Statewide Symposium in Regenerative Medicine

Location:
ASU - Sky Song
Synergy I & II, Building 3
1475 N. Scottsdale Road
Scottsdale, Arizona

Program

Friday May 17, 2019

12:30 - 1:00 PM  Check-In
1:00 - 1:15 PM  Welcome and Introduction

Session A: University of Arizona

1:15 - 1:45 PM  Overview of Regenerative Medicine Efforts at University of Arizona & iPSC Cardiomyocyte Heterogeneity and Implications for Heart Disease Modeling
Jared Churko, PhD
Assistant Professor, Department of Cellular and Molecular Medicine
Director, iPS Cell Core
University of Arizona

1:45 - 2:05 PM  Using iPSC-Derived Cardiomyocytes to Investigate Human LMOD2 Cardiomyopathy
Jessika Iwanski, MS
MD/PhD Candidate
College of Medicine-Tucson
University of Arizona

2:05 - 2:25 PM  Regenerative Approaches for Age-Related Neurodegeneration
Lalitha Madhavan MD, PhD
Associate Professor, Department of Neurology
Center for Innovation in Brain Science
University of Arizona

2:25 - 2:45 PM  HiPSCs for Modeling of Vascular Toxicity
Won Hee Lee, PhD
Assistant Professor, Department of Basic Medical Sciences
University of Arizona College of Medicine-Phoenix.

2:45 - 3:00 PM  Break
**Session B: Mayo Clinic and The Translational Genomics Research Institute**

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter/Role/Institution</th>
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<tr>
<td>3:05 - 3:30 PM</td>
<td>Overview of Regenerative Medicine Efforts at Mayo Clinic &amp; Advancing Blood and Marrow Tissue Engineering into Clinical Trials</td>
<td>Michael Gustafson, PhD, Scientific Director, Nyberg Human Cellular Therapy Laboratory, Mayo Clinic</td>
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<td>3:30 - 3:50 PM</td>
<td>Mitochondria in Pluripotent Stem Cells: Stemness Regulators and Disease Targets.</td>
<td>Clifford Folmes, PhD, Assistant Professor, Department of Biochemistry and Molecular Biology, Mayo Clinic</td>
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<td>3:50 - 4:15 PM</td>
<td>Overview of Regen Med Efforts at TGEN &amp; Investigating CAR T Cell Therapy and Response at a Single Cell Resolution</td>
<td>Nicholas Banovich, PhD, Assistant Professor, Division of Integrated Cancer Genomics Division, TGEN</td>
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<td>4:15 - 4:35 PM</td>
<td>New Life from the Autopsy Table: iPSCs for the Study of Neurological Disease from Brain and Body Donors</td>
<td>Matt Huentelman, PhD, Professor, Division of Neurogenomics</td>
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<td>4:40 - 5:00 PM</td>
<td>Break</td>
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**Session C: Keynote and Poster Session**

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<tr>
<td>5:00 - 5:30 PM</td>
<td>Keynote Presentation: TBD</td>
<td>Ben Hurlbut, PhD, Professor, School of Life Sciences Arizona State University</td>
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<td>5:30 - 7:00 PM</td>
<td>Reception and Poster Presentation</td>
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Saturday May 18, 2019

7:30 - 8:30 AM Check-In and Breakfast

Session D: Arizona State University

8:30 - 8:45 AM | Overview of Regenerative Medicine Efforts at Arizona State University
David Brafman, PhD MBA
Assistant Professor, School of Biological and Health Systems Engineering
Director, Stem Cell Training and Research Program
Arizona State University

8:45 - 9:05 AM | Next Generation Liver Organoids to Advance Human Precision Medicine
Mo Ebrahimkhani, MD
Assistant Professor, School of Biological and Health Systems Engineering
Arizona State University

9:05 - 9:25 AM | The Epigenetic Control of Regenerative Capacity
Robin Harris, PhD
Assistant Professor, School of Life Sciences
Arizona State University

9:25 - 9:45 AM | Designing Biomaterials for Spatial and Temporal Control of Stem Cell Behavior
Julianne Holloway, PhD
Assistant Professor, School for the Engineering of Matter, Transport and Energy
Arizona State University

9:45 - 10:05 AM | Experimental Stem Cell Treatment: Who Pays?
Emma Frow, PhD
Assistant Professor, School for the Future in Innovation in Society and School of Biological and Health Systems Engineering
Arizona State University

10:05 - 10:30 AM Break

Session E: Northern Arizona University and Barrow Neurological Institute

10:30 - 10:40 AM | Overview of Regenerative Medicine Efforts at Northern Arizona University
Narendiran Rajasekaran, PhD
Assistant Professor, Department of Chemistry and Biochemistry
Northern Arizona University

10:40 - 11:00 AM | Stem Cells in Regenerative Medicine
Robert S. Kellar, PhD
Associate Professor of Practice
Northern Arizona University
11:00 - 11:20 AM  
*Genetically Encoded Materials for Control of Cell Fate*  
Jennifer Martinez, PhD  
Director, Center for Materials Interfaces in Research and Applications, ¡MIRA!  
Professor, Department of Applied Physics and Materials Science  
Northern Arizona University

11:20 - 11:40 AM  
*Overview of Regenerative Medicine Efforts & Patient Derived iPSC Neuron and Glial Cells to Model the ALS/FTD Disease Spectrum*  
Rita Sattler, PhD  
Associate Professor, Department of Neurobiology  
Barrow Neurological Institute

11:40 - 12:00 PM  
*Root of all Evil: Glioma Stem Cells and Therapy Resistance in GBM*  
Shwetal Mehta, PhD  
Associate Professor, Department of Neurobiology  
Barrow Neurological Institute

12:00 - 12:15 PM  
*Closing Remarks*