

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

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

Session C: Keynote and Poster Session

- 5:00 - 5:30 PM ***Keynote Presentation: TBD***
Ben Hurlbut, PhD
Professor, School of Life Sciences
Arizona State University
- 5:30 - 7:00 PM **Reception and Poster Presentation**

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 - 11:00 AM **Overview of Regenerative Medicine Efforts at Northern Arizona University & Regulatory CD4+T cells (Treg) attenuate autoimmunity in lethally irradiated mice: exploring the role of radiation resistant hematopoietic stem cells in Treg Reconstitution**
Narendiran Rajasekaran, PhD
Assistant Professor, Department of Chemistry and Biochemistry
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,
iMIRA!

Professor, Department of Applied Physics and Materials Science
Northern Arizona University

11:20 - 11:40 AM

***Overview of Regenerative Medicine Efforts
at BNI & 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