DAY 1 JUNE 10

7:15am-4:00pm Registration open, continental breakfast provided

WELCOME AND OPENING

8:15-8:25am Welcome & Introduction

Joan Schanck MPA

8:25-9:10am Keynote Address

Anthony Atala MD

SESSION 1: PLURIPOTENT STEM CELLS & PROGENITORS

9:10-9:30am Regenerative Medicine: Then and Now

Mahendra Rao PhD

9:30-9:50am Using Stem Cell-Derived 3D Engineered

Cardiac and Skeletal Muslce Tissues for Disease Modeling and Drug Discovery

David Mack PhD

9:50-10:10am The Use of Stem and Progenitor Cells in

Prenatal Therapies

Graca Almeida-Porada MD, PhD

10:10-10:30am Discussion Panel

Moderator: Joshua Maxwell PhD

Break

OPEN EXHIBIT HALL AND NETWORKING

SESSION 2: BIOMATERIALS

10:45-11:05am Scaffolds in Tissue Engineering and

Regenerative Medicine

Paul Dalton PhD

11:05-11:25am Soft Matter for Tissue Engineering

Yadong Wang PhD

11:25-11:45am Immunologic Considerations in

Biomaterial Design and Application

Kaitlyn Sadtler PhD

DAY 1 JUNE 10

SESSION 2: BIOMATERIALS

11:45am-12:05pm Precision Biomaterials: Controlling

Delivery for Tissue Regeneration

Grace Lim PhD

12:05-12:25pm Discussion Panel

Moderator: TBD

Lunch (Room 155)

OPEN EXHIBIT HALL AND NETWORKING

Concurrent Young Scientist Perspectives Session

12:30-1:30pm Career Perspectives Session: RM

Research Careers led by WFIRM Graduate Student Organization

Auditorium

SESSION 3: ENABLING TECHNOLOGIES

1:30-1:50pm Scaling Cell Production and 3D

Bioprinting Towards Whole Organ

Manufacturing

Mark Skylar-Scott PhD

1:50-2:10pm Imaging and Regenerative Medicine

Frank Marini PhD

2:10-2:30pm Gene Therapy and Gene Editing: the

Promise of a Lifelong Cure

Christopher Porada PhD

2:30-2:50pm Biomaterials Systems for Neural

Regenerative Medicine Sarah Stabehfeldt PhD

2:50-3:10pm Human Lung Organ Tissue Equivalents

for Disease Modeling and Drug

Discovery

Sean Murphy PhD

DAY 1 JUNE 10

3:10-3:25pm Discussion Panel

Moderator: Sean Murphy PhD

Break

SESSION 4: CELL THERAPIES

3:40-4:00pm Cell Therapy: A Stroke of Luck

Cesar Borlongan PhD

4:00-4:20pm Cell Therapy For Cardiac Repair

Josh Maxwell PhD

4:20-4:40pm Programmable CRISPR-corrected

Pluripotent Cell Derived Tissue

Replacement Therapies

Anthony Oro PhD

4:40-5:00pm Placental Stem Cell Based Therapy

for Necrotizing Enterocolitis in the

Premature Infant Victoria Weis PhD

5:00-5:15pm Discussion Panel

Moderator: Victoria Weis PhD

5:15-6:15pm

OPENING RECEPTION & NETWORKING, EXHIBIT HALL OPEN

DAY 2

7:15am-4:00pm Registration open, continental breakfast provided

SESSION 5: TISSUE ENGINEERED MEDICAL PRODUCTS

8:15-8:30am Welcome & Day 2 Overview

Joan Schanck

8:30-8:50am Considerations for Developing Tissue

Engineered Medical Products

James Yoo MD, PhD

DAY 2 JUNE 11

SESSION 5: TISSUE ENGINEERED MEDICAL PRODUCTS

8:50-9:10am How We Built From Scratch Our

Commercial Organization to Launch

Humacyte's First Product

BJ Scheessele PhD

9:10-9:30am Animal Models and Strategies for

Craniomacillofacial Defect Repair

Pam Yelick PhD

9:30-9:50am Early Decisions Have Big Impact on the

Development Journey for TEMPs

Michael Hiles PhD

9:50-10:10am Panel Discussion

Moderator: James Yoo MD, PhD

Break

OPEN EXHIBIT HALL AND NETWORKING

SESSION 6: REGULATORY, PROCESS DEVELOPMENT & MANUFACTURING

10:30-10:45am Perspectives on FDA Activities in

Oversight of Regenerative Medicine

Steve Bauer PhD

10:45-11:00am Innovation in Product Testings and

Manufacturing for RM Product

Development

Stephen Sawyer PhD

11:00-11:20am Endpoints for Genomic Therapy Trials in

Hemoglobin Disorders

Mark Walters PhD

11:20-11:40am NIH Clinical Center Perspectives on

Regenerative Medicine Manufacturing

David Stroncek PhD

11:40am-12:00pm Myth or Machine? Using AI in Cell

Therapy Process Development

Alex Sargent PhD

DAY 2 JUNE 11

12:00-12:20pm Space, FDA, and Existing Regulations

Steve Myers PhD

12:20-12:30pm Panel Discussion

Moderator: Stephen Sawyer PhD

Lunch (Room 155)

OPEN EXHIBIT HALL AND NETWORKING

Concurrent Young Scientist Perspectives Session

12:30-1:45pm Career Perspectives Session: RM Auditorium

Research Careers led by WFIRM Graduate Student Organization

SESSION 7: CLINICAL TRIALS AND BIOETHICS

1:45-2:05pm Regenerative Medicine-Bending The Time

and Cost Curve of Clinical Trials

Jennifer Byrne

2:05-2:25pm Who's Getting an Unproven Stem Cell

Therapy Outside a Clinical Trial?

Zubin Master PhD

2:25-2:45pm Challenges to Initiating Cell Therapy

Clinical Trials in Developing Countries

Mahendra Rao PhD

2:45-3:10pm Oxygenerated Perfusates for Cell, Tissue,

and Organ Preservation - Design, Scale Up,

Manufacturing and Translational Consideration

Jelena Janjic PhD and Vijay Gorantla MD, PhD

3:10-3:25pm Panel Discussion

Moderator: TBD

Optional Lab Tours (signup at registration)

DAY 3 JUNE 12

7:15am-4:00pm Registration open, continental breakfast provided

PROGRAM AT A GLANCE

SESSION 8: COMMERCIALIZATION

8:20-8:30am	Welcome & Day 3 Overview Joan Schanck	
8:30-8:50am	Considerations in the Commercialization of Advanced Tissue Products Michael Hiles PhD	
8:50-9:10am	Hard Lessons from Commercializing Neural Microphysiological Systems Michael Moore PhD	
9:10-9:30am	Pro-Regenerative Medical Devices for Improved Outcomes: From Bench to Patients Guillermo Ameer PhD	
9:30-9:50am	TBD (Cartilix, Aegeria) Jennifer Ellisseef PhD	
9:50-10:10am	Discussion Panel Moderator: TBD	
Break		

SESSION 9: DISRUPTIVE TECHNOLOGIES FUELING RM ECOSYSTEMS

10 70 10 /5			
10:30-10:45am	Lessons Learned in Building Innovation		
	Ecosystems in Regenerative Medicine		
	Joshua Hunsberger PhD		
	Jana Stoudemire		
10:45-11:25am	Virtual Reality: From Connecting		
	Innovation Districts to Workforce		
	Development to Telemedicine		
	Josh Tan PhD	Davide Marotta PhD	
	Gail Nolan	Russ Read	
	Mike Wesowski	Jana Stoudemire	
	Joshua Hunsberg	er PhD	
Break			

DAY 3 JUNE 12

11:40am-12:20pm Al: From Training Programs to Building

Digital Twins to Generating IP to Building

Next Generation Products

Russ Read Carrie DiMarzio

Jim Schmidt PhD

Lunch

SESSION 10: THE EMERGING COMMERCIAL SPACE ECONOMY & RM

1:30-2:15pm Space: The Emerging Commercial Space

Economy & Regenerative Medicine

Pinar Mesci PhD Mari Anne Snow

Kobi Koffler PhD Nicole Wagner PhD

Maedeh Mozneb PhD David Lotus PhD

Break

SESSION 11: RM EDUCATIONAL AND WORKFORCE DEVELOPMENT

2:30-2:40pm WFIRM's Training Ecosystem: Past,

Present, Future
Joan Schanck

2:40-2:50pm AAR Training Physicians in Regenology

Angeli Akey MD

2:50-3:00pm Healthcare Workers and

Apprenticeships in RM

Paul Papali PhD

3:00-3:10pm Piedmont Triad Regenerative Medicine

Engine Workforce Development

Russ Read

3:10-3:20pm Graduate Education in RM

Tracy Criswell PhD

3:20-3:35pm Discussion Panel

Moderator: TBD

3:35-3:45pm Closing Remarks

Joan Schanck