

# Joint 11<sup>th</sup> AOHUPO and 7<sup>th</sup> AOAP0 Congress in conjunction with SSMS 2023

8<sup>th</sup> - 10<sup>th</sup> May 2023 | Max Atria@Singapore Expo



Day 1 - 8th May 2023, Monday					
8:00 AM	Registration				
8:15 AM	Welcome Address & Announcements				
8:30 AM	<b>Plenary Session 1</b> Deep learning-assisted mass spectrometry-based proteomics Mathias WILHELM, Technical University of Munich, Germany Session Chair: Wei WU				Venue: Garnet 213 - 215
9:15 AM	<b>Plenary Session 2</b> π-HuB: The Proteomic Navigator of the Human Body Fuchu HE, National Center for Protein Sciences-Beijing, China Session Chair: Teck Yew LOW				
10:00 AM	Morning Tea & Poster Session Day 1 @ Garnet 217-218				
	<b>Session 1A: Disease proteomics I</b> Session Chairs: Lei ZHOU & Tadashi KONDO Venue: Garnet 213 - 215		<b>Session 1B: Metabolomics I</b> Session Chairs: Jianhong CHING & Xueli GUAN Venue: Garnet 212		<b>Session 1C: Agricultural crop proteomics I</b> Session Chairs: Chiew Foan CHIN & Harvey MILLAR Venue: Garnet 219
10:45 AM	<b>1A-1:</b> Patient-derived cancer model for pharmaco-proteogenomics to overcome the limits of cancer genome medicine Tadashi KONDO, National Cancer Center Japan, Japan		<b>1B-1:</b> Mass spectrometry-based clinical metabolomics for precision medicine Ching-Hua KUO, National Taiwan University, Taiwan		<b>1C-1:</b> Functional characterisation of stress-induced proteins identified in different varieties and species of rice under a range of abiotic stress conditions Paul HAYNES, Macquarie University, Australia
11:05 AM	<b>1A-2:</b> Development of proteomic multi-markers for early diagnosis of mild cognitive impairment and dementia using multiple reaction monitoring-mass spectrometry (MRM-MS) Youngsoo KIM, Seoul National University, South Korea		<b>1B-2:</b> Development of a high content lipidomics method using scheduled MRM Shantanu SENGUPTA, Institute of Genomics and Integrative Biology, India		<b>1C-2:</b> Using proteomics data and insights to understand and modify protein composition in breadwheat Harvey MILLAR, University of Western Australia, Australia
11:25 AM	<b>1A-3:</b> Identification and functional characterization of potential targets and biomarkers for Multiple Myeloma Srikanth RAPOLE, National Centre for Cell Science, India		<b>1B-3:</b> Computational mass spectrometry to accelerate systems biology Hiroshi TSUGAWA, Institute of Global Innovation Research, Japan		<b>1C-3:</b> Protein quantitation from hordein-reduced barley and malt Mahya BAHMANI, Edith Cowan University, Australia / YSF
11:35 AM	<b>1A-4:</b> Microproteomics through a trident strategy: mass spectrometry, bioinformatics, and artificial intelligence Alyssa LEONG, UKM Medical Molecular Biology Institute, Malaysia / YSF				<b>1C-4:</b> Phosphoproteomics analysis reveal a role of NRT1.1-coreceptors in regulating balance of H <sup>+</sup> -ATPases in low nitrate Xu Na WU, Yunnan University, China
11:45 AM	Lunch & Poster Session Day 1 @ Garnet 217-218				
	Venue: Garnet 213 - 215			Venue: Garnet 212	
	<b>Sponsored Lunch Symposium 1 by SCIEX</b> Fast proteomics and post-translational modifications analysis using ZenTOF 7600 system Jérémy POTRIQUET, SCIEX, Australia			<b>Sponsored Lunch Symposium 2 by SomaLogic</b> Beyond genomics: The vital role of proteomics in disease biomarker discovery Rym Ben OTHMAN, Australia	
	<b>Session 2A: Disease proteomics II</b> Session Chairs: Tiannan GUO & Xiaobo YU Venue: Garnet 213 - 215		<b>Session 2B: Metabolomics II</b> Session Chairs: James CHAN & Jae Bum KIM Venue: Garnet 212		<b>Session 2C: Agricultural crop proteomics II</b> Session Chairs: Andreas LOPATA & Setsuko KOMATSU Venue: Garnet 219
1:15 PM	<b>2A-1:</b> Discovery of Novel Bioactive Peptides in Plasma based on a High-yield Peptide Extraction Method Yoshio KODERA, Kitasato University, Japan		<b>2B-1:</b> Thyroid hormone activates BCAA metabolism in brown adipose tissue during glucose deprivation Paul YEN, Duke-NUS Medical School, Singapore		<b>2C-1:</b> Construction of the regulatory network on rice seed germination through Proteomics Pingfang YANG, Hubei University, China
1:35 PM	<b>2A-2:</b> Technical advances in clinical proteomics and applications in diagnosing thyroid nodules Tiannan GUO, Westlake University, China		<b>2B-2:</b> Roles of lipid metabolism in autophagy Jae Bum KIM, Seoul National University, South Korea		<b>2C-2:</b> Development of agricultural proteomics and its application to environmental stress-tolerant crop production Setsuko KOMATSU, Fukui University of Technology, Japan
1:55 PM	<b>2A-3:</b> Spatiotemporal transcriptome and proteome landscapes reveal disease-relevant pathways and prioritize diagnostic candidates of end-stage dilated cardiomyopathy Ling LIN, Fudan University, China		<b>2B-3:</b> Probing natural variations in antimicrobial resistant bacteria Xueli GUAN, Nanyang Technological University, Singapore		<b>2C-3:</b> Understanding the recovery mechanism of plant-derived smoke-treated soybean growth under flooding stress through proteomic analysis Xinyue LI, Institute of Food Research, National Agriculture and Food Research Organization, Japan / YSF
2:05 PM	<b>2A-4:</b> Protein-based prognostic prediction model to stratify pediatric patients with papillary thyroid carcinoma Yaoting SUN, Westlake University, China / YSF				<b>2C-4:</b> Proteomic and phosphoproteomic profiling of female flower (cone) development in two contrasting Hop ( <i>Humulus lupulus</i> ) cultivars Bhuvana SHANBHAG, La Trobe University, Australia / YSF
2:15 PM	Afternoon Tea & Poster Session Day 1 @ Garnet 217-218				
	<b>Session 3A: Chemical proteomics &amp; drug discovery I</b> Session Chairs: Wei WU & Hyun-woo RHEE Venue: Garnet 213 - 215		<b>Session 3B: Biomarker discovery</b> Session Chairs: Youngsoo KIM & Xiaobo YU Venue: Garnet 212		<b>Session 3C: Microbiome</b> Session Chairs: Ching-Hua KUO & James CHAN Venue: Garnet 219
3:00 PM	<b>3A-1:</b> The future of proteomics & biological mass spectrometry in the biotechnological and pharmaceutical industry Hanna Budayeva, Genentech Inc, USA		<b>3B-1:</b> In-depth serum proteomics reveals the trajectory of hallmarks of cancer in hepatitis B virus related liver diseases Xiaobo YU, National Center for Protein Sciences-Beijing, China		<b>3C-1:</b> Dissecting the interfaces between the skin microbiome, metabolome and host skin physiology James CHAN, Singapore Institute of Food and Biotechnology Innovation, A*STAR, Singapore
3:20 PM	<b>3A-2:</b> Molecular spatiomics by proximity labeling Hyun-woo RHEE, Seoul National University, South Korea		<b>3B-2:</b> Oxidative stress & redox signaling in Tumorigenesis - New insights from Redox Proteomics Canhua HUANG, Sichuan University, China		<b>3C-2:</b> Target gut microbial metabolism for environmental toxicology and human health Guodong ZHANG, National University of Singapore, Singapore
3:30 PM			<b>3B-3:</b> Proteomic analysis reveals the pathophysiological significance of reverse cholesterol transport in Athero-Inflammation in coronary artery disease Arun BANDYOPADHYAY, CSIR Indian Institute of Chemical Biology, India		
3:40 PM	<b>3A-3:</b> Spatiotemporal protein crosslinking by visible light activation (Spotlight) for in-vivo interactome mapping Pratyush MISHRA, Seoul National University, South Korea / YSF		<b>3B-4:</b> Tear metabolome from patients with diabetic retinopathy using chemical isotope labeling liquid chromatography-mass spectrometry Lei ZHOU, The Hong Kong Polytechnic University, China		<b>3C-3:</b> Dissection of morphological cellular differentiation in a haloarchaeon through multiomics Ping XU, Beijing Proteome Research Center, China
3:50 PM	<b>3A-4:</b> Cellular protein painting with reactive lysine probes for protein structural and drug-binding site analysis Zhenxiang ZHENG, Southern University of Science and Technology, China		<b>3B-5:</b> Integrated proteomic and scRNA-seq analysis of ovarian cancer reveals subtype associated cell ecosystem and immunotherapy target Yu ZHANG, Department of Gynecology, Xiangya Hospital, Central South University, China		<b>3C-4:</b> Probing the understudied sORF-encoded peptides in bacteria Chenxi JIA, National Center for Protein Sciences-Beijing, China
4:00 PM	Short Break				
4:10 PM	<b>Plenary Session 3</b> Lipidomic Variabilities of Human Blood Plasma Markus WENK, National University of Singapore, Singapore Session Chair: Jianhong CHING				Venue: Garnet 213 - 215
4:55 PM	<b>AOHUPO Celebration – Sponsored by Thermo Fisher Scientific</b> Session Chairs: Teck Yew LOW and Yasushi ISHIHAMA Welcome speech by Terence Poon AOHUPO President Presentation of plaques by President to Past Presidents Short speeches by Past Presidents: Richard SIMPSON, Young-Ki PAIK, Kazuyuki NAKAMURA, Fuchu HE, Max CHUNG and Ho Jeong KWON. Cake cutting and photography sessions AOHUPO Council Meeting				
6:15 PM	End of Day 1				
6:30 PM	Welcome Reception – Sponsored by Thermo Fisher Scientific				

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Day 2 - 9th May 2023, Tuesday						
8:00 AM	Registration					
8:15 AM	Announcements					
8:30 AM	<b>Plenary Session 4</b> From recombinant complexes in detergent micelles to receptor signalling across native membranes – The promises and pitfalls of native mass spectrometry Dame Carol ROBINSON, Oxford University, United Kingdom Session Chair: Wei WU				Venue: Garnet 213 - 215	
9:15 AM	<b>Plenary Session 5</b> Navigating drug-targetome-phenotype interaction and its translational impact Ho Jeong KWON, Yonsei University, South Korea Session Chair: Maxey CHUNG					
10:00 AM	Morning Tea & Poster Session Day 2 @ Garnet 217-218					
	<b>Session 4A: Glycoproteomics &amp; Glycomics</b> Session Chairs: Anthony PURCELL & Stuart CORDWELL Venue: Garnet 213 - 215		<b>Session 4B: Phosphoproteomics</b> Session Chairs: Hsueh-Fen JUAN & Yasushi ISHIHAMA Venue: Garnet 212		<b>Session 4C: Chemical proteomics &amp; drug discovery II</b> Session Chairs: Jigang WANG & Chris TAN Venue: Garnet 219	
10:45 AM	<b>4A-1:</b> Understanding structural diversity of Immunogenic Glycans in advanced biological products Using PGC-LC/MS/MS Hyun Joo AN, Chungnam National University, South Korea		<b>4B-1:</b> Large-scale analysis of protein phosphatases using peptide probes containing a nonhydrolyzable phosphotyrosine-mimetic residue Yasushi ISHIHAMA, Kyoto University, Japan		<b>4C-1:</b> Mapping biomolecular interactions at scale with Cellular Protein Biophysics and Protein Mass Spectrometry Chris TAN, Southern University of Science and Technology, China	
11:05 AM	<b>4A-2:</b> Identifying the targets and functions of N-linked glycosylation for better understanding bacterial virulence in humans Stuart CORDWELL, University of Sydney, Australia		<b>4B-2:</b> VPA-associated molecular mechanisms of autism spectrum disorders revealed by proteomics and phosphoproteomics Min-Sik KIM, Daegu Gyeongbuk Institute of Science and Technology, South Korea		<b>4C-2:</b> Chemical proteomic profiling for avian influenza virus infection study Jun-Seok LEE, Korea University, South Korea	
11:25 AM	<b>4A-3:</b> Bacterial Glycoproteome and a case of S-glycosylation! Alka RAO, CSIR Institute of Microbial Technology, Chandigarh, India		<b>4B-3:</b> A universal bacterial proteomics workflow and its application to study the interplay of Phosphorylation and Acetylation-mediated signaling in antimicrobial resistance Miao-hsia LIN, National Taiwan University, Taiwan		<b>4C-3:</b> Target Identification of a marine natural product using a chemoproteomics approach Wan-Chi HSIAO, Institute of Molecular and Genomic Medicine, National Health Research Institutes, Taiwan / YSF	
11:35 AM					<b>4C-4:</b> High-throughput proteome-wide target deconvolution of bioactive small molecules uncovers numerous "undruggable" proteins Qiqi WANG, Southern University of Science and Technology, China	
11:45 AM	<b>4A-4:</b> Regulation of protein N-linked glycosylation site occupancy Mariam Khaleque, The University of Queensland, Australia / YSF		<b>4B-4:</b> Time-resolved phosphoproteomics of colorectal cancer liver metastases resistant to adjuvant chemotherapy reveals PI3K-PAK1 axis as a potential therapeutic target Jun ADACHI, National Institutes of Biomedical Innovation, Health and Nutrition, Japan		<b>4C-5:</b> Mitochondrial intracristal space proteome mapping by super-resolution proximity labeling Myeong-Gyun KANG, Seoul National University, South Korea / YSF	
11:55 AM	Lunch & Poster Session Day 2 @ Garnet 217-218			AOAP0 Council Meeting @ Room 219		
	Venue: Garnet 213 - 215			Venue: Garnet 212		
	Sponsored Lunch Symposium 1 by Thermo Fisher Scientific High throughput LFO DIA workflow on orbitrap Exploris MS Rosa L VINER, Thermo Fisher Scientific, USA An efficient and standardized sample prep workflow for proteomics mass spectrometry Tian Sheng LEW, Thermo Fisher Scientific, Singapore			Sponsored Lunch Symposium 2 by Covaris Confident Sample Preparation for Protein Analysis Debadeep BHATTACHARYYA, Covaris, USA & Yew Mun LEE, National University of Singapore, Singapore		
	<b>Session 5A: Biotherapeutics &amp; clinical applications</b> Session Chairs: Xuezhi BI & Ying Swan HO Venue: Garnet 213 - 215		<b>Session 5B: Proteogenomics</b> Session Chairs: Hoe Han GOH & Dennis KAPPEL Venue: Garnet 212		<b>Session 5C: Nutritional proteomics</b> Session Chairs: Siew-Young QUEK & Subhra CHAKRABORTY Venue: Garnet 219	
1:25 PM	<b>5A-1:</b> Multi-level structural characterization of mAbs, ADCs, BsAbs, Fc-fusion proteins and ImmunoCytokines Alain BECK, Laboratoires Pierre Fabre, France		<b>5B-1:</b> Integrative proteogenomic and pharmacological characterization of cancer samples identifies therapeutic opportunities Minjia TAN, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China		<b>5C-1:</b> Mining multi-omes to dissect the seed gene regulation and nutrient dynamics in cereal towards protein improvement Subhra CHAKRABORTY, National Institute of Plant Genome Research, India	
1:45 PM	<b>5A-2:</b> Deriving insights through omics-based approaches for bioprocess development and drug discovery Ying Swan HO, Bioprocessing Technologies Institute, A*STAR, Singapore		<b>5B-2:</b> Identification of biomarkers and therapeutic targets in gastric cancer by label-free quantitative mass spectrometry Dennis KAPPEL, Cancer Science Institute Singapore, Singapore		<b>5C-2:</b> Integrated MS-based OMICS approaches on revealing the regulation mechanism of plant immunity by peptide cytokines Yet-Ran CHEN, Academia Sinica, Taiwan	
2:05 PM	<b>5A-3:</b> Hsbody, a heat sterilizable antibody-mimetic Hiroshi AMESAKA, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Japan		<b>5B-3:</b> Protein variants in cancer - Leads from proteogenomic analysis of transcriptomic and proteomic data Ravi SIRDESHMUKH, Institute of Bioinformatics, India		<b>5C-3:</b> Deep serum proteomics to explore mechanisms underlying the beneficial effects of plant protein based, calorie restricted diets in prediabetic adults Jia Yee WU, Singapore Institute of Food and Biotechnology Innovation, A*STAR, Singapore	
2:15 PM	<b>5A-4:</b> Functional nanovesicles reprogramming the proteome for cardiac repair David GREENING, Baker Heart and Diabetes Institute, Australia				<b>5C-4:</b> Proteomic analysis of human milk reveals nutritional and immune benefits in the colostrum from mothers with COVID-19 Minjie TAN, Shenzhen Bay Laboratory, China	
2:25 PM	<b>5A-5:</b> Modulation of CXCR4 signaling by receptor clustering and nanobody therapeutics Ziliang MA, Utrecht University, The Netherlands / YSF		<b>5B-4:</b> moPepGen: a fast and comprehensive custom database generator from multi-omics data for proteogenomics Chenghao ZHU, University of California, Los Angeles, China		<b>5C-5:</b> Investigating differences in deer milk proteins during different lactation stages and during in vitro digestion using quantitative proteomics Catherine MAIDMENT, AgResearch/Riddet Institute, New Zealand	
2:35 PM	Afternoon Tea & Poster Session Day 2 @ Garnet 217-218					
	<b>Session 6A: Environmental applications</b> Session Chairs: Debasis DASH & Salmaan Hussain INAYAT HUSSAIN Venue: Garnet 213 - 215		<b>Session 6B: Immunopeptidomics</b> Session Chairs: Hyun Joo AN & Wei WU Venue: Garnet 212		<b>Session 6C: Animal &amp; aquaculture proteomics</b> Session Chairs: Qingsong LIN & Ashok Kumar MOHANTY Venue: Garnet 219	
3:15 PM	<b>6A-1:</b> Risk assessment of discharged produced water from oil and gas industry Salmaan Hussain INAYAT HUSSAIN, PETRONAS, Malaysia		<b>6B-1:</b> The unexplored biology of antigen processing revealed through the lens of immunopeptidomics Anthony PURCELL, Monash University, Australia		<b>6C-1:</b> CRISPR-CAS9 based genome editing of MFGE8 and S100A8 in mammary epithelial cells; and deep proteomic analysis to decipher their role cell function and lactation biology Ashok Kumar MOHANTY, ICAR-Indian Veterinary Research Institute, Mukteswar, India	
3:35 PM	<b>6A-2:</b> Sulfinylation on SOD1 Cys111: novel mechanism for 1-Nitropyrene to promote acute ROS generation Lin ZHU, Hong Kong Baptist University, China		<b>6B-2:</b> Fate of HLA complexes beyond plasma membrane presentation Wei WU, Singapore Immunology Network, A*STAR, Singapore		<b>6C-2:</b> Proteomic differences in farmed and wild-caught black tiger shrimp can impact on food allergen safety assessment Andreas LOPATA, James Cook University, Singapore	
3:45 PM	<b>6A-3:</b> Nontargeted analysis of proteins during wastewater surveillance Sanjeeb MOHAPATRA, National University of Singapore, Singapore					
3:55 PM	<b>6A-4:</b> SWATH-MS reveals that Bisphenol A and its analogs regulate pathways leading to Insulin resistance and obesity Shabda KULSANGE, CSIR- National Chemical laboratory, India / YSF		<b>6B-3:</b> Cysteinylation of cysteines: The key to understanding T cell-mediated antibiotic allergy? Shawn GOH, Monash University, Australia / YSF		<b>6C-3:</b> Enrichment of bovine milk fat globules using polysulfone followed by proteomic characterization of membrane proteins Kiran AMBATIPUDI, Indian Institute of Technology Roorkee, India	
4:05 PM	Short Break					
4:15 PM	<b>Plenary Session 6</b> Micro-to-nano proteomics meeting the unmet needs in clinical proteomics Yu-Ju CHEN, Academia Sinica, Taiwan Session Chair: Yasushi ISHIHAMA				Venue: Garnet 213 - 215	
5:00 PM	End of Day 2					
	SSMS Annual General Meeting @ Garnet 212			Societies Meeting		
6:15 PM	Bus Depart for Conference Banquet Dinner Venue					
6:30 PM	Conference Banquet Dinner					

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Day 3 - 10th May 2023, Wednesday					
Session 7A: Infectious disease		Session 7B: Structural & Native MS		Session 7C: Future food & safety I	
Session Chairs: Arun BANDOPADHYAY & Shantanu SENGUPTA		Session Chairs: Suman KUNDU & Guanbo WANG		Session Chairs: Utpal S TATU & Sixue CHEN	
Venue: Garnet 213 - 215		Venue: Garnet 212		Venue: Garnet 219	
8:30 AM	<b>7A-1:</b> Metabolomic profiling of COVID-19 patients reveals potential prognostic markers that correlate with disease severity Utpal S TATU, Indian Institute of Science, India	<b>7B-1:</b> Improving the accuracy in analysis of native protein complexes from biological samples Guanbo WANG, Peking University, China	<b>7C-1:</b> Multiomics to address the global food security challenge – lessons from CAM research Sixue CHEN, University of Mississippi, USA		
8:50 AM	<b>7A-2:</b> Bats, viruses and pandemics Linfa WANG, Duke-NUS Medical School, Singapore	<b>7B-2:</b> Advances in single-particle mass analysis: orbitrap-based CDMS and Nano-Resonator MS Szu-Hsueh Lai, National Cheng Kung University, Taiwan	<b>7C-2:</b> Two dimensional (2D)- proteomics as a useful tool for comprehensive analysis of allergens in food of plant and animal origins Nuzul Noorahya JAMBARI, Universiti Putra Malaysia, Malaysia		
9:10 AM	<b>7A-3:</b> Proteomic analysis for studying antibiotic resistance mechanisms of pseudomonas aeruginosa clinical isolates Ayuko KIMURA, Gunma Paz University, Japan	<b>7B-3:</b> MS-based structural characterization of biotherapeutics: Top-down, middle-up/down and bottom-up Xuezhi BI, Bioprocessing Technology Institute, A*STAR, Singapore	<b>7C-3:</b> Food-related attributes of protein-enriched extracts from two edible algae: Porphyra umbilicalis (nori) and Chlorella vulgaris Tom WHEELER, Cawthron Institute, New Zealand		
9:20 AM	<b>7A-4:</b> Interactions between the infection derived secreted NS1 from dengue virus and high density lipoprotein determined by integrative structural mass spectrometry Wint Wint PHOO, Duke-NUS Medical School, Singapore				
9:30 AM	<b>7A-5:</b> From SARS to COVID-19 pandemics: the clinical proteomics studies on infectious diseases in Beijing Ditan hospital and Beijing Tiantan hospital Xiaobo YU, National Center for Protein Sciences-Beijing, China	<b>7B-4:</b> Native/charge detection mass spectrometry analysis of membrane proteins in different membrane mimetics Rosa VINER, Thermo Fisher Scientific, USA	<b>7C-4:</b> Proteomic analysis of crustacean and mollusc Skin-Prick-Tests shows variability in shellfish allergen repertoire Thimo RUETHERS, James Cook University, Singapore		
9:40 AM	<b>7A-6:</b> Antibodies from wastewater - profiling and understanding population immunology Federica ARMAS, Singapore MIT Alliance for Research and Technology, Singapore	<b>7B-5:</b> Cross-linking mass spectrometry can discover, evaluate and validate the structural proteome Jason LOW, The University of Sydney, Australia	<b>7C-5:</b> Media formulations with protein hydrolysates for the growth and well-being of cells in the production of cultured meat Yin Ying HO, Bioprocessing Technology Institute, A*STAR, Singapore		
9:50 AM	Morning Tea & Poster Session Day 3 @ Garnet 217-218				
Session 8A: MS technologies I		Session 8B: Systems biology		Session 8C: Future food & safety II	
Session Chairs: Srikanth RAPOLE & Hsiung-lin TU		Session Chairs: Gus GREY & Marc WILKINS		Session Chairs: Nuzul Noorahya JAMBARI & Michelle COLGRAVE	
Venue: Garnet 213 - 215		Venue: Garnet 212		Venue: Garnet 219	
10:35 AM	<b>8A-1:</b> An integrated strategy for streamlined proteomics analysis Hsiung-lin Tu, Academia Sinica, Taiwan	<b>8B-1:</b> The cellular protein methylation network: sites, enzymes, regulation and function Marc WILKINS, University of New South Wales, Australia	<b>8C-1:</b> Proteomics applied to novel protein sources – food safety risks and health benefits Michelle COLGRAVE, Edith Cowan University, Australia		
10:55 AM	<b>8A-2:</b> Enzyme histochemistry using mass spectrometry imaging Shuichi SHIMMA, Osaka University, Japan	<b>8B-2:</b> Network-based multiomics for target and drug discovery Hsueh-Fen JUAN, National Taiwan University, Taiwan	<b>8C-2:</b> Unlocking the nutritional and sustainable potential of selenium-enriched Brassicaceae leaf protein concentrates Siew-Young QUEK, University of Auckland, New Zealand		
11:15 AM	<b>8A-3:</b> Droplet microfluidics-based single-cell proteomic analysis Qun FANG, Zhejiang University, China	<b>8B-3:</b> Fully automated and integrated 96-channel proteomics sample preparation platform applied for high-throughput drug target identification Ruijun TIAN, Southern University of Science and Technology, China	<b>8C-3:</b> Profiling antibody signature of schizophrenia by Escherichia coli proteome microarrays Chien-Sheng CHEN, National Cheng Kung University, Taiwan		
11:25 AM		<b>8B-4:</b> Systems Biology Study of Botanical Carnivory Hoe-Han GOH, Universiti Kebangsaan Malaysia, Malaysia	<b>8C-4:</b> Using proteomic methods to decipher food allergy causing proteins in future foods – Edible insect proteins Shaymaviswanathan KARNANEEDI, James Cook University, Australia / YSF		
11:35 AM	<b>8A-4:</b> Evaluating Linear Ion Trap for MS3-based Multiplexed Single-cell Proteomics Junho PARK, CHA University School of Medicine, South Korea / YSF	<b>8B-5:</b> Predicting protein re-localization events in comparative spatial proteomics using RABT Jun WANG, Southern University of Science and Technology, China	<b>8C-5:</b> Proteomics evaluation of Pyropia seaweed as a novel source of nutritive alternative protein Chee Fan TAN, Bioprocessing Technology Institute, A*STAR, Singapore		
11:45 AM	Lunch & Poster Session Day 3 @ Garnet 217-218				
Venue: Garnet 213 - 215			Venue: Garnet 212		
Sponsored Lunch Symposium 1 by Bruker			Sponsored Lunch Symposium 2 by Waters Pacific Pte Ltd		
Frontier omics technology advances the development of biological and translational research Catherine WONG, Center for Precision Medicine Multi-Omics Research, Peking University Health Science Center, China			Advanced Mass Spectrometry methods for antibody-based products Alain BECK, Biologics CMC & Developability, Laboratories Pierre Fabre, France		
Discovering the local chromatin composition by dda-PASEF combined with label-free quantitation Dennis KAPPEI, Cancer Science Institute of Singapore, Singapore					
Session 9A: MS technologies II		Session 9B: Informatics & big data		Session 9C: Medicinal omics	
Session Chairs: Min-Sik KIM & Yulan WANG		Session Chairs: Tiannan GUO & Qing ZHONG		Session Chairs: Guodong ZHANG & Eric CHAN	
Venue: Garnet 213 - 215		Venue: Garnet 212		Venue: Garnet 219	
1:15 PM	<b>9A-1:</b> Metabolic imaging and spatial proteomics to understand ocular lens nutrient transport Gus GREY, University of Auckland, New Zealand	<b>9B-1:</b> Machine learning of cancer and tissue types from proteomes of 1,277 human tissue samples and 975 cancer cell lines Qing ZHONG, University of Sydney, Australia	<b>9C-1:</b> Application of omics to interrogate drug-induced liver injury (DILI) Eric CHAN, National University of Singapore, Singapore		
1:35 PM	<b>9A-2:</b> Mass spectrometry imaging - a novel technology to explore metabolic heterogeneity in liver cancer Yulan WANG, Nanyang Technological University, Singapore	<b>9B-2:</b> Exploring the evolution, expression and functions of regulatory proteins using systems biology Varodom CHAROENSAWAN, Mahidol University, Thailand	<b>9C-2:</b> Chemical proteomics reveals the targets and mechanisms of natural medicines Jigang WANG, China Academy of Chinese Medical Sciences, China		
1:55 PM	<b>9A-3:</b> Instrument and method development towards enhanced N-Glycan mass spectrometry imaging Peter HOFFMANN, UniSA, Australia	<b>9B-3:</b> dbPDPM: Database for the proteomics driven precision medicine Yunping ZHU, National Center for Protein Sciences-Beijing, China	<b>9C-3:</b> Using LC-MS based methods to unravel the mode of action for bis-1,2,4-triazines, a novel class of antimalarial Peiyuan LUO, Monash University, Australia		
2:05 PM	<b>9A-4:</b> ChIP-MS reveals the local chromatin composition by label-free quantitative proteomics Wai Khang YONG, Cancer Science Institute of Singapore / National University of Singapore, Singapore	<b>9B-4:</b> Deep learning in MS/MS prediction and its application in phosphoproteomics Liang QIAO, Fudan University, China			
2:15 PM	<b>9A-5:</b> Development of a universal magnetic-bead proteomic sample prep workflow Michael ROSENBLATT, Promega, USA	<b>9B-5:</b> The pitfalls of using entrapments for validation of false discovery rate estimation in proteomics Dominik MADEJ, The Hong Kong University of Science and Technology, China	<b>9C-4:</b> Exploring the mechanism of dichloromethane Clinacanthus nutans leaves extracts in the treatment of breast cancer cells by transcriptome and molecular docking Zateha MD TOHA, Advanced Medical and Dental Institute, Universiti Sains Malaysia, Malaysia		
2:25 PM	Afternoon Tea & Poster Session Day 3 @ Garnet 217-218				
3:10 PM	Plenary Session 7 Salinity-responsive mechanisms in forage grass revealed from multi-omics approaches Shaojun DAI, Shanghai Normal University, China  Session Chair: Qingsong LIN				Venue: Garnet 213 - 215
3:55 PM	Closing Ceremony & Awards Presentation				
4:30 PM	End of Day 3				