Programme

Day 1: 13 October 2010, Wednesday

<table>
<thead>
<tr>
<th>Plenary I</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL-I</td>
<td></td>
</tr>
</tbody>
</table>

Stem Cell Therapies – The Underlying Biology and Impact on Clinical Trials  
F Dazzi

Symposium I – Stem Cells

Invited Speakers

SPI-IS1  
Foxg1: A Key Regulator of Neural Fate  
J O Mason

SPI-IS2  
Mesenchymal Stem Cells Transplantation Protects Dopaminergic Neurons in the Substantia Nigra in Parkinson’s Disease  
S S W Tay

SPI-IS3  
Stem Cell and Immune Tolerance  
F Dazzi

Oral Presentations

SI-OP1  
Isolation and Localization of Stem Cells Nich in the Bulge of Human Hair Follicle  
A B Mohd Hilmi, A S Halim, Z Idris, H Asma, E Nancy, T Stephan, P Ralf

SPI-OP2  
Formation of Embryoid Bodies Comprising Three Embryonic Germ Layers From Rat Full-Term Amniotic Fluid-Derived Stem (AFS) Cells  
F Nurfarhana, L Y Gao, N Y Mohd, N Nordin

SPI-OP3  
Mesenchymal Stem Cells-microglia Interactions in Response to Lipopolysaccharide  
Z Rahmat, Y Y Ooi, R Ramasamy, S Vidyadaran

SPI-OP4  
Human Umbilical Cord Derived Mesenchymal Stem cells Suppress T Cell Proliferation Through Cell Cycle Arrest  
C K Tong, B C Tan, H F Seow, R Ramasamy

Symposium II - Biomaterials, Bioreactors & Biomanufacturing

Invited Speaker

SPII-IS2  
Manganese Doping on Biphasic Calcium Phosphate Ceramics for Mechanical Improvement  
I Sopyan

Oral Presentations

SPII-OP1  
Carbodiimide is a Better Cross Linking Agent for Sheep Tendon Collagen  
M B Fauzi, M A Amri, S Aminuddin, B H I Ruszymah

SPII-OP2  
Optimization of Process Conditions for High Cell Density Proliferation of DF-1 Cells in Bioreactor  
M Mel, M A Arifin, H N Sohif, SS Hassan
**SPII-OP3** Adaptation of U937 Cell in Agitation Culture
*M I Fauzi, F A Abdul Majid*

**SPII-OP4** In vitro Cytotoxicity Effect of CoCrMo Alloy at Differing Carbon Compositions
*M W Norsamsiah, H Mohamad Noor, A K Mohammed Rafiq, A M Fadzilah Adibah*

**SPII-OP5** Study of Immobilized Bovine and Fish Gelatin on Carboxyl Containing Polystyrene Beads for Vero Cell Culture
*Yusilawati Ahmad Nor, Maizirwan Mel, Hamzah Mohd Salleh, Ng Kim Hooi, Wong C.S*

**SPII-OP6** Composite of Porous Hydroxyapatite with Alumina for Bone Repair
*M Rusnah, I Besar, M Reusmaazran*

---

**Symposium III - Nanotechnology, Computer Modelling & Imaging Technology**

**Invited Speakers**

**SPIII-IS1** Nanotechnology and Biomimetics in Tissue Engineering and Regenerative Medicine
*I C Gebeshuber, M O Macqueen, B Y Majlis*

**SPIII-IS2** Magnetic Nanoparticle-based Tagging of Mechanosensors for Bone Tissue Engineering
*A J El Haj*

**SPIII-IS4** Rapid Prototyping Technique – Today’s and Tomorrow’s Technology to Develop 3D Tissue Engineering Scaffold
*M E Hoque*

---

**Oral Presentations**

**SPIII-OP1** Different Assessment Modalities (Radiography, Urodynamic, Ultrasonography) for the Evaluation Of Urinary Bladder Reconstructuion
*A S Salah, M H Ng, M Z Zulkifili, C C K Ho, S Ismail, B H I Ruszymah*

**SPIII-OP2** In Vitro Evaluation of Dye Retention and Viability Using PKH26 in Bone Marrow and Adipose Stem Cell for Cell Tracking
*C Ude Chinedu, B S Shamsul, Ng Min Hwei1, H C Chen, Y Nur Hamdan, B H I Ruszymah*

Day 2 : 14 October 2010, Thursday

---

**Plenary II**

**PLII** Designing New Strategies for Delivering Cell Therapies into the Clinic
*A J El Haj*

---

**Symposium IV - Tissue Engineering**

**Invited Speakers**

**SPIV-IS1** Mesenchymal Stem Cell Scale-Up for Cartilage Engineering
*Tunku Kamarul Zaman*

**SPIV-IS2** Tissue Engineering of the Cornea in Rabbit Model
*A G Norzana, C H Jemaima, K H Chua, A R Ropilah, O Fauziah, W N Wan*
**Oral Presentations**

**SPIV-IS3**  
Isolation of a Clonal Mesenchymal Stem Cell Line from Rat Bone Marrow and Its Application for Preventing Acute Fatal and Chronic Liver Failure  
*M Hardjo*  

**Oral Presentations**

**SPIV-OP1**  
Dermal Fibroblasts Conditioned Medium (DFCM) Enhanced the Expansion of Keratinocytes  
*R C Shiplu, B H I Ruszymah*  

**SPIV-OP2**  
Air-Dried Amniotic Membrane versus Autologous Fibrin Transplantation for Large Conjunctival Epithelial Defects in Rabbits  
*M H Hairul Nizam, M K Safinaz, K H Chua, A G Norzana, A R Ropilah, C H Jemaima, B H I Ruszymah, H A Faridah*  

**SPIV-OP3**  
Autologous Tissue Engineered Cornea Sustitute Preserve Corneal Suface Epithelial Morphology  
*S S Masrudin, O Fauziah, R Asmah, B H I Ruszymah, A G Norzana, C H Jemaima, M Saidi*  

**SPIV-OP4**  
Inflammatory Cytokines and Osteogenic Potential of Stem Cells from Human Exfoliated Deciduous Teeth (SHED)  
*S J Tan, G Norliana, A S Nurul, A B Asiah, O Shamsuria, A A Nurul*  

**SPIV-OP5**  
Human Bone Marrow Mesenchymal Stem Cells Can Be Differentiated to Corneal Lineages proven by Presence of β-Integrin and CEBPδ  
*C M Rohaina, K Y Then, M H Ng, B S Aminuddin, R Roszlina, B H I Ruszymah*  

**Symposium V- Gene & Herbal Therapy**

**Invited Speakers**

**SPV-IS1**  
Lentiviral Transgene Silencing in Transduced Haematopoietic Stem Cells  
*S Abdullah, S C Ngai, R Ramasamy, R Rosli*  

**SPV-IS2**  
Bio-functional Nanoparticles for Transfection of Embryonic Stem Cells  
*M E H Chowdhury*  

**SPV-IS3**  
Young Coconut Juice, a Potential Therapeutic Agent for Postmenopausal Women: Novel Findings  
*N Radenahmad*  

**SPV-IS4**  
Strobilanthes crispus: A Potential Herb as Anticancer for Liver and Breast  
*R Asmah, O Fauziah, M A Abdah*  

**Oral Presentations**

**SPV-OP1**  
Effect of L-Carnitine on the Antioxidant Status and Neurochemical Hormones in 6-Hydroxydopamine-Induced Neurotoxicity in the Substantia Nigra of Aged Rats  
*P Kumar, H Nagaraja, R Jegathambigai, M Sridharan, Mohan*  

**SPV-OP2**  
Optimal Transfection Conditions and the Safety Profiles of Dextran-Spermine/Plasmid DNA as a Potential Gene Transfer Vector to Mouse Airway  
*W Y Wendy-Yeo, R Rosli, A Veerakumarasivam, S A Rahman, A J. Domb, S Abdullah*
## Symposium VI – Clinical Translation

### Invited Speakers

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPVI-IS1</td>
<td>Cord Blood Banking: State-of-the-art</td>
<td>F A El-Chennawi</td>
</tr>
<tr>
<td>SPVI-IS3</td>
<td>From Bench to Bedside: “The Challenges and Results of Clinical Trials I &amp; II for Testing Locally-fabricated Bioceramic in Orthopaedic Applications”</td>
<td>A H Zulkifly</td>
</tr>
<tr>
<td>SPVI-IS4</td>
<td>The Journey of Stem Cells in Veterinary Practice</td>
<td>S Ganabadi</td>
</tr>
<tr>
<td>SPVI-IS5</td>
<td>The Journey towards Clinical Trials in Cell and Tissue Therapy</td>
<td>B H I Ruszymah</td>
</tr>
</tbody>
</table>

### Poster Presentation

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-PP1</td>
<td>Inducible Transgene Expression of DKK1 in Mouse Embryonic Stem (Es) Cells and Embryoid Bodies</td>
<td>L Gao, S Abdullah, M Li, J O Mason, N Nordin</td>
</tr>
<tr>
<td>SC-PP2</td>
<td>Human Mesenchymal Stem Cells Maintain their Phenotypes and Differentiation Capacity to Adipogenic and Osteogenic Lineages after Manipulation with Nucleofection</td>
<td>P L Mo, S K Cheong, C F Leong, K H Chua, A Othman</td>
</tr>
<tr>
<td>SC-PP3</td>
<td>Differentiation Potential of C-Kit Positive Cells Derived from Full Term Rat Amniotic Fluid to Neural Lineage</td>
<td>M F Hoo, N Ferdaos, L Gao, T Karuppiah, N Nordin</td>
</tr>
<tr>
<td>SC-PP4</td>
<td>Suppression of Interleukin-6 in Human Bone Marrow-derived Mesenchymal Stem Cells Post siRNA Transfection</td>
<td>H K Teoh, P P Chong, M Abdullah, Z Sekawi, CF Leong, SK Cheong</td>
</tr>
<tr>
<td>SC-PP5</td>
<td>Prospective Pluripotent Stem Cells Derived from Human Full-term Amniotic fluid during Deliveries</td>
<td>Thaiya Nachiar K. Lenin, Nurfarhana Ferdaos, Mohd. Nazri Yazid, Rozita Rosli, Abhimanyu Veerakumarasivam, Norshariza Nordin</td>
</tr>
<tr>
<td>SC-PP6</td>
<td>Effects of High Gentamicin Concentration on Viability and In Vitro Proliferation of Bone Marrow-derived Human Mesenchymal Stem Cells</td>
<td>C Y Wong, N Mei-Theng, S P Chin, S K Cheong</td>
</tr>
<tr>
<td>SC-PP7</td>
<td>Generation and Characterisation of Mesenchymal Stem Cells Derived from Human Cardiac Tissues</td>
<td>R Ramasamy, S Vellasamy, S Sivalingam, A Yakub, H F Seow</td>
</tr>
<tr>
<td>SC-PP8</td>
<td>Expression of OCT4 in c-kit Positive Cells Derived from Rat Full</td>
<td></td>
</tr>
</tbody>
</table>
Term Amniotic Fluid
N Nordin, M F Hoo, N Ferdaos, T Karuppiah, R Rosli

BM-PP1 Biocompatibility of Gentamicin-Coated Hydroxyapatite (Ha) with Osteoblast
O Fauziah, C S Che Nor Zarida, K S Tan, L F Au, M Saidi, B Idris, M Rusnah, R Asmah, G K Mohd Azam Khan, A Azfar Rizal

BM-PP2 Effects of Hyaluronan on Mesenchymal Stem Cells
P F Choong, C S Y Jee, C F Leong, S K Cheong

TE-PP1 Growth Factor Supplementation Does Not Maintain Hair Cell Specific Genes in Cochlear Culture
M A Ubaidah, K H Chua, A Mazita, A Zainal, B S Aminuddin, BHI Ruszymah, Saim L

TE-PP2 Histological Analysis Of Tissue Engineered Cartilage Made From Microtic Auricular Chondrocytes
B S Goh, M F Ishak, K H Chua, A Asma, L Saim, B S Aminuddin, B H I Ruszymah

TE-PP3 SEM Evaluation of Acellularized Muscle Stuffed Vein Construct Seeded with Human Neuro Trans-Differentiated Mesenchymal Stem Cells : In Vitro and In Vivo Study
H Nur Hidayah, M H Ng, B H I Ruszymah, A S Naicker, A Shalimar

TE-PP4 5-Azacytidine Failed To Up-Regulate Cardiogenic Genes Expression In Long-Term Culture Human Adipose-Derived Stem Cells
W S Wan Kamarul Zaman, S Makpol, S Sathapan, K H Chua

TE-PP5 The Differentiation of Bone Marrow Stem Cells Into Cardiomyocytes: An Immunocytochemical Analysis
B S Nadiah, B S Shamsul, M H Ng, B H I Ruszymah

TE-PP6 Trypsinization of Human Keratinocytes And Fibroblasts Using Animal Free Trypsn: Towards Clinical Application
M Manira, W T Seet, A K Khairul, A W Ahmad Irfan, K H Chua, M H Ng, B H I Ruszymah

TE-PP7 Establishment and Characterisation of Malaysian Human Breast Cancer Cell Lines.
J Y Lai, B Kamalidehghan, M R Zamanian, R Rosli, A Veerakumarasivam

TE-PP8 Respiratory Epithelial Cells Cultured from Human Nasal Polyps Showed Evidence of Viral Infections
S F Khor, B S Aminuddin, B H I Ruszymah

TE-PP9 Physical Model of a Dynamic Bioreactor Prototype for Skin Tissue Culture
M E Hoque, M H Ng, F Oguichen Lucky, B H I Ruszymah

GT-PP1 Transfection of Human Bone Marrow-Derived Mesenchymal Stem Cells with hIFNγ Gene
L C Liew, M Abdullah, C F Leong, S A W Fadilah, S K Cheong

GT-PP2 Generation of Dendritic-cell based Cancer Vaccine for Mouse Acute
<table>
<thead>
<tr>
<th>Keyword</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myeloid Leukemia</td>
<td>116</td>
</tr>
<tr>
<td>Optimal Transfection</td>
<td>118</td>
</tr>
<tr>
<td>Delivery of Plasmid</td>
<td>121</td>
</tr>
<tr>
<td>Gender Differences in</td>
<td>123</td>
</tr>
<tr>
<td>Haematological Parameters</td>
<td>125</td>
</tr>
<tr>
<td>Toxicological Evaluation</td>
<td>127</td>
</tr>
<tr>
<td>In vitro Anti-cancer</td>
<td>130</td>
</tr>
<tr>
<td>Effects of Morinda</td>
<td>135</td>
</tr>
</tbody>
</table>

SC-Stem Cells, BM-Biomaterials, TE-Tissue Engineering, GT-Gene Therapy, HT-Herbal Therapy