

May 14 (Saturday)

Keynote Speech [A]

B1 International Lecture Hall

Keynote Speech [A]

Moderator: Wen-Hwa Lee 李文華 (Taiwan) / Paul R. Sanberg (U.S.A.)

08:50-09:30 KS1-1 Nano Control of Cellular Communication and Environments to Modulate Growth Rates of Pathogens, Stem Cells and the Mitigation of Highly Metastatic Carcinomas
Rutledge Ellis-Behnke (Germany)

09:30-10:10 KS1-2 Generation of Functional Human Organ from Pluripotent Stem Cell
Hideki Taniguchi (Japan)

A1

B1 International Lecture Hall

Stem Cell Epigenetic and Reprogramming

Moderator: Rutledge Ellis-Behnke (Germany)

10:30-11:00 A1-1 Pharmacologic Manipulation of Stem Cells and Cancer Stem Cells
Michael Kahn (U.S.A.)

11:00-11:30 A1-2 Neuroprotective Effects of the Conditioned Medium of Murine and Human Adipose-Derived Stem Cells on Experimental Stroke Models
Hideaki Hara (Japan)

11:30-12:00 A1-3 Regeneration of Infarcted Myocardium Using Activated Adult Stem Cells
Dong-Qing Cai 蔡冬青 (China)

A2

4F Meeting Room East

Stem Cells-Tools to Battle Cancer

Moderator: Esther H. Chang (U.S.A.)

10:30-11:00 A2-1 Targeting Immunomodulatory Mechanisms of Human Mesenchymal Stem Cells: Possible Relevance for Cancer Immunotherapy
B. Lin-Ju Yen 顏伶汝 (Taiwan)

11:00-11:30 A2-2 Cerebreca Wafer Targeting Telomerase and Restore TMZ Sensitivity for Brain Tumor-IND Submission to FDA Challenge and Conquer
Hong-Jyh Harn 韓鴻志 (Taiwan)

11:30-12:00 A2-3 Chemoinensitive Atypical Teratoid/Rhabdoid Tumor Cells Enhanced Cisplatin-Induced Motility and Cancer Stem-Like Property through STAT3/Snail Axis
Hsin-I Ma 馬辛一 (Taiwan)

May 14 (Saturday)

Luncheon Seminar

1F Windsor Square Lobby

StemCyte Taiwan Co., Ltd. 台灣永生細胞股份有限公司

12:00-13:00 L1 Regenerative Medicine and Advanced Therapy-A New Era in Human Health to Resolve Unmet Medical Need
Jonas CT, Wang 王嘉宗 (U.S.A.)

B1

B1 International Lecture Hall

Clinical Trials and Regulatory Affairs

Moderator: Hideki Taniguchi (Japan)

13:00-13:30 B1-1 Mesenchymal Stem Cell Therapy in Neonatal Intractable Disease: Bench to Bedside Translation
Yun Sil Chang (Korea)

13:30-14:00 B1-2 Recent Cord Blood Research and Patents for Neurological Disorders
Paul R. Sanberg (U.S.A.)

14:00-14:30 B1-3 Stem Cell Transplants, Calcim[®] and PRP in The Veterinary Patient
Jean Paul Ly (Singapore)

B2

4F Meeting Room East

Targeting Mitochondria: Recent Clinical & Potential Therapeutic Studies

Moderator: Koji Abe (Japan)

13:00-13:30 B2-1 iPSC-Based Phenotypic Drug Discovery of Neurological Mitochondrial Disorders
Alessandro Prigione (Germany)

13:30-14:00 B2-2 Unique Mitochondrial Metabolism in Muse Cells
Mari Dezawa (Japan)

14:00-14:30 B2-3 Delivering Isolated Mitochondria Mitigates Inflammatory Stress in Damaged Lung and Brain
Hong-Lin Su 蘇鴻麟 (Taiwan)

May 14 (Saturday)

C1

B1 International Lecture Hall

Bone, Cartilage and Soft Tissue Engineering

Moderator: Shih-Chieh Hung 洪士杰 (Taiwan)

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| 14:50-15:20 | C1-1 | Minimally Invasive Cell Therapy for Enhanced Repair of Rotator Cuff Injuries
<i>Shao-Chih Chiu 邱紹智 (Taiwan)</i> |
| 15:20-15:50 | C1-2 | Application of Mesenchymal Stem Cells for Osteoarthritis Treatment
<i>Shih-Chieh Hung 洪士杰 (Taiwan)</i> |
| 15:50-16:20 | C1-3 | Mesenchymal Stem Cell Based Cartilage Tissue Engineering
<i>Barbara Chan (Hong Kong)</i> |

C2

4F Meeting Room East

Targeting Mitochondria: Recent Clinical & Potential Therapeutic Studies

Moderator: Hong-Lin Su 蘇鴻麟 (Taiwan)

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| 14:50-15:20 | C2-1 | Mechanism of ALS and the Clinical Neuroprotection in Japan
<i>Koji Abe (Japan)</i> |
| 15:20-15:50 | C2-2 | Effect of H ₂ S on Migration of iPS to Ischemic Myocardium: A Novel Approach
<i>Yi Zhun Zhu 朱依淳 (China)</i> |
| 15:50-16:20 | C2-3 | Allogeneic/Xenogeneic Transplantation of Peptide-Labeled Mitochondria in Parkinson's Disease: Restoration of Mitochondria Functions and Attenuation of 6-Hydroxydopamine-Induced Neurotoxicity
<i>Chin-San Liu 劉青山 (Taiwan)</i> |

Panel Discussion

B1 International Lecture Hall

Cell Therapies Regulatory in Asia

Moderator: Shinn-Zong Lin 林欣榮 (Taiwan)

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|-------------|------|---|
| 16:20-16:50 | PD-1 | Cellular Therapy in Asia
<i>Akihiro Shimosaka (Japan)</i> |
| 16:50-17:20 | PD-2 | Cell Therapies Regulatory in Taiwan
<i>Ming-Kung Yeh 葉明功 (Taiwan)</i> |
| 17:20-18:00 | | Discussion
<i>Akihiro Shimosaka (Japan)</i>
<i>Ming-Kung Yeh 葉明功 (Taiwan)</i>
<i>Oscar Kuang-Sheng Lee 李光申 (Taiwan)</i>
<i>Paul R. Sanberg (U.S.A.)</i> |

May 15 (Sunday)

Keynote Speech [B]

B1 International Lecture Hall

Keynote Speech [B]

Moderator: Kwok Fai So 蘇國輝 (Hong Kong) / Mari Dezawa (Japan)

- 09:00-09:40 KS2-1 3D Genome Architecture in Transcription and Pluripotency
Bing Ren 任兵 (U.S.A.)
- 09:40-10:20 KS2-2 In Vivo Reprogramming: Reversing Glial Scar for Brain Repair
Gong Chen 陳功 (U.S.A.)

D1

B1 International Lecture Hall

Stem Cell Epigenetic and Reprogramming

Moderator: Cesar V. Borlongan (U.S.A.)

- 10:40-11:10 D1-1 Nanotechnology Approaches for Stem Cell Reprogramming
KiBum Lee (U.S.A.)
- 11:10-11:40 D1-2 From Pericytes to Mesenchymal Stem Cells: An in Vivo Reprogramming?
Bruno Péault (U.S.A.)
- 11:40-12:10 D1-3 Control of Teratoma Development after Embryonic Stem Cell Transplantation
Yi Ren (U.S.A.)

D2

4F Meeting Room East

Targeting Mitochondria: Recent Clinical & Potential Therapeutic Studies

Moderator: Shan Ping Yu (U.S.A.)

- 10:40-11:10 D2-1 iPS Cells Modeling Autism and Identifying New Drug Target
Gong Chen 陳功 (U.S.A.)
- 11:10-11:40 D2-2 Intranasal Poststroke Treatment with 9-Cis Retinoic Acid Improved Locomotor Behavior in Stroke Rats
Yun Wang 王昀 (Taiwan)
- 11:40-12:10 D2-3 Mitochondrial Role in the Differentiation of Human Mesenchymal Stem Cells and in the Formation of Induced Pluripotent Stem Cells
Yau-Huei Wei 魏耀揮 (Taiwan)

Luncheon Seminar

1F Windsor Square Lobby

Gwo Xi Stem Cell Applied Technology Co., Ltd. 國璽幹細胞應用技術股份有限公司

- 12:10-13:10 L2 Commercial Production of Autologous Stem Cells and Therapeutic Potential for Liver Cirrhosis
Po-Cheng Lin 林珀丞 (Taiwan)

May 15 (Sunday)

E1

B1 International Lecture Hall

Stem Cell Epigenetic and Reprogramming

Moderator: Tzyy-Wen Chiou 邱紫文 (Taiwan)

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|-------------|------|--|
| 13:10-13:40 | E1-1 | Mesenchymal Stem Cells to Generate Bone in Children with Osteogenesis Imperfecta
<i>Edwin Horwitz (U.S.A.)</i> |
| 13:40-14:10 | E1-2 | Direct Comparison of DNA Versus mRNA on the Efficiency of iPSC Generation from Human Primary Fibroblasts
<i>Sandra A. Telpalo Carpio (Mexico)</i> |
| 14:10-14:40 | E1-3 | Electrospun Polyacrylonitrile-Based Nanofibers Maintain Embryonic Stem Cell Stemness via TGF-Beta Signaling
<i>Shih-Ping Liu 劉詩平 (Taiwan)</i> |

E2

4F Meeting Room East

3D Printing and Other Medical Device in Clinical Applications

Moderator: Yun Wang 王昀 (Taiwan)

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|-------------|------|---|
| 13:10-13:40 | E2-1 | The Construction and Application of Stem Cell-Based Tissue Engineering Nerve
<i>Xiaosong Gu 顧曉松 (China)</i> |
| 13:40-14:10 | E2-2 | Preclinical Studies of FUS-Induced BBB Opening for Brain Tumor Treatment
<i>Kuo-Chen Wei 魏國珍 (Taiwan)</i> |
| 14:10-14:40 | E2-3 | Development of Novel Brain Stimulation Device for Treatment of Neurological Disorders: From Bench to Bedside
<i>Jia-Jin J. Chen 陳家進 (Taiwan)</i> |

F1

B1 International Lecture Hall

Stem Cell Epigenetic and Reprogramming

Moderator: Gong Chen 陳功 (U.S.A.)

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|-------------|------|---|
| 15:00-15:30 | F1-1 | Inflammatory IL2-Targeted Bone Marrow Stem Cell-Derived Exosomes, But Not Neural NCAM-Directed Exosomes, Hone to the Spleen, Dampen Inflammation, and Ameliorate Stroke-Induced Functional Deficits
<i>Cesar V. Borlongan (U.S.A.)</i> |
| 15:30-16:00 | F1-2 | Motor Training Reduces Psychomotor Retardation via Gliogenesis in Rats with Depression-Like Behaviour
<i>Kwok Fai So 蘇國輝 (Hong Kong)</i> |
| 16:00-16:30 | F1-3 | Optogenetic Stimulation Promotes Beneficial Effects of Stem Cell Transplantation After Ischemic Stroke
<i>Ling Wei (U.S.A.)</i> |

May 15 (Sunday)

Oral Presentation

4F Meeting Room East

Oral Presentation

Moderator: Shao-Chih Chiu 邱紹智 (Taiwan) / Barbara Chan (Hong Kong)

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|-------------|----|---|
| 15:00-15:15 | O1 | Drug Dosage and Diagnosis: Boundary, Cycles, and Control
<i>Hsiehchia Hsieh 謝世佳 (Taiwan)</i> |
| 15:15-15:30 | O2 | Extracellular Matrix Facilitates the Construction of Microenvironment for Peripheral Nerve Regeneration
<i>Sheng Yi 易晟 (China)</i> |
| 15:30-15:45 | O3 | Initiate a First-in-Human Trial of GXHPC1 on Liver Cirrhosis Patients
<i>Ko-Chang Huang 黃克章 (Taiwan)</i> |
| 15:45-16:00 | O4 | miRNA in Cellular Therapies: Role in Cord Blood and Peripheral Blood Derived Megakaryocytes
<i>Ravi Kumar Gutti (India)</i> |
| 16:00-16:15 | O5 | MIR-340 Regulates The Fibrinolysis and Axon Regrowth Following Sciatic Nerve Injury
<i>Shiyong Li 李石營 (China)</i> |
| 16:15-16:30 | O6 | Cord Blood Banks in Asia: Global Biopolitics and Inequalities in the International Umbilical Cord Blood Circulation
<i>Hung-Chieh Chang 張弘潔 (Taiwan)</i> |

G1

B1 International Lecture Hall

Stem Cells-Tools to Battle Cancer

Moderator: Horng-Jyh Harn 韓鴻志 (Taiwan)

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|-------------|------|---|
| 16:30-17:00 | G1-1 | MSCs for the Treatment of Severe Acute GVHD and Cancer
<i>Keiya Ozawa (Japan)</i> |
| 17:00-17:30 | G1-2 | Targeting and Eliminating Cancer Stem Cells is Critical to an Effective Brain Cancer Nanomedicine
<i>Esther H. Chang (U.S.A.)</i> |
| 17:30-18:00 | G1-3 | Regional Infusion of Antigen-Specific T Cells for Treating EBV(+) Nasopharyngeal Carcinoma - A Phase I/II Clinical Trial
<i>Chen-Lung Lin 林成龍 (Taiwan)</i> |

May 15 (Sunday)

G2

4F Meeting Room East

Stem Cell Epigenetic and Reprogramming

Moderator: Xiaosong Gu 顧曉松 (China)

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|-------------|------|--|
| 16:30-17:00 | G2-1 | Generation of 3-Dimensional Cardiac Tissue with Human iPS Cells and Tissue Engineering
<i>Hidetoshi Masumoto (Japan)</i> |
| 17:00-17:30 | G2-2 | The Immunomodulation of Mesenchymal Stem Cells Derived from Induced Pluripotent Stem Cells
<i>Qing-Ling Fu 付清玲 (China)</i> |
| 17:30-18:00 | G2-3 | Long-Term Survival and Regeneration of Neuronal and Vasculature Cells Inside the Core Region after Ischemic Stroke in Adult Mice
<i>Shan Ping Yu (U.S.A.)</i> |