

DAY 1**JUNE 11**

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

WELCOME AND OPENING

8:15-8:25am	Welcome & Introduction Joan Schanck MPA	5206/ 5207
8:25-9:00am	Current Concepts and Changing Trends Anthony Atala MD	5206/ 5207

SESSION 1: PLURIPOTENT STEM CELLS & PROGENITORS

9:00-9:20am	Modeling Intellectual Disability Syndromes with Human Induced Pluripotent Stem Cells William Lowry PhD	5206/ 5207
9:20-9:40am	Leveraging Cortical Organoids to Understand Human Brain Development and Cancer Aparna Bhaduri PhD	5206/ 5207
9:40-10:00am	The Use of Stem and Progenitor Cells in Prenatal Therapies Graca Almeida-Porada MD, PhD	5206/ 5207
10:00-10:15am	Discussion Panel Moderator: Victoria Weis PhD	5206/ 5207

Break

OPEN EXHIBIT HALL AND NETWORKING**SESSION 2: BIOMATERIALS**

10:30-10:50am	Regenerative Biomaterials: Enabling Pro-Regenerative Devices Guillermo Ameer PhD	5206/ 5207
10:50-11:10am	Injectable and 3D-printable Hydrogels for Tissue Engineering Tony Mikos PhD	5206/ 5207

DAY 1**JUNE 11****SESSION 2: BIOMATERIALS**

11:10-11:30am	ECM-inspired mechanically mimetic scaffolds for mechanobiology modeling Jane Grande-Allen PhD	5206/ 5207
11:30-11:50am	Synthetic & Natural Biodegradable Biomaterials for Tissue Engineering Applications Young Min Ju PhD	5206/ 5207
11:50am- 12:05pm	Discussion Panel Moderator: Joan Schanck	5206/ 5207

Lunch

OPEN EXHIBIT HALL AND NETWORKING**SESSION 3: ENABLING TECHNOLOGIES**

1:00-1:20pm	3D Printing Technologies for Functional Tissue and Organ Replacement Sang Jin Lee PhD	5206/ 5207
1:20-1:40pm	Understanding & Re-Writing Cellular & Molecular Programs Within Skeletal Muscle Carlos Aguilar PhD	5206/ 5207
1:40-2:00pm	Imaging and Regenerative Medicine Frank Marini PhD	5206/ 5207
2:00-2:20pm	Gene Therapy and Gene Editing: The Promise of a Lifelong Cure Christopher Porada PhD	5206/ 5207
2:20-2:40pm	Human Lung Organ Tissue Equivalents for Disease Modeling & Drug Discovery Sean Murphy PhD	5206/ 5207
2:40-2:55pm	Discussion Panel Moderator: Sean Murphy PhD	5206/ 5207

DAY 1**JUNE 11**

Break

OPEN EXHIBIT HALL AND NETWORKING**SESSION 4: CELL THERAPIES**

3:15-3:35pm	Contemplating Novel Mechanisms of Action for Clinical Translation of Allogenic Cellular Therapeutics Robert (Willie) Mays PhD	5206/ 5207
3:35-3:55pm	Human iPSCs and Cardiac Therapy Chunhui Xu PhD	5206/ 5207
3:55-4:15pm	Placental Stem Cell Based Therapy for Necrotizing Enterocolitis in the Premature Infant Victoria Weis PhD	5206/ 5207
4:15-4:35pm	Regenerative Surgery and Stem Cell Therapies Vijay Gorantla MD, PhD	5206/ 5207
4:35-4:55pm	mRNA Technology: Disruptor in RM, Cell-based Approaches and Immune Modulation Norman Drzeniek MD, PhD	5206/ 5207
4:55-5:15pm	Discussion Panel Moderator: Joshua Maxwell, PhD	5206/ 5207

5:15-6:30pm

OPENING RECEPTION & NETWORKING, EXHIBIT HALL OPEN**DAY 2****JUNE 12**

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	5206/ 5207
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DAY 2**JUNE 12****SESSION 5: TISSUE ENGINEERED MEDICAL PRODUCTS**

8:30-8:50am	Considerations for Developing Tissue Engineered Medical Products James Yoo MD, PhD	5206/ 5207
8:50-9:10am	What's Lost in Translation? Jennifer Elisseeff, PhD	5206/ 5207
9:10-9:30am	Tissue Engineering Beyond Regenerative Medicine Gabor Forgacs PhD	5206/ 5207
9:30-9:45am	Discussion Panel Moderator: James Yoo MD, PhD	5206/ 5207

Break

OPEN EXHIBIT HALL AND NETWORKING**SESSION 6: REGULATORY, PROCESS DEVELOPMENT & MANUFACTURING**

10:00-10:30am	FDA Efforts to Advance Cell & Gene Therapy Development Peter Marks MD, PhD	5206/ 5207
10:30-10:45am	Innovation in Product Testing and Manufacturing for RM Product Development Steve Bauer PhD	5206/ 5207
10:45-11:00am	TBA Kenneth Witwer PhD	5206/ 5207
11:00-11:15am	Federal efforts to support Regenerative Medicine and the Era of Artificial Intelligence Martha Lundberg PhD	5206/ 5207
11:15-11:30am	Space, FDA and Existing Regulations Jana Stoudemire	5206/ 5207

DAY 2**JUNE 12****SESSION 6: REGULATORY, PROCESS DEVELOPMENT & MANUFACTURING**

11:30-11:45am	Discussion Panel Steve Bauer PhD	5206/ 5207
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Lunch

OPEN EXHIBIT HALL AND NETWORKING**Concurrent Young Scientist Perspectives Session**

11:45am-1:00pm	Career Perspectives Session: RM Research Careers led by WFIRM Graduate Student Organization	5203/ 5205
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SESSION 7: RM AND BIOMANUFACTURING IN SPACE: A NEW FRONTIER

1:00-1:55pm	This session introduces participants how the microgravity conditions of space offer profound opportunities for the RM field and advanced biomanufacturing.	5206/ 5207
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Anthony Atala MD**Anna Brady-Estevez PhD****Kevin Engelbert PhD****Davide Marrotta PhD****Jana Stoudemire**

1:55-2:15pm	Discussion Panel Moderator: Jana Stoudemire	5206/ 5207
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Break

SESSION 8: HEALTH DISPARITIES, GENDER EQUITY & RM

2:30-2:45pm	Reducing Health Disparities and Advancing Equity in Regenerative Medicine	5206/ 5207
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Monica Webb-Hooper PhD

2:45-3:00pm	Gender Disparities in Health Equity and Health Care	5206/ 5207
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Allison Caban-Holt PhD

DAY 2**JUNE 12****SESSION 8: HEALTH DISPARITIES, GENDER EQUITY & RM**

3:00-3:15pm	Health Disparities In The Vasculature: Implications For Regenerative Medicine Alisa Morris-Clyne PhD	5206/ 5207
3:15-3:30pm	Factors Impacting Access to Novel Cell-based Therapies: A Case Study of Platelet-rich Plasma to Treat Knee Osteoarthritis Zubin Master PhD	5206/ 5207
3:30-3:45pm	Discussion Panel Moderator: Tracy Criswell PhD	5206/ 5207
Break		

SESSION 9: SPECIAL TOPIC - REGENERATIVE REHABILITATION WITH AR3T

4:00-4:10pm	Regenerative Rehabilitation: an Introduction Kaitlin Geran	5206/ 5207
4:10-4:30pm	Combined Structured Treadmill Walking and Neural Stem Cell Therapy Improves Traumatic Brain Injury Recovery in a Pediatric Porcine Model Franklin West PhD	5206/ 5207
4:30-4:50pm	Scar-Free Ligament Healing: Lessons from the Highly Regenerative Zebrafish Joanne Smeeton PhD	5206/ 5207
4:50-5:10pm	Discussion Panel Moderator: Kaitlin Geran	5206/ 5207
5:15-6:30pm		

Evening Reception and Networking

DAY 3**JUNE 13****SESSION 10: CLINICAL TRIALS AND BIOETHICS**

8:15-8:30am	Welcome & Day 3 Overview Joan Schanck	5206/ 5207
8:30-8:50am	TBA Doris Taylor PhD	5206/ 5207
8:50-9:10am	Transitioning from Bench to Clinic: Planning for Clinical Research Success Will Combs MBA	5206/ 5207
9:10-9:30am	How to Translate Lessons Learned at the Bench into Successful Cell Therapy Based Clinical Trials Robert (Willie) Mays PhD	5206/ 5207
9:30-9:50am	Who's getting an unproven stem cell therapy outside a clinical trial? Zubin Master PhD	5206/ 5207
9:50-10:15am	Discussion Panel Moderator: Tracy Criswell PhD	5206/ 5207

SESSION 11: COMMERCIALIZATION

10:30-10:50am	Early Considerations in the Development and Commercialization of Advanced Tissue Repair Michael Hiles PhD	5206/ 5207
10:50-11:10am	Translation of Biodegradable Nerve Guides into Humans: Challenges and Opportunities Kacey Marra PhD	5206/ 5207
11:10-11:30am	Commercialization from Cells to Organs: What I Now See 25 Years Later Doris Taylor PhD	5206/ 5207

DAY 3

JUNE 13

11:30-11:50am Discussion Panel 5206/
 Moderator: Graca Almeida-Porada MD, PhD 5207

Lunch

Optional Lab Tours (signup at registration)

SESSION 12: LESSONS LEARNED IN BUILDING INNOVATION ECOSYSTEMS IN REGENERATIVE MEDICINE

1:15-2:15pm This session introduce participants to 5206/
 lessons learned in building innovation 5207
 ecosystems from different regions including
 Boston, North Carolina & San Diego.
 Joshua Hunsberger PhD (ReMDO)
 Jana Stoudemire (Axiom Space)
 Nancy Johnson (NC Biotechnology Center)
 Joe Panetta (Biocom)
 Travis McCreedy (Americas Markets)
 Jason Kaplan (Innovation Quarter)

2:15-2:30pm Discussion Panel 5206/
 Moderator: Joshua Hunsberger 5207

Break

SESSION 13: RM, EDUCATIONAL AND WORKFORCE DEVELOPMENT

2:40-2:50pm Connecting the Dots: An Educational 5206/
 Ecosystem for Regenerative Medicine 5207
 Russ Read

2:50-3:00pm WFIRM's Training Ecosystem: Past, 5206/
 Present, Future 5207
 Joan Schanck MPA

3:00-3:10pm Graduate Education in Tissue 5206/
 Engineering and Regenerative 5207
 Medicine
 Tracy Criswell PhD

SESSION 13: RM, EDUCATIONAL AND WORKFORCE DEVELOPMENT

3:10-3:40pm	Required Elements for Training and Education of the Regenerative Medicine Skilled Technical Worker and Non-Technical Work Russ Read	5206/ 5207
3:40-3:50pm	Cultural Intelligence in the Workforce Del Ruff	5206/ 5207
3:50-4:00pm	TBA Kathleen O'Neil-Smith MD	5206/ 5207
4:00-4:10pm	AAR Training Physicians in Regenology Angeli Akey MD, FACP	5206/ 5207
4:10-4:20pm	Discussion Panel Moderator: Russ Read	5206/ 5207
4:20-4:30pm	Wrap-Up/Closing Remarks Joan Schanck	5206/ 5207