

Keynote Speech [A]

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Moderator: Shinn-Zong Lin 林欣榮 (Taiwan)

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|-------------|-------|---|
| 08:50-09:30 | KS1-1 | Optochemogenetics Treatment in iPSC Therapy Promotes Brain Repair after Stroke
<i>Shan Ping Yu (U.S.A.)</i> |
| 09:30-10:10 | KS1-2 | Targeting APP Gene Expression to Prevent Alzheimer's Specific Amyloidosis in Down Syndrome as a Model to Improve General Cognitive Impairment
<i>Jack T. Rogers (U.S.A.)</i> |

A1

Alzheimer's Disease (AD) and Amyotrophic Lateral Sclerosis (ALS): Apply Pluripotent Stem Cells for Disease Modeling and Drug Discovery

Moderator: Bing Su 蘇冰 (China)

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|-------------|------|--|
| 10:30-11:00 | A1-1 | Mechanism and Therapy of Granulocyte Colony Stimulating Factor (GCSF) and GCSF Gene in Alzheimer's Disease and Other Brain Diseases
<i>Jang-Yen Wu 吳政彥 (U.S.A.)</i> |
| 11:00-11:30 | A1-2 | Mechanism of ALS and the Clinical Neuroprotection in Japan
<i>Koji Abe (Japan)</i> |
| 11:30-12:00 | A1-3 | A Translational Study on Looming-Evoked Defensive Response and the Underlying Subcortical Pathway in Autism
<i>Kwok-Fai So 蘇國輝 (Hong Kong)</i> |

B1

Gene Editing and Amyotrophic Lateral Sclerosis (ALS): Apply Pluripotent Stem Cells for Disease Modeling and Drug Discovery

Moderator: Koji Abe (Japan)

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| 13:00-13:30 | B1-1 | Reduced the Secreted Protein from NogoA-Overexpressed Muscle Cells Inhibits Neurite Outgrowth of Motor Neurons
<i>Huai-Jen Tsai 蔡懷楨 (Taiwan)</i> |
| 13:30-14:00 | B1-2 | Cross Talk between the MAPK and WNT Signals in Intestine Stem Cell Niche
<i>Bing Su 蘇冰 (China)</i> |
| 14:00-14:30 | B1-3 | CRISPR/Cas9-Mediated Mitochondrial Genome Editing
<i>Steven Lin 凌嘉鴻 (Taiwan)</i> |

C1

Muse Cell and Translational Therapy

Moderator: William J. Freed (U.S.A.)

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|-------------|------|---|
| 14:50-15:20 | C1-1 | Unique Reparative Mechanism of Muse Cells: Specific Homing by S1P-S1P Receptor System
<i>Mari Dezawa (Japan)</i> |
| 15:20-15:50 | C1-2 | The Neuroprotective Effect of GPR37 on Regulating Multiple Cell Death and Inflammation Mechanisms after Ischemic Stroke in Mice
<i>Shan Ping Yu (U.S.A.)</i> |
| 15:50-16:20 | C1-3 | Interfollicular Epidermal Stem Cells in the Skin: How Can We Regulate?
<i>Kyoung Chan Park (Korea)</i> |

Panel Discussion

Translation of iPS Cells -CMC, Gene Editing and Clinical Trial

Moderator: Shinn-Zong Lin 林欣榮 (Taiwan)

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|-------------|-----------|---|
| 16:50-18:00 | Panelists | <i>Kwok-Fai So 蘇國輝 (Hong Kong), Jack T. Rogers (U.S.A.), Catherine Cahill (U.S.A.), Wise Young (U.S.A.)</i> |
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A2

Gut-Brain: The Modulation of Brain Plasticity in Parkinson's Disease (Brain Machine Interface / Nerve and Tissue Engineering)

Moderator: Su-Chun Zhang (Singapore)

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| 10:30-11:00 | A2-1 | Versatility of Cord Blood Based Therapy - Is it the Answer for Neurological Disease?
<i>Samantha M. Portis (U.S.A.)</i> |
| 11:00-11:30 | A2-2 | Effects of Diabetes Mellitus on Biomechanics of Peripheral Nerves from Organ to Cell Level
<i>Ming-Shaung Ju 朱銘祥 (Taiwan)</i> |
| 11:30-12:00 | A2-3 | Targeting Alpha Synuclein Translation in Parkinson's Disease with 5'UTR Directed Small Molecules
<i>Catherine Cahill (U.S.A.)</i> |

B2

Gene Editing and Translational Stem Cell Therapies

Moderator: Catherine Cahill (U.S.A.)

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|-------------|------|--|
| 13:00-13:30 | B2-1 | Reconstruction of Neural Circuit by Human Stem Cells
<i>Su-Chun Zhang (Singapore)</i> |
| 13:30-14:00 | B2-2 | Microfluidic Technique for Embryonic Stem Cell Culture
<i>Chia-Hsien Hsu 許佳賢 (Taiwan)</i> |
| 14:00-14:30 | B2-3 | Glyco-Engineering of IgG-Fc to Enhance the Biological Functions of Therapeutic Antibodies
<i>Chung-Yi Wu 吳宗益 (Taiwan)</i> |

C2

Translational Stem Cell Therapies

Moderator: Shih-Hwa Chiou 邱士華 (Taiwan)

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|-------------|------|---|
| 14:50-15:20 | C2-1 | Precise Gene Product Regulation: Hematopoietic Stem Cell to Mature Blood Cell
<i>Michael R. Loken (U.S.A.)</i> |
| 15:20-15:50 | C2-2 | Lithium Mechanisms in Stem Cell Therapies
<i>Wise Young (U.S.A.)</i> |
| 15:50-16:20 | C2-3 | Scaffold-Free Bio-3D Printing for Solid Organ Fabrication
<i>Koichi Nakayama (Japan)</i> |
| 16:20-16:50 | C2-4 | Expression and Biological Role of the Chromosome 19 MicroRNA Cluster (C19MC) in Stem Cell Pluripotency
<i>Phan Nguyen Nhi Nguyen (Vietnam)</i> |

Keynote Speech [B]

Keynote Speech [B]

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

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|-------------|-------|--|
| 09:00-09:40 | KS2-1 | Fighting Fat with Fat: Therapeutic Potential of Brown Adipose Tissue
<i>Yu-Hua Tseng 曾玉華 (U.S.A.)</i> |
| 09:40-10:20 | KS2-2 | Targeting the Transcriptional Addiction of Leukemia Stem Cells by a New Class of Protein Kinase Inhibitors
<i>Yinon Ben-Neriah (Israel)</i> |

D1

Translational Stem Cell Therapies

Moderator: Mari Dezawa (Japan)

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|-------------|------|--|
| 10:40-11:10 | D1-1 | Human Pluripotent Stem Cells, Parkinson's Disease, and Dopaminergic Transplantation: Controversies and Complications
<i>William J. Freed (U.S.A.)</i> |
| 11:10-11:40 | D1-2 | Muse Cell Treatment for Cerebral Ischemia
<i>Kuniyasu Niizuma (Japan)</i> |
| 11:40-12:10 | D1-3 | The p53 Mutome: Dealing with Mutational Complexity in Cancer Therapy
<i>Thorsten Stiewe (Germany)</i> |

Oral Presentation

Oral Presentation

Moderators: Steven Lin 凌嘉鴻 (Taiwan) / Michael R. Loken (U.S.A.)

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|-------------|----|---|
| 10:40-10:55 | O1 | Prediction of Stem Cells, Cancers, and Drugs
<i>Hsiehchia Hsieh 謝世佳 (Taiwan)</i> |
| 10:55-11:10 | O2 | GXHPC1 in Liver Cirrhosis Patients Through Intrahepatic Injection : A Phase I Clinical Trial
<i>Yi-Chun Lin 林怡均 (Taiwan)</i> |
| 11:10-11:25 | O3 | Gut-Brain Crosstalk: A Fundamental Mechanism for Modulating Alzheimer's Progression
<i>Jyh-Lyh (Jerry) Juang 莊志立 (Taiwan)</i> |
| 11:25-11:40 | O4 | Suppression of Glioblastoma Multiforme Stemness Genes and Potentiation of Temozolomide Sensitivity by Natural Products
<i>Gi-Ming Lai 賴基銘 (Taiwan)</i> |
| 11:40-11:55 | O5 | Direct Conversion of Human Skin Fibroblasts into Pre-Oligodendrocytes by Chemical Cocktails
<i>Pei-Lun Lai 賴培倫 (Taiwan)</i> |
| 11:55-12:10 | O6 | Using a MSA Transgenic Mouse Model to Study Therapeutic Effect of ADSC in Alleviating Neurodegeneration
<i>Hsin-Han Yang 楊昕翰 (Taiwan)</i> |

March 24 (Saturday)

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

12:00-13:00 L1 Gwo Xi Personalized Precision Medical Accelerates Stem Cell Applications
Po Cheng Lin 林珀丞 (Taiwan)

March 25 (Sunday)

StemCyte International, Ltd. 永生生技集團

12:10-13:10 L2 The Commercialization of StemCyte International Ltd. and Its Operational Challenge
Jonas C.T. Wang (Taiwan)