

**New Frontiers in Stem Cell Basic Research,
Translation and Clinical Application**
in association with the *International Placenta Stem Cell
Society*

September 19- 21st, 2016

Riyadh,

Saudi Arabia

MEETING VENUE KSAU-HS Convention Center, King Saud bin Abdulaziz University, Riyadh,
Saudi Arabia

DAY 1 – Monday, 19 September 2016			
3rd Stem Cells Conference (IV IPLASS MEETING)			
Time	Minutes	Topic	Speaker
7:30- 9:00	1hr 30'	Registration	
Opening Ceremony			
9:10- 9: 25	15'	Welcome Address, KAIMRC Executive Director	Dr. Ahmed Al Askar
9:25- 9:40	15'	Opening Remarks, Chief Executive Officer, NGHA and President, KSAU-HS	H.E. Dr. Bandar Al Knawy
9:40- 10:00	20'	Local Organizer and IPLASS President Welcome	Mohamed Abumaree/ Dunia Jawdat/ Ornella Parolini
10:00- 10:30	30'	Coffee Break	
SESSION ONE: Stem Cells/ Progenitor Cells in Human Placenta			
Moderators: Ornella Parolini and Monther Alalwan			
10:30- 10:55	25'	Humane amniotic membrane for novel applications in regenerative medicine	Susanne Wollbank (Austria)
10:55- 11:20	25'	Immune Modulatory Properties of Human Placental Mesenchymal Stem Cells	Mohamed Abumaree (Saudi Arabia)
11:20- 11:45	25'	Immune Aspects of Mesenchymal-Endothelial Interactions	Guenther Eissner (UK)
11:45- 1:00	1hr 15 min	Prayer and Lunch Break	
SESSION TWO: Placenta Derived Cells from their Characteristics to their Application			
Moderators: Stephen Strom and Abdullah Assiri			
1:00- 1:25	25'	The pathobiology of placental stem cells and its relevance to therapeutic interventions	Bill Kalionis (Australia)
1:25- 1:50	25'	Amniotic Membrane, in cooperation with TGF β , induces epithelialization in human chronic wounds	Francisco Villaescusa (Spain)
Young investigator presentation			
Moderators: Graham Parker, Benjamin Buller and Raed Abu Dawud			
1:50- 2:05	15'	Amniotic Membrane Stimulates Keratinocyte Proliferation and Migration in Chronic Wounds by Modifying TGF β -Induced Gene Expression Program	Ángel Bernabé García (Spain)
2:05- 2:20	15'	In vivo differentiation of Amniotic Epithelial Cells into hepatic sinusoidal endothelial cells	Fabio Marongiu (Italy)
2:20- 2:35	15'	The cardioprotective potential of the human amniotic fluid stem cell secretome in a doxorubicin-derived cardiotoxicity model	Sveva Bollini (Italy)
2:35- 2:50	15'	Human amniotic membrane is a suitable candidate to improve bone repair	Florelle Gindraux (France)
2:50- 4:00	1hr 10 min	Poster Session, Prayer and Coffee Break	
IPLAS Young investigator presentation			
Moderators: Lee Farmer, Ismail A Bakhsh and Bahauddeen Al-rfaei			
4:00- 4:15	15'	Human mesenchymal stem/multipotent stromal cells from Decidua Parietalis of human term placenta modulate monocyte interaction with HUVEC	Bushra Alhazmi (Saudi Arabia)
4:15- 4:30	15'	Isolation methods of pluripotent and multipotent stem cells from human umbilical cord blood: Application to Drug Metabolism Studies	Wahaj Uddin (India)
4:30- 4:45	15'	Human mesenchymal stem/multipotent stromal cells from Decidua Parietalis of human term placenta modulate the expression of receptors important in mediating the immunomodulatory functions of macrophages in cancer	Saud Al-Sarheed (Saudi Arabia)
4:45- 5:00	15'	The Effect of Endothelial Activation and Hypoxia on Placental Chorionic Mesenchymal Stem Cell Migration	Batla Al-Sowayan (Saudi Arabia)
IPLASS General Assembly			

SCIENTIFIC PROGRAM

DAY 2 – Tuesday, 20 September 2016			
3rd Stem Cells Conference (IV IPLASS MEETING)			
Time	Minutes	Topic	Speaker
SESSION THREE: Cell Approaches Using Placental Stem Cells			
Moderators: Bill Kalionis, Susanne Wolbank and Abdullah Aldahmash			
8:00- 8:25	25`	The current landscape of the therapeutic potential of placental cells	Ornella Parolini (Italy)
8:25- 8:50	25`	Translation of human amnion epithelial cell therapy of liver disease to the clinic	Stephen Strom (Sweden)
8:50- 9:15	25`	Placental Mesenchymal Stromal Cells Rescue Ambulation in Ovine Myelomeningocele	Lee Farmer (USA)
9:15- 9:40	25`	Multiple aspects of Wharton's jelly mesenchymal stem cells action in cell therapy.	Giampiero La Rocca (Italy)
IPLAS Young investigator presentation			
Moderators: Guenther Eissner and Alaa Alshareeda			
9:40- 9:55	15`	In vivo-like membrane lipidomics positively influence in vitro features of cultured mesenchymal stromal cells derived from human placenta	Martina Rossi (Italy)
9:55- 10:10	15`	Mesenchymal stem cells (MSCs) contribute to the pathology of endometriosis	Fawaz Abomaray (Sweden)
10:10- 10:40	30`	Coffee Break	
Cord Blood Banking, Stem Cell Therapy and Stem Cells in Diseases			
SESSION ONE: Cord Blood Banking and Cord Blood Immune Cells			
Moderators: Mohsen Alzahrani and Martin Maier			
10:40-11:05	25`	Improving the quality and usage of Cord Blood transplants	Dunia Jawdat (Saudi Arabia)
11:05- 11:30	25`	Towards optimizing the use of umbilical cord blood for immunotherapy	Aurore Saudemont (UK)
11:30- 11:55	25`	WHERE CORD BLOOD? RE-SHAPING CB BANKS	Sergio Querol (Spain)
11:55- 1:00	1hr 5 min	Prayer and Lunch Break	
SESSION TWO: Stem Cell Therapy			
Moderators: Gamal Gmati, Khadega Ahmed and Dipok Kumar Dhar			
1:00- 1:25	25`	Umbilical Cord Blood Transplantation – Strategies to Enhance Lympho-Hematopoietic Recovery	John Wagner (USA)
1:25- 1:50	25`	Alternative Donor Transplantation-2016	Karen Ballen (USA)
1:50- 2:15	25`	Adoptive cell therapy after stem cell transplantation	Michael Uhlin (Sweden)
2:15- 2:40	25`	Exosomes /miRNA mediate cell-based therapy induced neurological recovery?	Benjamin Buller (USA)
2:40- 3:05	25`	Umbilical Cord Blood Transplantation – Strategies to Prevent GVHD and enhance Immune Recovery	John Wagner (USA)
Selected presentations: Stem Cell Therapy			
Moderators: Steven Marsh, Khaled Alsayegh, Bhavesh V. Mistry and Mohammad Aziz			
3:05- 3:35	30`	Prayer and Coffee Break	
Selected presentations: Stem Cell Therapy			
Moderators: Steven Marsh, Khaled Alsayegh and Mohammad Aziz			
3:35- 3:50	15`	Stem Cell Therapy for Avascular necrosis of Femoral Head in Sickle cell disease	Sadat Ali (Saudi Arabia)
3:50- 4:05	15`	Vasoreparative effect of metformin on human CD34 ⁺ cells under hyperglycemia and hypoxia	Sherin Bakhshab (Saudi Arabia)
4:05- 4:20	15`	Management of osteoporosis using stem cell therapy	Haifa Al- Turki (Saudi Arabia)
4:20- 4:35	15`	BM-MSCs effectively regenerate fibrotic liver better in grade 3 than in grade 4 fibrosis	Hoda Elsayed (Egypt)
4:35- 5:35	60`	Poster Session	

SCIENTIFIC PROGRAM

DAY 3 – Wednesday, 21 September 2016 3rd Stem Cells Conference (IV IPLASS MEETING)			
Time	Minutes	Topic	Speaker
SESSION THREE: Research Ethics, Donor Registry and HLA TYPING Moderators: Aurore Saudemont, Dunia Jawdat and John Wagner			
8:00-8:25	25'	Research Ethics and Regenerative Medicine	Graham C Parker (Canada)
8:25- 8:50	25'	HLA and non-HLA Criteria to Pick the Optimal Unrelated Donor	Carlheinz Mueller (Germany)
8:50- 9:15	25'	HLA Diversity in the Middle East and Globally	Martin Maiers (USA)
9:15- 9:40	25'	Third Generation Sequencing - the solution to HLA typing	Steven Marsh (UK)
9:40- 10:05	25'	HLA typing and beyond	Ilias Doxi (Germany)
10:05- 10:35	30'	Coffee Break	
SESSION FOUR: Stem Cells in Diseases, Disease Modelling and Stem Cell Sheet Moderators: Michael Uhlin and Bhavesh Mistry			
10:35-11:00	25'	Modeling human metabolic liver disease with iPS and liver humanized mice	Stephen Strom (Sweden)
11:00- 11:25	25'	Epigenetic Regulation of Mesenchymal Stem Cell Differentiation	Nehad M. Alajez (Saudi Arabia)
11:25- 11:50	25'	Characterization of novel genes regulating osteoblast differentiation of bone marrow stromal cells	Amer Mahmood (Saudi Arabia)
11:50- 1:00	1hr 10 min	Prayer and Lunch Break	
SESSION FOUR: Stem Cells in Diseases, Disease Modelling and Stem Cell Sheet Moderators: Francisco Villaescusa and Ilias Doxi			
1:00- 1:25	25'	Towards the control of stem cell migration through the engineering cell surface glycans	Jasmeen Merzaban (Saudi Arabia)
1:25- 1:50	25'	Cancer Stem Cells: Real or just Hype	Monther Alalwan (Saudi Arabia)
Selected presentations: Stem Cells in Diseases, Disease Modelling and Stem Cell Sheet Moderators: Sherin Bakhshab and Sveva Bollini			
1:50- 2:05	15'	A novel Stem Cell Model for Personalized Drug Screening in Motor Neuron Disease	Sufana Al-Mashhadi (Saudi Arabia)
2:05- 2:20	15'	Enhancing the Safety of Induced Pluripotent Stem Cell (iPS) -Based Therapy for Heart Regeneration	Khaled Alsayegh (Saudi Arabia)
2:20- 2:35	15'	The effect of MSCs on vascularization and function of Hepatocellular carcinoma	Alaa Alshareeda (Saudi Arabia)
2:35- 3:35	60'	Poster Session, Prayer and Coffee Break	
Selected presentations: Stem Cells in Diseases, Disease Modelling and Stem Cell Sheet Moderators: Tanvir Khatlani and Batla Al-Sowayan			
3:35- 3:50	15'	Pan-mammalian target of rapamycin (mTOR) inhibitor PP242 potentiates synergistically ABT737 induced apoptosis in acute myeloid leukemia cells	Farid Ahmed (Saudi Arabia)
3:50- 4:05	15'	Effects of blue low-level laser to enhance the proliferation, viability and migration of human embryonic stem cells derived mesenchymal stem cells	Ashok Kumar (Saudi Arabia)
4:05- 5:05	60'	CLOSING REMARKS	