

Date	April 15, 2017 (Saturday)	
Location	Xie Li Auditorium	Hu Ai Conference Room
08:30–08:50	Opening Ceremony	
08:50–10:10	Keynote Speech [A]	
10:10–10:30	Coffee Break	
10:30–12:00	<b>Invited Speech [A1]</b> Pluripotent Stem Cells and Mesenchymal Stem Cell: Frontier Research	<b>Invited Speech [A2]</b> Cancer and New Drug Development
12:00–12:40	Luncheon Seminar (2F He Qi Conference Room)	
12:40–13:00	Poster Presentation	
13:00–14:30	<b>Invited Speech [B1]</b> Engineer T Cell Therapy: CAR-T Strategies in Cancer	<b>Invited Speech [B2]</b> Bioengineering and Biomaterial Application in Neuroscience
14:30–14:50	Coffee Break	
14:50–16:20	<b>Invited Speech [C1]</b> Cancer and New Drug Development	<b>Invited Speech [C2]</b> Gene Editing for iPS Cell of Disease
16:20–18:00	Panel Discussion	
18:30–20:30	Banquet	

Registration

Date	April 16, 2017 (Sunday)	
Location	Xie Li Auditorium	Hu Ai Conference Room
09:00–10:20	<b>Keynote Speech [B]</b>	
10:20–10:40	<b>Coffee Break</b>	
10:40–12:10	<b>Invited Speech [D1]</b> Cancer and New Drug Development	<b>Invited Speech [D2]</b> Bioengineering and Biomaterial Application in Neuroscience
12:10–13:10	<b>Luncheon Seminar</b> (2F He Qi Conference Room)	
13:10–14:40	<b>Invited Speech [E1]</b> Pluripotent Stem Cells and Mesenchymal Stem Cell: Frontier Research	<b>Invited Speech [E2]</b> Bioengineering and Biomaterial Application in Neuroscience
14:40–15:00	<b>Coffee Break</b>	
15:00–16:30	<b>Invited Speech [F1]</b> Pluripotent Stem Cells and Mesenchymal Stem Cell: Frontier Research	<b>Oral Presentation</b>
16:30–18:00	<b>Invited Speech [G1]</b> Cancer and New Drug Development	<b>Invited Speech [G2]</b> Cancer and New Drug Development
18:30–20:30	<b>Presidential Dinner</b> (Invited Only)	

## Keynote Speech [A]

### Keynote Speech [A]

**Moderator: Shinn-Zong Lin 林欣榮 (Taiwan)**

- |             |       |  |
|-------------|-------|--|
| 08:50-09:30 | KS1-1 | Stem Cells Migrate from the Brain to the Periphery via the Lymphatic System and Guided by Inflammation after CNS Injury<br><i>Cesar V. Borlogan (U.S.A.)</i> |
| 09:30-10:10 | KS1-2 | Game Changers: Using Cord Blood to Help the Brain<br><i>Joanne Kurtzberg (U.S.A.)</i>  |

## A1

### Pluripotent Stem Cells and Mesenchymal Stem Cell: Frontier Research

**Moderator: Joanne Kurtzberg (U.S.A.)**

- |             |      |  |
|-------------|------|--|
| 10:30-11:00 | A1-1 | Current Status and Development of Stem Cell Industry<br><i>Kwok-Fai So 蘇國輝 (Hong Kong)</i>   |
| 11:00-11:30 | A1-2 | Human Induced Pluripotent Stem Cells as Tools for New Drug Discovery of Amyotrophic Lateral Sclerosis (ALS)<br><i>Shih-Ming Weng 翁仕明 (Taiwan)</i>            |
| 11:30-12:00 | A1-3 | Application of Down Syndrome iPSC Derived Forebrain Neurons to Alzheimer's Disease in Vitro Modeling and Drug Screening<br><i>Chia-Yu Chang 張嘉佑 (Taiwan)</i> |

## B1

### Engineer T Cell Therapy: CAR-T Strategies in Cancer

**Moderator: Cesar V. Borlogan (U.S.A.)**

- |             |      |  |
|-------------|------|--|
| 13:00-13:30 | B1-1 | Stem Cells for Oral Tissue Regeneration<br><i>Min-Huey Chen 陳敏慧 (Taiwan)</i>   |
| 13:30-14:00 | B1-2 | Development of Clinical Live-Imaging of Anti-CD19 Chimeric Antigen Receptor T Cells to Predict Anti-Tumor Effect and Toxicity<br><i>Yen-Michael Sheng Hsu (U.S.A.)</i> |
| 14:00-14:30 | B1-3 | Therapeutic Benefits of Cord Blood Plasma/Serum in Neurodegeneration<br><i>Paul R. Sanberg (U.S.A.)</i>  |

## C1

### Cancer and New Drug Development

**Moderator: Akihiro Shimosaka (Japan)**

- |             |      |  |
|-------------|------|--|
| 14:50-15:20 | C1-1 | New Assembly Factor of Ribosome Biogenesis and Cancer Progression<br><i>John Yu 游正博 (Taiwan)</i> |
| 15:20-15:50 | C1-2 | Cancer Immunotherapy Targeting Glycans<br><i>Alice L. Yu 陳鈴津 (Taiwan)</i>                        |
| 15:50-16:20 | C1-3 | Superbug Biocontrol Using Bacteriophage<br><i>Li-Kuang Chen 陳立光 (Taiwan)</i>                     |

## Panel Discussion

### iPS Cells in Clinical Trials: Progress and Challenges

**Moderator: Shinn-Zong Lin 林欣榮 (Taiwan)**

- |             |           |  |
|-------------|-----------|--|
| 16:20-18:00 | Panelists | <i>Paul R. Sanberg (U.S.A.), Kwok-Fai So 蘇國輝 (Hong Kong), Joanne Kurtzberg (U.S.A.), Shih-Hwa Chiou 邱士華 (Taiwan)</i> |
|-------------|-----------|--|

## A2

### Cancer and New Drug Development

**Moderator: Yao Chan Chen 陳耀昌 (Taiwan)**

- 10:30-11:00 A2-1 Targeting Therapy of Malignant Brain Tumor by a Local Interstitial Delivery System Loading with a Novel Small Molecule IND for Phase I/IIA Approved by FDA (IND 128388)  
*Horng-Jyh Harn 韓鴻志 (Taiwan)*
- 11:00-11:30 A2-2 Development of New Anti-Cancer Strategies for Pancreatic Ductal Adenocarcinoma via Targeting Unique Metabolic Features of Cancer Stem Cells  
*Chia-Ning Shen 沈家寧 (Taiwan)*
- 11:30-12:00 A2-3 Progesterone Prevents High-Grade Serous Ovarian Cancer by Induction Necroptosis of P53-Defective Epithelium in Fallopian Tube  
*Tang-Yuan Chu 朱堂元 (Taiwan)*

## B2

### Bioengineering and Biomaterial Application in Neuroscience

**Moderator: Rong-Kung Tsai 蔡榮坤 (Taiwan)**

- 13:00-13:30 B2-1 Human Gene Therapy- A Translational Road to Today and Beyond  
*Guangping Gao 高光坪 (U.S.A.)*
- 13:30-14:00 B2-2 Granulocyte Colony Stimulating Factor (G-CSF) Therapy for Parkinson's Disease and Stroke  
*Jang-Yen Wu 吳政彥 (U.S.A.)*
- 14:00-14:30 B2-3 Use of Biomaterials and Neural Stem Cells for Repairing CNS and PNS Injuries  
*Wutain Wu 吳武田 (Hong Kong)*

## C2

### Gene Editing for iPS Cell of Disease

**Moderator: Avery Posey (U.S.A.)**

- 14:50-15:20 C2-1 Exploiting Pluripotency for a Greater Understanding of Human Diseases  
*Hung-Chih Kuo 郭紘志 (Taiwan)*
- 15:20-15:50 C2-2 Development of Human Stem Cell Cultures for Clinical Application  
*Glyn Stacey (U.K.)*
- 15:50-16:20 C2-3 Cancer Gene Somatic Mutagenesis by CRISPR/Cas9  
*You-Tzung (Bob) Chen 陳佑宗 (Taiwan)*

## Keynote Speech [B]

### Keynote Speech [B]

**Moderator: Tzyy-Wen Chiou 邱紫文 (Taiwan)**

- 09:00-09:40    KS2-1    Precise Glycoediting by CRISPR/Cas9-Mediated Gene Disruption Confirming the Specificity of a Chimeric Antigen Receptor for the Globoside SSEA-4  
*Avery Posey (U.S.A.)*
- 09:40-10:20    KS2-2    Toxic Metabolite Pathways in Cancer Cells and Cancer Stem Cells  
*Dohoon Kim (U.S.A.)*

## D1

### Cancer and New Drug Development

**Moderator: Yen-Michael Sheng Hsu (U.S.A.)**

- 10:40-11:10    D1-1    Regulation of Therapeutic Hypothermia on Inflammatory Cytokines, Microglia Polarization, Migration and Functional Recovery after Stroke  
*Shan Ping Yu 余山平 (U.S.A.)*
- 11:10-11:40    D1-2    Novel Biologic Nanodrugs for Cancer Treatment  
*Silke Krol (Italy)*
- 11:40-12:10    D1-3    Importance of Cancer Immune Cell Therapy and Regulation  
*Akihiro Shimosaka (Japan)*

## E1

### Pluripotent Stem Cells and Mesenchymal Stem Cell: Frontier Research

**Moderator: Kwok-Fai So 蘇國輝 (Hong Kong)**

- 13:10-13:40    E1-1    Human Muse Cells Reconstruct Neuronal Circuitry in Rodent Acute and Subacute Stroke Models  
*Mari Dezawa (Japan)*
- 13:40-14:10    E1-2    Human iPSCs as a source for MSCs: Translational Possibilities for Neurodegenerative Diseases & Immunotherapy  
*B. Linju Yen 顏伶汝 (Taiwan)*
- 14:10-14:40    E1-3    Intranasal Transplantation of Stem cells and Neural Progenitor Cells with Gene Modification Increases Regeneration and Functional Recovery after Ischemic Stroke  
*Ling Wei 魏玲 (U.S.A.)*

## F1

### Pluripotent Stem Cells and Mesenchymal Stem Cell: Frontier Research

Moderator: Ling Wei 魏玲 (U.S.A.)

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|-------------|------|---|
| 15:00-15:30 | F1-1 | Prenatal Transplantation of Human Amniotic Fluid Stem Cells Could Improve the Clinical Outcome of Type III Spinal Muscular Atrophy<br><i>Sheng-Wen Shaw 蕭勝文 (Taiwan)</i>  |
| 15:30-16:00 | F1-2 | Translational Research in Stem Cell Therapy: Manufacturing Cord Lining Mesenchymal Stem Cells (CL-MSK) under US-FDA CGMP Standard for Clinical Trials in Diabetic Foot Ulcers<br><i>Toan-Thang Phan (Singapore)</i> |
| 16:00-16:30 | F1-3 | Development of Cellular Reprogramming and iPSC Technology as Personalized Medicine-Based Platform: From Bench to Clinic Bedside<br><i>Shih-Hwa Chiou 邱士華 (Taiwan)</i>   |

## G1

### Cancer and New Drug Development

Moderator: Shan Ping Yu 余山平 (U.S.A.)

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|-------------|------|--|
| 16:30-17:00 | G1-1 | Design of Integrin and VEGFR2-Specific Drugs for Cancer<br><i>Woei-Jer Chuang 莊偉哲 (Taiwan)</i>   |
| 17:00-17:30 | G1-2 | GRO $\gamma$ Mediates the Immunosuppressive Function of Myeloid Cells through Regulating the Expression of TLRs<br><i>Shu-Ching Hsu 許素菁 (Taiwan)</i> |
| 17:30-18:00 | G1-3 | The Anti-Angiogenic and Anti-Cachectic Effects of Fucoïdan in Bladder Cancer-Bearing Mice<br><i>Tz-Chong Chou 周志中 (Taiwan)</i>                       |

## D2

### Bioengineering and Biomaterial Application in Neuroscience

**Moderator: Wutain Wu 吳武田 (Hong Kong)**

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|-------------|------|--|
| 10:40-11:10 | D2-1 | The Role of Blood-Optic Nerve Barrier and Anti-Inflammation to Rescue Retinal Ganglion Cells (RGCs) in Ischemic Optic Neuropathy<br><i>Rong-Kung Tsai 蔡榮坤 (Taiwan)</i> |
| 11:10-11:40 | D2-2 | Human CD40L-Activated B Cells as Antigen-Presenting Cells: Potential for Cancer Research<br><i>Kuei-Ying Su 蘇桂英 (Taiwan)</i>   |
| 11:40-12:10 | D2-3 | Lithium Treatment of Severe Neuropathic Pain in Chronic Spinal Cord Injury<br><i>Wise Young (U.S.A.)</i>   |

## E2

### Bioengineering and Biomaterial Application in Neuroscience

**Moderator: Sheng-Huang Lin 林聖皇 (Taiwan)**

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|-------------|------|---|
| 13:10-13:30 | E2-1 | Application of EEG-Based Brain-Computer Interface to Rehabilitation of Stroke Patients<br><i>Ming-Shaung Ju 朱銘祥 (Taiwan)</i>              |
| 13:30-13:50 | E2-2 | Suppression of Seizures by Photic and Electrical Stimulation<br><i>Chou-Ching Lin 林宙晴 (Taiwan)</i>  |
| 13:50-14:10 | E2-3 | A Thirty-Years History of Deep Brain Stimulation: Technological Innovation and Clinical Application<br><i>Shin-Yuan Chen 陳新源 (Taiwan)</i> |
| 14:10-14:30 | E2-4 | The Altered Patterns of Digit Force Control in Patients with Hand Disorders<br><i>Po-Tsun Chen 陳柏村 (Taiwan)</i>                           |
| 14:30-14:40 |      | Discussion  |



## Oral Presentation

### Oral Presentation

Moderator: Kwok-Fai So 蘇國輝 (Hong Kong) / Dah-Ching Ding 丁大清 (Taiwan)

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|-------------|----|--|
| 15:00-15:12 | O1 | Efficient Generation of Chemically Induced Mesenchymal Stem Cells from Human Dermal Fibroblasts<br><i>Pei-Lun Lai 賴培倫 (Taiwan)</i>                                     |
| 15:12-15:24 | O2 | Positive Regulation of HIF-1A Expression by EBV Oncoprotein LMP1 in Nasopharyngeal Carcinoma Cells<br><i>Wei-Wen Sung 宋維文 (Taiwan)</i>                                 |
| 15:24-15:36 | O3 | Tissue Engineered Nerve Graft Modified by BMSCs-Derived Acellular Matrix for Repairing Long Peripheral Nerve Defect<br><i>Hui Zhu 朱慧 (China)</i>                       |
| 15:36-15:48 | O4 | Efficient Conversion of Human Somatic Cells to Functional Multipotent Stem Cells by Small Molecules<br><i>Shang-Fu Chen 陳尚甫 (Taiwan)</i>                               |
| 15:48-16:00 | O5 | Juxtacrine and Paracrine Signaling Involved in Neurovascular Regeneration by Neural Stem Cell-Engineered Sheet Transplantation<br><i>Chung-Hsing Chou 周中興 (Taiwan)</i> |
| 16:00-16:12 | O6 | Effects of Fat Stem Cells on Liver and Renal Functions<br><i>David C.P. Chen (U.S.A.)</i>  |
| 16:12-16:24 | O7 | Transcriptome Analysis of the Induced Pluripotent Stem Cell (iPSC)-Derived Pancreatic B-Like Cell Differentiation<br><i>Yan Huang 黃夔 (China)</i>                       |

## G2

### Cancer and New Drug Development

Moderator: Dohoon Kim (U.S.A.)

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|-------------|------|---|
| 16:30-17:00 | G2-1 | Using p53 Activation as a Strategy to Regulate Skin Pigmentation and Melanoma Growth Control<br><i>Chubg-Hsing Chang 張中興 (Taiwan)</i>                                     |
| 17:00-17:20 | G2-2 | n-Butylidenephthalide Exhibits Neuroprotection in Spinocerebellar Ataxia Type 3 through Regulation of Tryptophan 2, 3 Dioxygenase<br><i>Karthyayani Rajamani (Taiwan)</i> |
| 17:20-17:40 | G2-3 | n-Butylidenephthalide Attenuate Amyotrophic Lateral Sclerosis Symptoms through Down-Regulation Autophagy<br><i>Kuo-Wei Hsueh 薛國偉 (Taiwan)</i>                             |
| 17:40-18:00 | G2-4 | Isochailactone-Induced DDIT3 Causes ER Stress-PERK Independent Apoptosis in Glioblastoma Multiforme Cells<br><i>Sheng Feng Tsai 蔡昇峰 (Taiwan)</i>                          |

### April 15 (Saturday)

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

12:00-12:40 L1 Commercial Production of Autologous Stem Cells and Therapeutic Potential for Stroke  
*Chia-Hsin Lee 李家昕 (Taiwan)*

### April 16 (Sunday)

**StemCyte International, Ltd. 永生生技集團**

12:10-13:10 L2 An Innovative Vitamins-Containing Pure Silk facial Mask which Enhances Skin Stem Cells  
Regeneration and Effectively Retards the Effects of Aging of the Skin  
*Jonas CT, Wang 王嘉宗 (U.S.A.)*