

Program

Time: October 25-27, 2019

Venue: Holiday Inn Singapore Atrium, Singapore

Registration
<i>Time: 09:00-21:00, October 24, 2019 (Thursday); Place: Hotel Lobby, 1st Floor, Holiday Inn Singapore Atrium</i>

Opening Ceremony and Keynote Forum

Opening Ceremony
<i>Time: 09:00-09:10, October 25, 2019 (Friday); Place: Atrium Ballroom, 4th Floor, Holiday Inn Singapore Atrium</i>

Keynote Forum
<i>Time: 09:15-11:50, October 25, 2019 (Friday); Place: Atrium Ballroom, 4th Floor, Holiday Inn Singapore Atrium</i>

Moderator	Dr. Andrew Potter , Professor & Associate Vice President Research, University of Saskatchewan, Canada
09:15-09:20	Chair's Introduction
09:20-09:50	Title: <i>Exploring Biodata Behind Big, Open Data for WHealth</i> Dr. Hwa A. Lim , CEO, D'Trends, Inc., USA
09:50-10:20	Title: <i>Plasma Gasification of Waste: A Case Study on Large and Small- scale Solutions</i> Mr. Richard J. Fish , President and CEO, Alter NRG Corp., USA
10:20-10:50	Title: <i>Approaches to the Rapid Development of Vaccines for Human and Animal Infectious Disease</i> Dr. Andrew Potter , Professor & Associate Vice President Research, University of Saskatchewan, Canada
10:50-11:20	Title: <i>Strain Development for Food Microbiology</i> Dr. Patrick M.F. Derkx , Vice President R & D, Chr. Hansen A/S, Denmark
11:20-11:50	Title: <i>Can We Change the Coiling Direction of Snails What Determines It</i> Dr. Reiko Kuroda , Professor, Chubu University, Japan

Theme 1: Breaking Research in Molecular & Cell Biology

Theme 101: DNA Methylation, Chromatin and Epigenetics
<i>Time: 13:30-14:35, October 25, 2019 (Friday); Place: Seletar Room 1, 3rd Floor, Holiday Inn Singapore Atrium</i>

Chair	Dr. Jayasri Nanduri , Professor, The University of Chicago, USA
13:30-13:35	Chair's Introduction
13:35-13:55	Title: <i>Unraveling Mitotic Chromosome Architecture</i> Dr. Maia Azubel , Stanford Medical School, USA
13:55-14:15	Title: <i>Electromagnetic Field and Restricted Diet as a Potent Modulators in Female Reproduction – The Alterations at the Molecular Level</i> Dr. Anita Franczak , Professor, University of Warmia and Mazury in Olsztyn, Poland
14:15-14:35	Title: <i>Epigenetic Regulation of Redox State in the Pathophysiology of Sleep Apnea</i> Dr. Jayasri Nanduri , Professor, The University of Chicago, USA

Theme 102: Protein Structure and Function
<i>Time: 09:00-12:00, October 26, 2019 (Saturday); Place: Seletar Room 1, 3rd Floor, Holiday Inn Singapore Atrium</i>

Chair	Dr. Luigi Puglielli , Professor, University of Wisconsin-Madison, USA
09:00-09:05	Chair's Introduction
09:05-09:25	Title: <i>How Bacterial Proteins Accommodate and Exploit Lipids in Catalysis, Transcription and Virulence</i> Dr. Stephen W. White , President and Dean, Graduate School of Biomedical Sciences; Full and Endowed

	Member, Department of Structural Biology, St. Jude Children's Research Hospital, USA
09:25-09:45	Title: <i>Possible Sources and Functions of L-homoarginine in the Brain</i> Dr. Hans-Gert Bernstein , Associate Professor, University of Magdeburg, Germany
09:45-10:05	Title: <i>Endoplasmic Reticulum Acetylation and Proteostasis</i> Dr. Luigi Puglielli , Professor, University of Wisconsin-Madison, USA
10:05-10:20	Coffee Break
10:20-10:40	Title: <i>A New Insight Into Corepressor Interaction From Novel Ternary Complex of Human RORγ</i> Mr. Keishi Yamaguchi , Research Scientist, JT Central Pharmaceutical Research Institute, Japan
10:40-11:00	Title: <i>Protein Binders for Insoluble Fibrin Detection and Thrombus Visualization</i> Dr. Petr Maly , Head of Research Group, Institute of Biotechnology of the Czech Academy of Sciences, BIOCEV Research Center, Czech Republic
11:00-11:20	Title: <i>Sertoli Cell-specific Coxsackievirus and Adenovirus Receptor Knockout Regulates Cell Adhesion and Gene Transcription via β-catenin Inactivation and Cdc42 Activation</i> Dr. Wing-Yee Lui , Associate Professor, School of Biological Sciences, The University of Hong Kong, Hong Kong, China
11:20-11:40	Title: <i>Applications of valuable Chinese Medicine Edible Bird'S Nest (EBN) in Cosmetics</i> Dr. Gallant KL CHAN , Research Associate/Research Assistant Professor, The Hong Kong University of Science and Technology and HKUST Shenzhen Research Institute, Hong Kong, China
11:40-12:00	Title: <i>Compartmentalization of Bacterial mRNA Decay</i> Dr. Harald Putzer , Director of Research CNRS, Universit éde Paris, France

Theme 103: Signal Transduction and Cell Death	
<i>Time: 09:00-11:05, October 26, 2019 (Saturday) ; Place: Seletar Room 2, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. Mark A. Sheridan , Professor, Texas Tech University, USA
09:00-09:05	Chair's Introduction
09:05-09:25	Title: <i>Environmental Contaminants Disrupt Cell Signaling Processes Associated with Animal Growth</i> Dr. Mark A. Sheridan , Professor, Texas Tech University, USA
09:25-09:45	Title: <i>Systems Approaches to Study Nuclear Interpretation of BMP Signaling in Stem/Progenitor Cells</i> Dr. Danny Huylebroeck , Professor, Erasmus University Medical Center Rotterdam, The Netherlands
09:45-10:05	Title: <i>Distinct RanBP1 Nuclear Export and Cargo Dissociation Mechanisms Between Fungi and Animals</i> Dr. Qingxiang Sun , Associate Researcher, Sichuan University, China
10:05-10:25	Title: <i>Atherogenic 7-oxysterols and Molecular Targets of Atherosclerosis in Our Research Work Since 2000</i> Dr. Xi-Ming Yuan , Associate Professor, Link öping University, Sweden
10:25-10:45	Title: <i>Synthesis and Biological Profiling of Novel Carbocyclic C-nucleosides</i> Dr. Kamil Paruch , Associate Professor, Masaryk University, Czech Republic
10:45-11:05	Title: <i>Gravity Sensing by Cells and Effects of Simultaneous Exposure of Cells to Microgravity and Irradiation on Chromosomes</i> Dr. Keigi Fujiwara , Professor, University of Texas MD Anderson Cancer Center, USA

Theme 104: Physiology and Molecular Biology of Plants	
<i>Time: 13:30-14:55, October 26, 2019 (Saturday) ; Place: Seletar Room 1, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. Samir A Ross , Professor, National Center for Natural Products Research, School of Pharmacy, University of Mississippi, USA
13:30-13:35	Chair's Introduction
13:35-13:55	Title: <i>Great Contribution of Molecular Approach to Plant Systematics: Some Case Studies in the family Campanulaceae</i> Dr. Qiang Wang , Associate Professor, Institute of Botany, The Chinese Academy of Sciences, China
13:55-14:15	Title: <i>Phytochemical and Biological Investigation of Nigerian Medicinal Plants</i> Dr. Samir A Ross , Professor, National Center for Natural Products Research, School of Pharmacy, University of Mississippi, USA
14:15-14:35	Title: <i>Hypo-magnetic Field Down-regulates Gene Expression during Seed Germination in Arabidopsis thaliana</i>

	Dr. Yi Lyu , Researcher Assistant Professor, Northwestern Polytechnical University, China
14:35-14:55	Title: <i>Expression of β-1,3-glucanase and Other PR Genes and Their Enzyme Activities in Tomato Induced with Bacillus Subtilis CBR05</i> Drs. Se Chul Chun , Professor, Konkuk University, South Korea

Theme 2: Stem Cells and Regenerative Medicine

Theme 201: Stem Cells and Regenerative Medicine	
<i>Time: 11:25-12:30, October 26, 2019 (Saturday) ; Place: Seletar Room 2, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. László Homolya , Senior Scientist, Institute of Enzymology, Research Center for Natural Sciences, Hungary
11:25-11:30	Chair's Introduction
11:30-11:50	Title: <i>Human Stem Cell Pluripotency in Vivo and Immune Tolerance</i> Dr. John S. Pixley , J.T. and Margaret Talkington Endowed Chair, Professor and Chief, Department of Internal Medicine and Pediatrics, Texas Tech University Health Science Center, USA
11:50-12:10	Title: <i>New Criterion System for the Evaluation of Human Stem Cell-derived Hepatic Cells: The Importance of Membrane Transporters and Cell Polarization</i> Dr. László Homolya , Senior Scientist, Institute of Enzymology, Research Center for Natural Sciences, Hungary
12:10-12:30	Title: <i>Self-Renewal of Stem Cells Cultured on the Soft Hydrogel Substrates of Amphycultural Diffusion Capsules</i> Dr. Bilko Nadiia , Professor, National University "Kyiv-Mohyla Academy", Ukraine

Theme 3: Disruptive Technology for Molecular & Cell Biology

Theme 301: Disruptive Technology for Molecular & Cell Biology	
<i>Time: 09:00-11:20, October 26, 2019 (Saturday) ; Place: Seletar Room 3, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. Toshifumi Tsukahara , Professor, Japan Advanced Institute of Science and Technology, Japan
Co-Chair	Dr. Jaishree Paul , Professor, Jawaharlal Nehru University, India
09:00-09:05	Chair's Introduction
09:05-09:25	Title: <i>Application of Microarray in the Prediction of Disease Severity Using microRNA Expression Profiling</i> Dr. Jaishree Paul , Professor, Jawaharlal Nehru University, India
09:25-09:45	Title: <i>Genetic Code Restoration by Using Artificial RNA Editing for G-to-A mutated mRNAs.</i> Dr. Toshifumi Tsukahara , Professor, Japan Advanced Institute of Science and Technology, Japan
09:45-10:05	Title: <i>Artificial RNA Editing in (BFP) Blue Fluorescence Protein (Derivative of GFP) by Using AID Deaminase for Restoration of Genetic Code</i> Ms. Sonali Bhakta , Japan Advanced Institute of Science and Technology (JAIST), Japan
10:05-10:20	Coffee Break
10:20-10:40	Title: <i>Highly Sensitive Diagnosis of Influenza by Digital Assay</i> Dr. Kazuhito Tabata , Associate Professor, The University of Tokyo, Japan
10:40-11:00	Title: <i>Enzymatic Sensor for Early Diagnosis of Inflammatory Diseases</i> Dr. Ivan Kochish , Chief Researcher, World's Poultry Science Association, Russian Branch, Russian National Research Medical University, Russia
11:00-11:20	Title: <i>Enzymatic Sensor Detects Some Forms of Nitric Oxide Donors Undetectable by Other Methods in Living Tissues</i> Dr. Vladimir Titov , Chief Researcher, World's Poultry Science Association, Russian Branch, Russian National Research Medical University, Russia

Theme 4: Molecular & Cell Biology in Drug R & D and Medicine

Theme 401: New Diseases Mechanism Research	
<i>Time: 15:35-18:00, October 25, 2019 (Friday) ; Place: Seletar Room 1, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. Hana Zelenková , Private Clinic of Dermatovenereology – DOST Svidn k, Slovakia

Co-chair	Dr. Nanduri R. Prabhakar , Professor, The University of Chicago, USA
15:35-15:40	Chair's Introduction
15:40-16:00	Title: <i>Integrin linked Kinase in Kidney Diseases: A Friend or a Foe</i> Dr. Guoping Zheng , Senior Research Fellow, University of Sydney, Australia
16:00-16:20	Title: <i>Network Pharmacology-Guided Development of a Novel Integrative Regimen to Prevent Acute Graft-vs.-Host Disease</i> Dr. Yuxin Feng , Professor, Tianjin University of Traditional Chinese Medicine, China
16:20-16:40	Title: <i>Therapeutic Targeting of Carotid Body for Treating Sleep Apnea</i> Dr. Nanduri R. Prabhakar , Professor, The University of Chicago, USA
16:40-17:00	Title: <i>Therapy with Immune Modulators (cyclosporine A) in Dermatology (Focusing on Psoriasis, Atopic Eczema, Allergic Vasculitis, And Chronic Urticaria)</i> Dr. Hana Zelenková , Private Clinic of Dermatovenereology – DOST Svidn k, Slovakia
17:00-17:20	Title: <i>Performance of First Trimester Biochemical Markers and Mean Arterial Pressure in Prediction of Early-onset Pre-eclampsia</i> Dr. Markku Ryyanen M , Professor, Obstetrics and Gynecology, Oulu University Hospital, Finland
17:20-17:40	Title: <i>Gonocyte Transformation into Spermatogonial Stem Cells (SSC): The key to Understand Infertility and Malignancy of Cryptorchidism</i> Dr. Ruili Li , Senior Research Fellow, Murdoch Children's Research Institute; University of Melbourne, Australia
17:40-18:00	Title: <i>Association of Pro-inflammatory Cytokines with QCT Measured Bone Mineral Density and its Gender Difference in Chinese Population</i> Dr. Yanping Gong , Associate Professor, The People's Liberation Army General Hospital, China

Theme 402: Cell Biology and Translational Medicine	
<i>Time: 09:00-11:05, October 26, 2019 (Saturday) ; Place: Sentosa Room, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. Warren Ladiges , Professor, University of Washington, USA
09:00-09:05	Chair's Introduction
09:05-09:25	Title: <i>Cellular Mechanisms of Sleep-deprived Learning Impairment and Intervention Strategies</i> Dr. Warren Ladiges , Professor, University of Washington, USA
09:25-09:45	Title: <i>The Role of ABCA1/ApoE/HDL Signaling Pathway in Stroke Restoration</i> Dr. Xu Cui , Assistant Scientist, Henry Ford Health System, USA
09:45-10:05	Title: <i>Management of Cardiopulmonary Bypass-associated Coagulopathy in Pediatric Cardiac Surgery</i> Dr. Rania K. Abbasi , Assistant Professor, Riley Hospital for Children at Indiana University Health Indianapolis, USA
10:05-10:25	Title: <i>Industry's Giant Leap Into Cellular Therapy: Catalyzing Chimeric Antigen Receptor T Cell (CAR-T) Immunotherapy</i> Dr. Stacie Ittershagen , Senior Director Scientific Alliances US Academic Medical Centers, Novartis, USA
10:25-10:45	Title: <i>Sleep Epileptology—A New Field of Sleep Medicine and Epileptology</i> Dr. Shigeru Chiba , Professor, Asahikawa Med University, Japan
10:45-11:05	Title: <i>Long Noncoding RNA MALAT1 Acts as a Competing Endogenous RNA to Regulate Amadori-glycated Albumin-induced MCP-1 Expression in Retinal Microglia by a microRNA-124-dependent Mechanism</i> Dr. Ning Dong , Professor, Capital Medical University, China

Theme 403: Drug Targets, Biomarkers and Diseases Diagnosis	
<i>Time: 11:05-12:50, October 26, 2019 (Saturday) ; Place: Sentosa Room, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. Esther Rabizadeh , Director, Tel-Aviv University, Israel
11:05-11:10	Chair's Introduction
11:10-11:30	Title: <i>A Universal Artificial Intelligence Platform for Biomarker Discovery</i> Dr. Alexandru G. Floares , President, Solution of Artificial Intelligence Applications & Artificial Intelligence Expert, Romania
11:30-11:50	Title: <i>Intranasal Immunization with Antigens Adjuvanted by Saponins Extracted from Pharmacopoeia</i>

	<i>Plants</i> Dr. Vasily Evseenko , Research Scientist, State Research Center of Virology & Biotechnology "Vector" Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing, Russia
11:50-12:10	Title: <i>Clinical and Genetic Significance of Gene Polymorphisms in Patients with CHD and Chronical Heart Failure</i> Dr. A.Khokhlov , Professor, Yaroslavl Medical State University, Russia
12:10-12:30	Title: <i>Fibrinogen-like Protein 2 (FGL2), A Liquid Biomarker for Monitoring & Follow up of Aggressive Lymphoma</i> Dr. Esther Rabizadeh , Director, Tel Aviv University and Rabin Medical Center, Israel
12:30-12:50	Title: <i>High Efficiency and Precision Monoclonal Antibody Production Method for Tetramine</i> Dr. Ling Yang , College of Veterinary Medicine China Agriculture University, China

Theme 404: Cancer Molecular & Cell Biology	
<i>Time: 13:30-16:10, October 26, 2019 (Saturday) ; Place: Seletar Room 2, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. Zou Bin , Co-Founder and CEO, Shanghai Blueray Biopharma, Co. Ltd., China
13:30-13:35	Chair's Introduction
13:35-13:55	Title: <i>Discovery of EED Inhibitor BR554: Preclinical Candidate as Anti-Cancer Therapy</i> Dr. Zou Bin , Co-Founder and CEO, Shanghai Blueray Biopharma, Co. Ltd., China
13:55-14:15	Title: <i>LncRNA-IDH1-AS1 Links the Functions of c-Myc and HIF1α to Regulate the Warburg Effect</i> Dr. Mian Wu , Professor, Henan Provincial People's Hospital, China
14:15-14:35	Title: <i>Alternative Splicing in Epithelial-Mesenchymal Transitions</i> Dr. Sebastian Oltean , Senior Lecturer, Institute for Biomedical & Clinical Research, University of Exeter Medical School, Exeter, UK
14:35-14:55	Title: <i>Molecular Genetic Definition of FGFR1-driven Leukemogenesis</i> Dr. John K Cowell , Associate Center Director, Georgia Cancer Center, Augusta University, USA
14:55-15:15	Title: <i>Anchorage of a GTP-bound Oncogenic K-Ras Protein at a Zwitterionic Cell Membrane</i> Dr. Jordi Mart í Assistant Professor, Technical University of Catalonia-Barcelona Tech, Spain
15:15-15:30	Coffee Break
15:30-15:50	Title: <i>Selinexor Reduces the Expression of DNA Damage Repair Proteins and Sensitizes Cancer Cells to DNA Damaging Agents</i> Mr. Trinayan Kashyap , Senior Scientist, Karyopharm Therapeutics, USA
15:50-16:10	Title: <i>LncRNA NOC2L - 4.1functions as a Tumor Oncogene in Cervical Cancer Progression by Regulating the miR - 630/YAPI Pathway</i> Dr. Yuanyuan Lyu , The First Affiliated Hospital of Wannan Medical College, China

Theme 405: Cellular Neurobiology and Neurodegeneration	
<i>Time: 15:30-17:35, October 26, 2019 (Saturday) ; Place: Seletar Room 1, 3rd Floor, Holiday Inn Singapore Atrium</i>	
Chair	Dr. Li Zhang , Professor, University of Texas at Dallas, USA
15:30-15:35	Chair's Introduction
15:35-15:55	Title: <i>Understanding Altered Heme Metabolism and Function in Alzheimer's disease</i> Dr. Li Zhang , Professor, University of Texas at Dallas, USA
15:55-16:15	Title: <i>Glucocorticoid and Mineralocorticoid Receptors as Mediators of Neurodegeneration/Neuroprotection – The Role of Electromagnetic Field</i> Dr. Justyna Rogalska , Associate Professor, Nicolaus Copernicus University, Poland
16:15-16:35	Title: <i>Trio Haploinsufficiency Causes Neurodevelopmental Disease-Associated Deficits</i> Dr. Xiao Xiao , Associate Professor, Fudan University, China
16:35-16:55	Title: <i>Transcriptional Dysregulation in Neurodegenerative Diseases: Who Tipped the Balance of Yin Yang 1 in the Brain</i> Dr. Zhefan Stephen Chen , Postdoctoral Research Fellow, University of Oxford, UK
16:55-17:15	Title: <i>The Role of Cholinergic Nicotine Receptors in the Pathogenesis of Alzheimer's Disease</i> Dr. Zhi-Zhong Guan , Professor, Guizhou Medical University, China
17:15-17:35	Title: <i>Retinoic Acid Recapitulates the Action of the Somites on Neural Differentiation of the Developing</i>

Caudal Neural Plate in Chick Embryo

Dr. Mohsen Sagha, Associate Professor, Ardabil University of Medical Sciences (ARUMS), Iran

Theme 406: Hematology

Time: 09:00-10:25, October 27, 2019 (Sunday) ; Place: Seletar Room 1, 3rd Floor, Holiday Inn Singapore Atrium

Chair **Dr. Rahima Zennadi**, Associate Professor, Duke University Medical Center, USA

09:00-09:05 **Chair's Introduction**

09:05-09:25 **Title:** *Chronic Benign Neutropenia: Ethnicity, Prevalence and Importance*
Dr. Srdjan Denic, Professor of Medicine, United Arab Emirates, UAE

09:25-09:45 **Title:** *The Role of Red Blood Cell Reactive Oxygen Species and their Vicious Cycle in Sickle Cell Vasculopathy*
Dr. Rahima Zennadi, Associate Professor, Duke University Medical Center, USA

09:45-10:05 **Title:** *Sirt1-Sirt3 axis Regulates Human Blood-brain Barrier Permeability in Response to Ischemia*
Dr. Tao Chen, Associate Professor, The 101th Hospital of PLA, China

10:05-10:25 **Title:** *Characterization of Single Amino Acid Substitutions in the β 2 Integrin Subunit of Patients with Leukocyte Adhesion Deficiency (LAD)-1*
Dr. S.K. Alex Law, Former Professor, School of Biological Sciences, Nanyang Technological University, Singapore