RegenMed SA
Second San Antonio Conference on
Stem Cell Research & Regenerative Medicine

University Center Ballroom #1, UTSA Main Campus

Program

Thursday, February 11th

8:30 – Opening Keynote Lecture – Introduced by John McCarrey, UTSA
Sean Morrison (Professor and Mary McDermott Cook Chair in Pediatric Genetics, UT Southwestern Medical Center)
“Stem Cell Niches in the Bone Marrow”

Session I – Science of Stem Cells
(Session chair – Christi Walter, UTHSCSA)

9:30 – Tiziano Barberi (SNPRC)
“Directed Derivation of Specific Cell Types from Human Pluripotent Stem Cells”

9:50 – Doug Grow (UTSA)
“Toward Establishing the Baboon as a Preclinical Model for Pluripotent Stem Cell Therapy for Parkinson’s Disease: Production and Characterization of Dopamine Neurons from Baboon Pluripotent Stem Cells”

10:10 – Shamim Mustafa (UTHSCSA)
“Effect of Mechanical Ventilation and Postnatal Adaptation on Endogenous Premature Lung Mesenchymal Stromal Cells”

10:30 – Coffee break

11:00 – Xiao-Dong Chen (Stem BioSys/UTHSCSA)
“Restoring the Regenerative Capacity of Human Bone Marrow-derived Mesenchymal Stem Cells (BM-MSCs) from the Elderly to Establish a High Quality Autologous MSC Bank”

11:20 – Travis Kotzur (UTSA)
“Granulocyte Colony-Stimulating Factor (G-CSF) Promotes Spermatogenic Regeneration after High-Dose Alkylating Chemotherapy”
11:40 – Doug Frantz (UTSA)
“Discovery of Small Molecules as Tools to Understand and Regulate Stem Cell Differentiation”

12:00 – Lunch (provided)

1:00 – Luis Penalva (UTHSCSA)
“miRNA Networks in Neurogenesis”

1:20 – Jon Bohmann (SwRI)
“In Silico Simulation of Allosteric Inhibitors of Survivin in the Role of Modulating Stemness”

Session II – Tissue Engineering
[Session chair – Jian Ling, SwRI]

1:40 – Randolph Stone (USA-ISR)
“Pegylated Fibrin Hydrogels for Delivery of Adipose Stem Cells To Deep Partial Thickness Burn Wounds”

2:00 – Teja Guda (UTSA)
“Musculoskeletal Tissue Engineering for Composite Tissue Damage”

2:20 – John Fletcher (USA-ISR)
“Single Stage Bilayer Skin Replacement Is Feasible in a Porcine Model of Excisional Wounding”

2:40 – Coffee break

3:10 – Ramesh Kaini (USA-ISR)
“Extracellular Matrix Remodeling during 3D Retinal Differentiation of Human Induced Pluripotent Stem Cells”

3:30 – Xing Guo Cheng (SwRI)
“In Vivo Tendon Regeneration in a Critical Size Tendon Defect Model Using Advanced Biomaterials, a Growth Factor, and Adipose-Derived Stem Cells (ADSCs)”

3:50 – Heuy-Ching Wang (USA-ISR)
“Stem Cells as Tools in Tissue Engineering and Injury Modeling for Combat-Related Ocular Injuries”
4:10 – **Nikita Ruparel** (UTHSCSA)
“Advancements in Regenerative Endodontics”

4:30 – **Jian Ling** (SwRI)
“A Biomimetic Osteoconductive and Osteoinductive Tissue Engineering Bone Scaffold”

4:50 – *Adjourn to Poster Session & Reception*

5:00 – 7:00 – **Poster Session & Networking Reception – UC Ballroom #2**

**Friday, February 12th**

**Session III – Clinical Progress & Applications**
[Session chair – Michael Davis, USA-ISR]

8:30 – **Senlin Li** (UTHSCSA)
“Novel Hematopoietic Stem Cell Transplantation-based Gene Editing as Therapeutics”

8:50 – **Shan Natesan** (USA-ISR)
“A Human Plasma-Extracellular Matrix Composite for Improved Skin Regeneration”

9:10 – **Marcel Daadi** (SNPRC)
“MRI Guided Delivery of Neural Stem Cells into the Basal Ganglia of Baboons”

9:30 – *Coffee break*

10:00 – **George Perry** (UTSA)
“Alzheimer ‘Disease-In-A-Dish’ and Development of Novel Therapeutics”

10:20 – **Daniel Lodge** (UTHSCSA)
“Stem Cell Derived Interneuron Transplants as a Novel Therapy for Psychiatric Disease”

10:40 – **Christine Kowalczewski** (USA-ISR)
“Development of a Swine Model To Investigate the Conversion of Burns from Partial-Thickness To Full Thickness in Depth”
11:00 – Peter Hornsby (UTHSCSA)
“Intranasal Delivery of Stem Cells to the CNS”

11:20 – Ben Antebi (USA-ISR)
“Systemic Administration of Stem Cells: Bedside Cell Retrieval, Characterization and Viability”

11:40 – Donna Lehman (UTHSCSA)
“Understanding Obesity Susceptibility Using Human iPS-Derived Hypothalamic Neurons”

12:00 – Lunch (provided)

Session IV – Technology Transfer & Commercialization
[Session chair – Sy Griffey, StemBioSys]

1:00 – Tamsen Barrett (Norton Rose Fullbright)
“Keys to IP”

1:20 – Danny Lee (Aperion)
“Concept to Commercialization – Aperion’s Tenacity”

1:40 – Cory Hallam (UTSA)
“University Partnerships in a New Age of Biomedical Technology Commercialization”

2:00 – Closing Keynote Lecture – Introduced by Michael Davis, USA-ISR
Rocky Tuan (McGowan Institute for Regenerative Medicine)
“Adult Stem Cells and Biomimetic Materials for Skeletal Tissue Regeneration: Repair, Restore, and Re-create”

3:00 – Conference Adjourns