus oryzae</i> and mass spectrometry imaging <i>Adinda Putri Wisman, Osaka University</i>
B20	Rapid and Accurate Analysis of 2-Acetyl-1-pyrroline and Volatile Components in Rice Aroma Mutants by HS-SPME/GC-MS <i>Hong Xiang-Gui, Institute of Molecular Biology</i>
B21	Development of polar metabolite profiling method by supercritical fluid chromatography/mass spectrometry <i>Takeshi Bamba, Kyushu University</i>
B22	Near-complete structural identification and quantitation of glycerophospholipids enabled by photochemical reaction and mass spectrometry <i>Wenbo Cao, Department of Precision Instrument, Tsinghua University</i>
B23	Quantitative, comprehensive multi-pathway signaling analysis using an optimized phosphopeptide <i>Fan Chao, Thermo Fisher Scientific</i>
B24	Relative and absolute quantification of monosaccharides by non-isotopically paired labeling reagents using LC-MS <i>Yuan Hang, Zhengzhou University</i>
B25	Stearoyl CoA Desaturase Regulates the Composition of Lipid C=C Location Isomers <i>Simin Cheng, Tsinghua University</i>
B26	In situ enzyme-activity visualization by mass spectrometry imaging <i>Emi Takeo, Osaka university</i>
B27	Rapid determination of isoflavones and other bioactive compounds in soybean using SWATH-MS <i>Han-Ju Chien, Institute of molecular biology, National Chung Hsing university, Taiwan</i>
B28	Separation of anionic metabolite isomers using capillary ion chromatography-differential mobility spectrometry-mass spectrometry <i>Akiyoshi Hirayama, Keio University</i>
B29	Distinct metabolic and lipidomic characteristic of rat neural stem cells and differentiated cells using GC-MS and DI-MS <i>Hwanhui Lee, College of Pharmacy, Chung-Ang University</i>
B30	The quantitative analysis of adenosines by ionic liquid Matrices in Matrix-Assisted Laser Desorption/Ionization (MALDI) <i>I-Chung Lu, Dept. of Chemistry, National Chung Hsing University</i>
B31	Method development of lipid quantification by nanoflow UHPLC-ESI-MS/MS <i>Jongcheol Lee, Yonsei University</i>
B32	Least Absolute Shrinkage and Selection Operator (LASSO)-based Prediction of Collision Cross Section (CCS) Values for Lipid Isomers <i>Jiaying Wang, The Hong Kong Polytechnic University</i>
B33	MALDI-TOF MS based on Parylene-Matrix Chip for the Quantitative Analysis of Lysophosphatidylcholine in Sepsis Patient Sera <i>Jong-Min Park, Yonsei University</i>
B34	Integrated omics dissection of the effect of natural product decoction on cultured osteoblasts <i>Kin Leung Kwan, Hong Kong University of Science and Technology</i>
B35	Single-run comprehensive hydrophilic metabolome analysis by unified hydrophilic-interaction/anion-exchange liquid chromatography mass spectrometry <i>Kohta Nakatani, Kyushu university</i>
B36	Label-Free Absolute Quantitative Platform to Determine Sialic Acids using MRM-MS <i>Daum Lee, Chungnam National University</i>
B37	Metabolite profiling in the brain of mice exposed to paint-thinner <i>Gyungmin Lee, Kyungpook National University</i>
B38	Exploration of the metabolic shifts in the intervention of experimental colitis by Ginseng decoction employing a multi-matrix metabolomics platform <i>Ting Li</i>
B39	Development of a Rapid Analytical Method of Metabolites in Saliva Using Gas Chromatography/Mass Spectrometry for Diagnosis of Periodontal Disease <i>Moe Okuyama, Osaka University</i>
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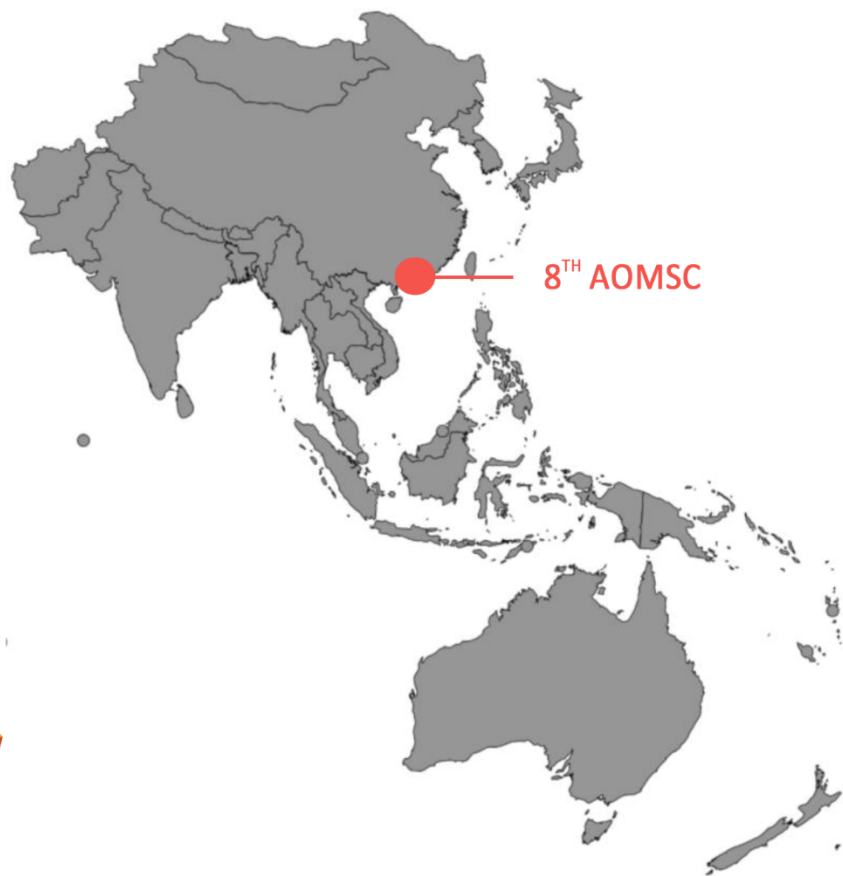


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