



Daily Program

Monday, November 7, 2022			
Time	COVID-19 Special Session Moderator: Han-Chung Wu (Taiwan) Tien-Hsien Chang (Taiwan) Venue: International Conference Hall, 3F	Time	Educational Workshop Moderator: Tzu-Ching Meng (Taiwan) Venue: 1st Conference Room, 3F (On-Site only)
09:00 - 12:20 15 mins each	CS-1: COVID-Inspired Fundamental Research in Biomedicine, Informatics, and Bioengineering <i>James C. Liao (Taiwan)</i>	09:00 - 13:00	(30 mins)(9:05-9:35) EW-1: Make the Most of Your PhD Study <i>Moses Shang-Min Lin (Taiwan)</i>
	CS-2: Inhibition of SARS-CoV-2 Infection by Natural Products <i>Mien-Chie Hung (Taiwan)</i>		(55 mins)(9:35-10:30) EW-2: What I have Learned when Studying for a PhD in TIGP <i>Cheng-Chung Wang (Taiwan)</i>
	CS-3: Learnings and Innovations in Continuing to Address the COVID-19 Pandemic <i>John L. Perez (USA)</i>		(55 mins)(10:35-11:30) EW-3: Decoding Postdoc Hunting and Hiring: A Case Study on Myself <i>Ming-Jung Liu (Taiwan)</i>
	CS-4: Accelerated RNA Drug Development and Manufacturing by the Pandemic <i>Chung-Hsiun Wu (Taiwan)</i>		(90 mins)(11:30-13:00) EW-4: Resume Writing and Interview Skills <i>Wendy Ying-Wen Lin (Taiwan)</i>
	CS-5: ITRI's Open Innovation and Agile Development in Response to COVID-19 <i>Chii-Wann Lin (Taiwan)</i>		
	CS-6: The Rationale and Journey of Research for COVID-19 Pandemic Control in Taiwan <i>Yee-Chun Chen (Taiwan)</i>		
	CS-7: Molecular Virology Study of SARS-CoV-2 and Related Clinical Applications <i>Shin-Ru Shih (Taiwan)</i>		
	CS-8: Development of Nucleic Acid-Based Vaccine against COVID-19 <i>Shih-Jen Liu (Taiwan)</i>		
	CS-9: Adaptive Immune Responses to SARS-CoV-2 Vaccination and Infection <i>Kuo-I Lin (Taiwan)</i>		
	CS-10: An Anti-viral Lectin and a Broad-Spectrum COVID-19 Vaccine <i>Che Alex Ma (Taiwan)</i>		
	CS-11: Development of SARS-CoV-2 Delta x Omicron Hybrid mRNA Vaccine <i>Mi-Hua Tao (Taiwan)</i>		
13:00 - 17:00	Registration		

14:00 - 14:30	Opening Ceremony Venue: International Conference Hall, 3F
14:30 - 14:40	Group Photo
Time	Keynote Lecture 1 Moderator: Cheng-Wen Wu (Taiwan) Venue: International Conference Hall, 3F
14:40 - 15:40	KY-1: Design and Evolution for New Metabolism <i>James C. Liao (Taiwan)</i>
15:40 - 16:00	Break
Time	Symposium 1: Cancer Cell Biology Moderator: Mien-Chie Hung (Taiwan), Shao Chun Wang (Taiwan) Venue: International Conference Hall, 3F
16:00 - 17:40	SP1-1: MYC & Challenges in Targeting Cancer Metabolism <i>Chi Van Dang (USA)</i>
	SP1-2: Plumbing Mysterious RNAs in "Dark Genome" for the Conquest of Human Diseases <i>Liuqing Yang (USA)</i>
25 mins each	SP1-3: Cancer Modeling and Therapeutic Development Using Patient-Derived iPSCs <i>Dung-Fang Lee (USA)</i>
	SP1-4: Marker-Guided Effective Therapy <i>Mien-Chie Hung (Taiwan)</i>
Time	Student Talks for Awards 1 Moderator: Guey-Shin Wang (Taiwan) Venue: 1st Conference Room, 3F (On-site only)
17:40 - 18:40	ST1-1: XPF Activates Break-Induced Telomere Synthesis <i>Chia-Yu Guh (Taiwan)</i>
	ST1-2: Stroma-Enriched ER Protein TXNDC5 Potentiates Pancreatic Adenocarcinoma Progression by Creating a Desmoplastic and Immunotolerant Microenvironment <i>Hsin-Hui Wang (Taiwan)</i>
15 mins each	ST1-3: Dermal Adipocytes Activate Hair Follicle Stem Cells through Metabolic Priming <i>Kang-Yu Tai (Taiwan)</i>
	ST1-4: N-Cadherin Serves as a Novel Therapeutic Target on Cardiac Regeneration Following Cardiac Injury Through β -Catenin Dependent Mechanism <i>Yi-Wei Tsai (Taiwan)</i>
18:40 - 20:00	Welcome Reception Venue: Recreation Hall, 4F



Tuesday, November 8, 2022	
08:30 - 18:00	Registration
Time	Symposium 2: Bioengineering in Cell Mechanics Moderator: <i>Hong-Chen Chen (Taiwan), Jean-Cheng Kuo (Taiwan)</i> Venue: International Conference Hall, 3F
09:00 - 10:40	SP2-1: Biomechanics of Leukocyte Extravasation and Amoeboid Migration through 3D Matrices <i>Juan Carlos. Del Alamo (USA)</i>
10:40	SP2-2: Dissecting Integrin-mediated Mechanotransduction by Optogenetics <i>Pakorn Kanchanawong (Singapore)</i>
25 mins each	SP2-3: Mechanisms of Nuclear Positioning during Cell Migration and Skeletal Muscle Formation <i>Edgar Gomes (Portugal)</i>
	SP2-4: Roles of Microtubule and Motor Proteins in Neuronal Migration and Brain Development <i>Jin-Wu Tsai (Taiwan)</i>
10:40 - 11:00	Break
Time	Keynote Lecture 2 Moderator: <i>Bon-Chu Chung (Taiwan)</i> Venue: International Conference Hall, 3F
11:00 - 12:00	KY-2 How do Microtubule Drugs Act as Medicines? <i>Timothy Mitchison (USA)</i>
12:00 - 13:00	Lunch

Time	Mini-Symposium 1: Microtubules Venue: Recreation Hall, 4F	Mini-Symposium 2: Cell Biology in Plant System Venue: 2nd Conference Room, 3F	Mini-Symposium 3: Centrosome and Cilia in Disease and Cancer Venue: 1st Conference Room, 3F	Mini-Symposium 4: Cell Biology in Innate Immunity Venue: International Conference Hall, 3F
13:00 - 14:40 20 mins each	<p>Moderator: <i>Yu-Chun Lin (Taiwan)</i> <i>Jen-Hsuan Wei (Taiwan)</i></p> <p>MS1-1: The Tubulin Code: A Cytoskeletal Mechanism Underlying Cellular Homeostasis <i>Carsten Janke (France)</i></p> <p>MS1-2: Non-Catalytic Allostery in α-TAT1 by a Phospho-Switch Drives Dynamic Microtubule Acetylation <i>Takanari Inoue (USA)</i></p> <p>MS1-3: Single-Molecule Imaging of Cytoplasmic Dynein in Cellulo Reveals the Mechanism of Motor Activation and Cargo Capture <i>Vaishnavi Ananthanarayanan (Australia)</i></p> <p>MS1-4: Precise Control of Microtubule Disassembly in Living Cells <i>Yu-Chun Lin (Taiwan)</i></p> <p><u>Short Talk*2</u> (10 mins each) MS1-5: r-TuRC Regulates Neuronal Migration During Cortical Development <i>Jen-Hsuan Wei (Taiwan)</i></p> <p>MS1-6: Tubulin Concentration and Nucleation by Centrosomal Scaffolding Proteins through Liquid-Liquid Phase Separation <i>Hui-Chun Cheng (Taiwan)</i></p>	<p>Moderator: <i>Chin-Min Kimmy Ho (Taiwan)</i> <i>Chung-Ju Wang (Taiwan)</i></p> <p>MS2-1: Cellular Mechanisms Generating Robustness in the Morphogenesis of Arabidopsis <i>Adrienne H. K. Roeder (USA)</i></p> <p>MS2-2: Cell Type-Specific Regulation of Brassinosteroid Signaling in Stomatal Lineage <i>Jenny Russinova (Belgium)</i></p> <p>MS2-3: Genome Maintenance Strategies in Plant Stem Cells <i>Masaaki Umeda (Japan)</i></p> <p>(15 mins) MS2-4: Leaf Epidermal Development: Fate Determination and Coordination <i>Chin-Min Kimmy Ho (Taiwan)</i></p> <p><u>Short Talk*2</u> (15 mins each) MS2-5: Visualizing Recombination Filaments in Plant Meiosis Using Expansion Microscopy (ExM) <i>Chung-Ju Wang (Taiwan)</i></p> <p>MS2-6: Rapid Alkalinization Factors in Apical Tip Growth-It Takes Two to Tango. <i>Ooi-Kock Teh (Taiwan)</i></p>	<p>Moderator: <i>Jin-Wu Tsai (Taiwan)</i></p> <p>MS3-1: Cilia-Secretory Hybrid Cells in Airway Development and Disease States <i>Mu He (Hong Kong)</i></p> <p>MS3-2: Biological Information Underlying Cellular Complexity <i>Meng-Fu Bryan Tsou (USA)</i></p> <p>MS3-3: Application of the Centrosome in Cancer Therapy <i>Won-Jing Wang (Taiwan)</i></p> <p>MS3-4: Development of Multiciliated Ependymal Cells <i>Nathalie Spassky (France)</i></p> <p><u>Short Talk*2</u> (10 mins each) MS3-5: Nucleolar Spindle-Associated Protein NuSAP: A novel Regulator of Centrosome Integrity <i>Yih-Cherng Liou (Singapore)</i></p> <p>MS3-6: Single-Molecule Localization Microscopy of Expanded Mammalian Centrioles Unravels the Ultrastructural Constitution of Distal Appendages <i>T. Tony Yang (Taiwan)</i></p>	<p>Moderator: <i>Ya-Jen Chang (Taiwan)</i></p> <p>MS4-1: TREM2-Based Strategies in Neurodegeneration and Cancer <i>Marco Colonna (USA)</i></p> <p>MS4-2: Memory Responses by Innate-Like T Cells after Strong Antigenic Stimulation <i>Mitchell Kronenberg (USA)</i></p> <p>MS4-3: The Critical Role of Platelet-Neutrophil Interactions in SARS-CoV-2-Induced Immunothrombosis <i>Shie-Liang Hsieh (Taiwan)</i></p> <p>MS4-4: The Ketone Body β-hydroxybutyrate Mitigates ILC2-driven Airway Inflammation by Regulating Mast Cell Function <i>Ya-Jen Chang (Taiwan)</i></p> <p><u>Short Talk*2</u> (10 mins each) MS4-5: The Protective Roles of Interleukin-33 in Acute Tissue Injury <i>Wei-Yu Chen (Taiwan)</i></p> <p>MS4-6: How Resident Thymic Macrophages Cope with the Work and Life Balance <i>Chia-Lin Hsu (Taiwan)</i></p>
14:40 - 15:10	Break			



Time	Symposium 3: Intracellular Trafficking Moderator: Fang-Jen Lee (Taiwan) Venue: International Conference Hall, 3F
15:10 - 16:50 25 mins each	SP3-1: Rethinking the Secretory Pathway <i>Benjamin Glick (USA)</i> SP3-2: GTPase Regulation of Golgi Membrane Dynamics: A Structural Perspective <i>J. Christopher Fromme (USA)</i> SP3-3: The Cooperative Action of Two Different Classes of Tethers in Mediating Proper Recycling Transport upon Post-ER Stress <i>Fang-Jen S. Lee (Taiwan)</i> SP3-4: Intracellular Transport and Kinesin Superfamily Molecular Motors, KIFs: Regulation of Brain Functions, Development and Related Diseases <i>Nobutaka Hirokawa (Japan)</i>
16:50 - 17:50	Poster Session 1
Time	Symposium 4: Cell Science in Biotechnology Moderator: Andrew H.-J. Wang (Taiwan), Chia-Ning Shen (Taiwan) Venue: International Conference Hall, 3F
17:50 - 18:50 20 mins each	SP4-1: Humans as the Model: Human Organ Farms <i>Quin Wills (UK)</i> SP4-2: The Starting Line of Your Next Cell Therapy Race Is the Right iPSC Line <i>Jiwu Wang (USA)</i> SP4-3: The Light of Next-Generation CAR-T <i>Chien-Ting Lin (Taiwan)</i>

Wednesday, November 9, 2022		
08:30 - 17:30	Registration	
Time	Symposium 5: Inflammation & Diseases Moderator: <i>Tse-Hua Tan (Taiwan)</i> Venue: International Conference Hall, 3F	
	SP5-1: Metabolic Stress Signaling by JNK <i>Roger J. Davis (USA)</i>	
09:00 - 10:40	SP5-2: Protein Tyrosine Phosphatases and the Regulation of Cell Signaling: From Basic Research to New Therapeutics <i>Nicholas K. Tonks (USA)</i>	
25 mins each	SP5-3: Cytokine Signaling: Many Answers, Many Remaining Questions <i>John Joseph O'Shea (USA)</i> SP5-4: IL-17 Family Cytokines in Inflammation and Cancer <i>Chen Dong (China)</i>	
10:40 - 11:00	Break	
Time	Keynote Lecture 3 Moderator: <i>Ann-Shyn Chiang (Taiwan)</i> Venue: International Conference Hall, 3F	
11:00 - 12:00	KY-3: What Can Single Molecules Tell Us about Coronavirus Infection and Cryo-Electron Tomography? <i>William Esco Moerner (USA)</i>	
	Lunch Symposium (Lunch Provided) Sponsored by: Thermo Fisher Scientific Venue: Recreation Hall, 4F	Lunch
12:00 - 13:00	LS-1: Invitrogen BigFoot Spectral Cell Sorter – Partner for Immunology Research <i>Grace Lin (Taiwan)</i>	
20 mins each	LS-2: Digital PCR Application in Liquid Biopsy: Quantification of Rare Cancer Mutations Using Absolute Q Digital PCR System <i>Nai-Chen Chao (Taiwan)</i>	
	LS-3: Biobanking, Best Practice in Sample Handling & Storage <i>PF Boris Cheng (Hong Kong)</i>	



Time	Mini-Symposium 5: Extracellular Vesicles Venue: Recreation Hall, 4F	Mini-Symposium 6: Healthy Aging and Longevity Venue: 2nd Conference Room, 3F	Mini-Symposium 7: Cell Biology in Nervous System Venue: International Conference Hall, 3F	Mini-Symposium 8: Cryo-EM Venue: 1st Conference Room, 3F
13:00 - 14:40 20 mins each	<p>Moderator: <i>Tang-Long Shen (Taiwan)</i></p> <p>MS5-1: Extracellular Vesicles from Human Progenitor Cells towards Anti-Fibrotic Therapy <i>Takahiro Ochiya (Japan)</i></p> <p>MS5-2: Scientific Rationale for the Efficacy of Topically Applied MSC Exosomes against Psoriasis and other Dermatological Diseases <i>Sai Kiang Lim (Singapore)</i></p> <p>MS5-3: The Protocol Optimization for Plasma Exosome Proteomics and its Application to the Discovery of Protein Biomarkers of Triple-Negative Breast Cancer <i>Chao-Jung Chen (Taiwan)</i></p> <p>MS5-4: Integrated Nanosensor Technologies for Molecular Analyses of Circulating Biomarkers <i>Huilin Shao (Singapore)</i></p> <p><u>Short Talk*2</u> (10 mins each)</p> <p>MS5-5: Synaptic Vesicle Protein Flower Dictates Exo-endo Coupling and Neurotransmission through Dual Transmembrane Domain-dependent Mechanisms <i>Chi-Kuang Yao (Taiwan)</i></p> <p>MS5-6: Rab37 Mediates Trafficking and Membrane Presentation of PD-1 in T cells to Foster an Immunosuppressive Microenvironment in Lung Cancer <i>Wan-Ting Kuo (Taiwan)</i></p>	<p>Moderator: <i>Ting-Fen Tsai (Taiwan)</i> <i>Ao-Lin Hsu (Taiwan)</i></p> <p>MS6-1: Translating Aging Discoveries to Delay Human Aging and Extend Healthspan <i>Brian Keith Kennedy (Singapore)</i></p> <p>MS6-2: The Dog Aging Project: An Open Science Study of Aging in Companion Dogs <i>Matt Kaeberlein (USA)</i></p> <p>MS6-3: Roles for FoxO3 in Mitochondrial and Metabolic Responses to Dietary Restriction in Mice <i>Isao Shimokawa (Japan)</i></p> <p>(10 mins each)</p> <p>MS6-4: Mass Up Aging Skeletal Muscle Study of mTORC1 and Sarcopenia <i>Shih Yin Tsai (Singapore)</i></p> <p>MS6-5: Dietary Restriction and Aging: A Gut Feeling of Improved Health <i>Pei-Yu Wang (Taiwan)</i></p> <p>MS6-6: Enhancing C1SD2 Prolongevity Gene Expression to Promote Healthy Aging <i>Ting-Fen Tsai (Taiwan)</i></p> <p>MS6-7: The Unexpected Role of HSF-1 in Modulating Histone H4 in Mitochondria to Control Longevity <i>Ao-Lin Hsu (Taiwan)</i></p>	<p>Moderator: <i>Shen-Ju Chou (Taiwan)</i> <i>Chih-Cheng Chen (Taiwan)</i></p> <p>MS7-1: Spatiotemporal Controlled Proteasomes Modulate Axon Maturation and Beyond <i>Pei-Lin Cheng (Taiwan)</i></p> <p>MS7-2: Genetic and Cell Biological Strategies to Create Stereotyped Neuron Arbors <i>Adrian W Moore (Japan)</i></p> <p>MS7-3: Cell Migration in the Developing Cerebral Cortex <i>Kazunori Nakajima (Japan)</i></p> <p>MS7-4: Transcription Factors and Cortical Patterning <i>Shen-Ju Chou (Taiwan)</i></p> <p><u>Short Talk</u> MS7-5: TDP-43 is Essential for Oligodendrocyte Myelination by Regulating SREBF2-mediated Cholesterol Metabolism <i>Shuo-Chien Ling (Singapore)</i></p>	<p>Moderator: <i>Ming-Daw Tsai (Taiwan)</i></p> <p>MS8-1: Cryogenic Electron Tomography of Cells Reveals Structural Details from Organelles to Macromolecules <i>Wah Chiu (USA)</i></p> <p>MS8-2: Structural Studies of Endogenous Proteins by Single Particle Cryo-EM <i>Yifan Cheng (USA)</i></p> <p>MS8-3: Structural and Functional Annotations of Glycosylation of Coronavirus Spike Proteins <i>Shang-Te Hsu (Taiwan)</i></p> <p>MS8-4: Assembly Mechanism of the Pleomorphic Immature Poxvirus Scaffold <i>Matthias Wolf (Japan)</i></p> <p>MS8-5: Identifying DNA Mismatch Governing Factors in Human DMC1 and RAD51 from Cryo-EM Structures <i>Meng-Chiao Ho (Taiwan)</i></p>

14:40 - 15:10	Break
Time	Symposium 6: Noncoding RNA in Cell Biology and Diseases Moderator: <i>Hsing-Jien Kung (Taiwan), Jing-Wen Shih (Taiwan)</i> Venue: International Conference Hall, 3F
15:10 - 16:50 25 mins each	SP6-1: Mapping RNA Structures in Single Cells <i>Yue Wan (Singapore)</i> SP6-2: Genome Regulation through R-loops <i>Kavitha Sarma (USA)</i> SP6-3: Functions and Modes of Action of Long Noncoding RNAs in Mammalian Cells <i>Igor Ulitsky (Israel)</i> SP6-4: Mislocalized NEAT1-Induced Cytoplasmic TDP-43 Condensate Assembly Leads to TDP-43 Proteinopathy in ALS Motor Neurons <i>Hung-Chih Kuo (Taiwan)</i>
Time	Special Lecture Moderator: <i>Cheng-Ting Chien (Taiwan)</i> Venue: International Conference Hall, 3F
16:50 - 17:50	SL1-1: Mapping Dynamic Memory Connectomes <i>Ann-Shyn Chiang (Taiwan)</i>
Time	Student Talks for Awards 2 Moderator: <i>Chi-Kuang Yao (Taiwan)</i> Venue: 1st Conference Room, 3F (On-site only)
17:50 - 18:50 15 mins each	ST2-1: Epigenetic Regulation of Myocardial SERCA2a and Calcium Homeostasis by Long Noncoding RNA Inc-SYNPO <i>Wei-Lun Song (Taiwan)</i> ST2-2: A Novel SOX17-low/NRF2-high Signature in Esophageal Squamous Cell Carcinoma with Chemoradiotherapy Resistance and Its Potential to Be a Therapeutic Target <i>Chih-Hsiung Hsieh (Taiwan)</i> ST2-3: Molecular Mechanisms Underlying Human Protein Primer GYG-Mediated Glycogen Metabolism in Glycogen Storage Disease XV <i>Tzu-Han Weng (Taiwan)</i> ST2-4: The Indispensable Role CD36 + -Tissue Resident Macrophages in Cardiac Regeneration <i>Yen-Ling Hung (Taiwan)</i>



Thursday, November 10, 2022	
08:30 - 17:30	Registration
Time	Symposium 7: Stem Cell Biology Moderator: <i>Sung-Jan Lin (Taiwan), Shau-Ping Lin (Taiwan)</i> Venue: International Conference Hall, 3F
	SP7-1: Regulation of Neural Stem Cell Fate <i>Yukiko Gotoh (Japan)</i>
09:00 - 10:40	SP7-2: iPSCs from Reproductively Activated and Suppressed Naked Mole-Rats: A Toolbox for The Study of Developmental Tempo, Fertility and Aging <i>Diana Laird (USA)</i>
25 mins each	SP7-3: Using a Diverse Panel of ALS Patient Stem Cells to Identify Broadly-Effective Therapeutic Targets <i>Justin Ichida (USA)</i>
	SP7-4: Environmental Effect on Hair Regeneration <i>Sung-Jan Lin (Taiwan)</i>
10:40 - 11:00	Break
Time	Keynote Lecture 4 Moderator: <i>Hsing-Jien Kung (Taiwan)</i> Venue: International Conference Hall, 3F
11:00 - 12:00	KY-4: Regulation of Wnt Signaling by Liquid-Liquid Phase Separation <i>Ye-Guang Chen (China)</i>
12:00 - 13:00	Lunch

Time	Mini-Symposium 9: Novel Technologies Venue: 1st Conference Room, 3F	Mini-Symposium 10: Tumor Microenvironment and Potential Therapeutic Approach Venue: International Conference Hall, 3F	Mini-Symposium 11: Microbes and Host Interplay Venue: Recreation Hall, 4F	Mini-Symposium 12: Autophagy Venue: 2nd Conference Room, 3F
13:00 - 14:40 20 mins each	<p>Moderator: <i>Jung-Chi Liao (Taiwan)</i></p> <p>MS9-1: Cruising in the Cells <i>Atsushi Miyawaki (Japan)</i></p> <p>MS9-2: In Vivo Tracking of Extracellular Vesicles and DNA Repairs <i>Charles Pin-Kuang Lai (Taiwan)</i></p> <p>MS9-3: 3D Multi-Resolution Approach to Molecular and Nanoscale Processes in Biology <i>Haw Yang (USA)</i></p> <p>MS9-4: Optoproteomics: Microscopy-Based Subcellular Proteomics <i>Jung-Chi Liao (Taiwan)</i></p> <p><u>Short Talk</u> MS9-5: De novo Design of Proteins Materials across Multiple Length Scales <i>Yang Hsia (USA)</i></p>	<p>Moderator: <i>Wen-Chun Hung (Taiwan)</i></p> <p>MS10-1: Metabolism in Cancer and Immune Regulation <i>Hui-Kuan Lin (USA)</i></p> <p>MS10-2: Replication Stress Response Defects Predict and Enhance Immune Checkpoint Therapy Response in Triple Negative Breast Cancer <i>Shiaw-Yih Lin (USA)</i></p> <p>MS10-3: Cellular Senescence and Cancer: A Gut Microbial Connection <i>Eiji Hara (Japan)</i></p> <p>MS10-4: Dynamic Interplay between Cancer and Immune Cells during Tumor Progression <i>Muh-Hwa Yang (Taiwan)</i></p> <p>MS10-5: Mitochondria Control Cancer Immunoescape and Resistance in the Tumor Microenvironment <i>Yueh-Luen Lee (Taiwan)</i></p>	<p>Moderator: <i>Fu-Tong Liu (Taiwan)</i> <i>Tzu-Ching Meng (Taiwan)</i></p> <p>MS11-1: The Interplay between Helicobacter Pylori and Gastrointestinal Microbiota <i>Ming-Shiang Wu (Taiwan)</i></p> <p>MS11-2: Spatial-, Temporal- and Inter-Person Variation of Metabolites across the Upper and Lower Human Gastrointestinal Tract <i>Oliver Fiehn (USA)</i></p> <p>MS11-3: Genome Instability Induced by the Helicobacter Pylori CagA Oncoprotein <i>Masanori Hatakeyama (Japan)</i></p> <p><u>Short Talk</u> (10 mins)(14:00-14:10) MS11-4: Epithelial-microbial Diplomacy: Tighten Borders Reduce Inflammation in Colitis <i>Cheng-Yuan Kao (Taiwan)</i></p> <p>(20 mins)(14:10-14:30) MS11-5: The Human Skin Microbiome in Health and Disease <i>Heidi Kong (USA)</i></p> <p><u>Short Talk</u> (10 mins)(14:30-14:40) MS11-6: Effect of Diet on the Restructuring of Microbiota in Patients with Colorectal Cancer after Surgical Treatment <i>Tzu-Ching Meng (Taiwan)</i></p>	<p>Moderator: <i>Guang-Chao Chen (Taiwan)</i></p> <p>MS12-1: Liquid-Liquid Phase Separation of TFEB in Autophagy Regulation <i>Hong Zhang (China)</i></p> <p>MS12-2: Distinct Molecular Mechanisms and Functions of Non-Canonical Autophagy in Lysosomal Biogenesis <i>Oliver Florey (UK)</i></p> <p>MS12-3: Targeted Protein Degradation via the Autophagy-Lysosome System: AUTOTAC (AUTOPhagy-TARgeting Chimera) <i>Yong Tae Kwon (South Korea)</i></p> <p>MS12-4: Interplay between Oxidative Stress and Autophagy in Development and Diseases <i>Guang-Chao Chen (Taiwan)</i></p> <p><u>Short Talk*2</u> (10 mins each) MS12-5: Temporal Characteristics of Calcium-Elicited Autophagy <i>Wei-Yuan Yang (Taiwan)</i></p> <p>MS12-6: Apolipoprotein J Chaperones mTOR to Suppress Lipophagy and Facilitate Hepatic Lipid Deposition <i>Hung-Yu Sun (Taiwan)</i></p>
14:40 - 15:00	Break			



15:00 - 16:00	Poster Session 2
Time	Symposium 8: Epithelial Mesenchymal Transition Moderator: <i>Muh-Hwa Yang (Taiwan)</i> Venue: International Conference Hall, 3F
16:00 - 17:30 30 mins each	SP8-1: 3D Genome Organization in the Epithelial-Mesenchymal Transition Spectrum <i>Ruby Yun-Ju Huang (Taiwan)</i> SP8-2: Non-Canonical Functions of Matrix Metalloproteinases during EMT of Xenopus Neural Crest Cells <i>Eric Théveneau (France)</i> SP8-3: Deconstructing How EMT Transcription Factor Activation Leads to Coordinated Changes in Multiple Cellular Processes <i>Kyra Campbell (UK)</i>
Time	Symposium 9: Cell Science in Translation Medicine Moderator: <i>Li-Tzong Chen (Taiwan)</i> Venue: International Conference Hall, 3F
17:30 - 18:30 20 mins each	SP9-1: Deciphering the Integrated Cell Migration System to Achieve "Synthetic Dysmobility" <i>Feng-Chiao Tsai (Taiwan)</i> SP9-2: Implementing Translational Research of New Drug Development: The Case for Hepatocellular Carcinoma (HCC) <i>Chiun Hsu (Taiwan)</i> SP9-3: B Cells and Antibodies are Major Players in Immunotherapy Response <i>Wolf H. Fridman (France)</i>
19:30 - 21:00	Farewell Banquet (Invited) Venue: Grande Luxe Banquet Nangang

Friday, November 11, 2022	
08:30 - 13:30	Registration
Time	Symposium 10: Genome Instability and Cancer Moderator: <i>Hung-Yuan Chi (Taiwan), Zee-Fen Chang (Taiwan)</i> Venue: International Conference Hall, 3F
09:00 - 10:40 25 mins each	SP10-1: Impacts of Transcription and RNA on DNA Break Repair <i>Lee Zou (USA)</i> SP10-2: DNA Mismatch Repair in Cancer Immunotherapy <i>Guo-Min Li (USA)</i> SP10-3: Genome Instability and Cancer: Lessons from Analysis of Homologous Recombination Factors <i>Ian D. Hickson (Denmark)</i> SP10-4: Unveiling RAD51-Mediated DNA Dynamics in Replication Fork Restart <i>Hung-Yuan Chi (Taiwan)</i>
10:40 - 11:00	Break
Time	Keynote Lecture 5 [Tang Prize lecture] Moderator: <i>Fu-Tong Liu (Taiwan)</i> Venue: International Conference Hall, 3F
11:00 - 12:00	KY-5: Interleukin 6: From Arthritis to COVID-19 <i>Tadamitsu Kishimoto (Japan)</i>
12:00 - 13:00	Lunch



Time	Mini-Symposium 13: Liquid-Liquid Phase Separation in Health and Disease Venue: 2nd Conference Room, 3F	Mini-Symposium 14: Cell Biology in Development Venue: Recreation Hall, 4F	Mini-Symposium 15: Epigenetics Venue: International Conference Hall, 3F	Mini-Symposium 16: Protein Quality Control Venue: 1st Conference Room, 3F
13:00 - 14:40	<p>Moderator: <i>Jen-Tse Huang (Taiwan)</i> <i>Jie-Rong Huang (Taiwan)</i></p> <p>(15 mins)(13:00-13:15) MS13-1: Liquid-Liquid Phase Separation in Ciliogenesis <i>Jie-Rong Huang (Taiwan)</i></p> <p>(20 mins)(13:15-13:35) MS13-2: Demixing Transition of Low-Density Condensates <i>Yongdae Shin (South Korea)</i></p> <p>(15 mins)(13:35-13:50) MS13-3: Learning from the Low Complexity Domain in DNA/RNA Binding Proteins: From Basic Science to Applications <i>Jen-Tse Huang (Taiwan)</i></p> <p>(20 mins)(13:50-14:10) MS13-4: Stimuli-Responsive Peptide Coacervates as Universal Carriers for Intracellular Delivery of Macromolecular Therapeutics <i>Ali Miserez (Singapore)</i></p> <p>(30 mins)(14:10-14:40) MS13-5: Biomolecular Condensates at the Nexus of Cellular Stress, Disease and Aging <i>Simon Alberti (Germany)</i></p>	<p>Moderator: <i>Yi-Hsien Su (Taiwan)</i></p> <p>(25 mins each) MS14-1: Ribosomes in Gene Regulation: Controlling the Diversity of Proteins Made in Cells, Tissues & Organisms <i>Maria Barna (USA)</i></p> <p>MS14-2: A Controlled Sequence of X-Chromosome Inactivation and Reactivation Defines Female Mouse in vitro Germ Cells with Meiotic Potential <i>Bernard Payer (Spain)</i></p> <p>MS14-3: A Push-Pull Mechanism of Microtubule-Spectrin Mechanics Controls Apical Cell Shape Homeostasis during Epithelial Folding <i>Yu-Chiun Wang (Japan)</i></p> <p>MS14-4: RNA-Binding Protein RBM24 Facilitates Cardiac Myofibrillogenesis in a Differentiation Stage-Specific Manner <i>Su-Yi Tsai (Taiwan)</i></p>	<p>Moderator: <i>Kou-Juey Wu (Taiwan)</i> <i>Jun-An Chen (Taiwan)</i></p> <p>(25 mins each) MS15-1: Harnessing Genomic Technologies for Insights into Chromatin Architecture and Transcriptional Regulation <i>Chia-Lin Wei (USA)</i></p> <p>MS15-2: Therapeutic Targeting of BAP1-Deficient Tumors <i>Teh Bin Tean (Singapore)</i></p> <p>MS15-3: Unraveling the Dynamic 3D Genome Architecture through Single-Cell DNA Replication Profiling <i>Ichiro Hiratani (Japan)</i></p> <p>MS15-4: LncRNA <i>Meg3</i> Coalesces with Diverse Epigenetic Regulators to Administer Epigenetic Landscape upon Neuronal Maturation <i>Jun-An Chen (Taiwan)</i></p>	<p>Moderator: <i>Hsueh-Chi Yen (Taiwan)</i></p> <p>(20 mins each) MS16-1: Ubiquitin-Dependent Stress Signaling at the Crossroads of Development and Disease <i>Michael Rape (USA)</i></p> <p>MS16-2: Ribosome-Associated Quality Control from Bacteria to Humans <i>Claudio Joazeiro (Germany)</i></p> <p>MS16-3: Risk during Translation of Negatively Charged-Rich Amino Acid Sequences and their Counteraction Mechanisms <i>Hideki Taguchi (Japan)</i></p> <p>MS16-4: C-Degron Pathways Guard the Fidelity of Proteome <i>Hsueh-Chi Yen (Taiwan)</i></p> <p><i>Short Talk*2</i> (10 mins each) MS16-5: Structural Polymorphism of Alpha-synuclein Amyloid Fibrils Implicated in Parkinson's Disease <i>Kuen-Phon Wu (Taiwan)</i></p> <p>MS16-6: Cochaperone Deficiency in Aging and Neurodegenerative Diseases <i>Shu-Chun Teng (Taiwan)</i></p>
14:40 - 15:00	Break			
15:00 - 16:00	Closing Ceremony Venue: International Conference Hall, 3F			
16:00 - 17:40	Adjourn / Panel Discussion			