

WEDNESDAY, NOVEMBER 28, 2018

5:00–8:00 p.m.

Registration & Welcome Reception

Northern Sky Terrace (light appetizers and drinks will be served)

THURSDAY, NOVEMBER 29, 2018

8:00–8:50 a.m.

Complimentary Breakfast - Registration Open

Herberger 3

8:50–9:00 a.m.

Welcome & Overview of the Symposium

Richard Hayden, M.D., Mayo Clinic, Symposium Director

9:00–9:30 a.m.

Mayo Clinic Welcomes the Future of Health Care

Wyatt Decker, M.D., Mayo Clinic

Andre Terzic, M.D., Ph.D., Mayo Clinic

9:30–10:15 a.m.

Regenerative Medicine: A Patient Perspective

Atta Behfar, M.D., Ph.D., Mayo Clinic

10:15–10:30
a.m.

Break

10:30–10:35
a.m.

Regenerative Medicine Breakthroughs

Moderator: Mark Pagnano, M.D., Mayo Clinic

10:35–11:10
a.m.

Regenerative Immunotherapy (CAR–T) Panel Discussion

Nora Bennani, M.D., Mayo Clinic, Januario Castro, M.D., Mayo Clinic, John Copland, III, Ph.D., Mayo Clinic, and Saad Kenderian, M.D., Mayo Clinic

11:10–11:15
a.m.

Transition

11:15 –12:00
p.m.

Skin Regeneration in Patients with Epidermolysis Bullosa (EB)

M. Peter Marinkovich, M.D., Stanford University

12:00–12:05

Question & Answer Session

p.m.	
12:05–1:00 p.m.	Lunch Northern Sky Terrace
1:00–1:15 p.m.	Prenatal Regenerative Intervention Rodrigo Ruano, M.D., Ph.D., Mayo Clinic
1:15–1:30 p.m.	Regenerative Therapy in Pediatric Care Timothy Nelson, M.D., Ph.D., Mayo Clinic
1:30–1:45 p.m.	Question & Answer Session
1:45–1:50 p.m.	Regenerative Intervention Spotlight Session Moderators: Paul Andrews, M.D., Mayo Clinic
1:50–2:15 p.m.	Arizona: Larynx Regeneration–Surgical Innovation and Regenerative Science Richard Hayden, M.D., Mayo Clinic and David Lott, M.D., Mayo Clinic
2:15–2:40 p.m.	Florida: The First 500 Patients–Regenerative Medicine Therapy Suites Shane Shapiro, M.D., Mayo Clinic and Jennifer Arthurs, A.R.N.P., Mayo Clinic
2:40–2:50 p.m.	Question & Answer Session
2:50–3:00 p.m.	Break
3:00–3:05 p.m.	Rapid Fire Clinical Trials Session 1 Moderators: Atta Behfar, M.D., Mayo Clinic and David Lott, M.D., Mayo Clinic
3:05–3:10 p.m.	RECLAIM: A Phase I Safety and Feasibility Trial of REcycled Cartilage Auto/Allo IMplantation for the Treatment and Repair of Focal Knee Cartilage Defects Aaron Krych, M.D., Mayo Clinic
3:10–3:15 p.m.	CELLTOP: Phase I Clinical Trial of Autologous Adipose Derived Mesenchymal Stem Cells in the Treatment of Paralysis due to Traumatic Spinal Cord Injury Mohammed Alvi, M.B.B.S., Mayo Clinic
3:15–3:20 p.m.	A Phase I Study of Autologous Mesenchymal Stromal Cell Coated Fistula Plug in

	<p>Patients with Rectovaginal Fistulizing Crohn's Disease Amy Lightner, M.D., Mayo Clinic</p>
3:20–3:25 p.m.	<p>Safety and Feasibility of Mesenchymal Stem Cell Therapy in Patient with Recent Intracerebral Hemorrhage Abba Zubair, M.D., Ph.D., Mayo Clinic</p>
3:25–3:50 p.m.	<p>Question & Answer Session</p>
3:50–4:00 p.m.	<p>Adjourn</p>
4:00–7:00 p.m.	<p>Conference Reception Marshall Outpost Pavilion</p>
<p>FRIDAY, NOVEMBER 30, 2018</p>	
7:30–8:15 a.m.	<p>Complimentary Breakfast Herberger 3</p>
8:15–8:20 a.m.	<p>Welcome & Overview of Day 2 Richard Hayden, M.D., Mayo Clinic</p>
8:20–8:25 a.m.	<p>Accelerating Therapies to Application Moderator: TBD – Mayo Clinic</p>
8:25–8:55 a.m.	<p>Plenary Session: Balancing Safety & Innovation for Regenerative Medicine Therapies Carolyn Yong, Ph.D., Office of Tissues and Advanced Therapies U.S. FDA</p>
8:55–9:15 a.m.	<p>Learning from Global Advancements in Regenerative Medicine: The European Perspective Daniel Saris, M.D., Ph.D., Mayo Clinic</p>
9:15–9:35 a.m.	<p>Maximizing Your Industry Partnerships to Accelerate Therapies to Practice Richard McFarland, Ph.D., M.D., ARMI BioFabUSA</p>
9:35–9:50 a.m.	<p>Question & Answer Session</p>

9:50–10:00 a.m.	Break
10:00–10:35 a.m.	Early Stage Clinical Development Timothy O'Brien, M.D., National University of Ireland, Ireland Regenerative Medicine Institute (REMEDI)
10:35–10:45 a.m.	Question & Answer Session
10:45 –10:50 a.m.	Enterprise Translational Capabilities Moderators: Atta Behfar, M.D., Mayo Clinic and William Morice, II, M.D., Ph.D., Mayo Clinic
10:50 –11:25 a.m.	Product Development and Manufacturing Panel Discussion Michael Yaszemski, M.D., Ph.D., Mayo Clinic Mike Gustafson, Ph.D., Mayo Clinic Jane Matsumoto, M.D., Mayo Clinic Zachary Resch, Ph.D., Mayo Clinic Pamela Vetter, M.B.A., Mayo Clinic
11:25–11:30 a.m.	Transition
11:30–11:35 a.m.	Enterprise Translation Capabilities Part 2 Moderator: Atta Behfar, M.D., Mayo Clinic
11:35–12:00 p.m.	Translation Into Practice Platforms Panel Discussion Amy Lightner, M.D., Mayo Clinic Danielle Grandjean, Ph.D., Mayo Clinic Shane Shapiro, M.D., Mayo Clinic Mark Wentworth, Mayo Clinic Pamela Vetter, M.B.A., Mayo Clinic
12:00–1:00 p.m.	Lunch Northern Sky Terrace
1:00–1:05 p.m.	Rapid Fire Clinical Trials Session 2

	Moderators: Atta Behfar, M.D., Mayo Clinic and David Lott, M.D., Mayo Clinic
1:05–1:10 p.m.	A Phase II Study of Intrathecal Autologous Adipose–derived Mesenchymal Stromal Cells for Amyotrophic Lateral Sclerosis Nathan Staff, M.D., Ph.D., Mayo Clinic
1:10–1:15 p.m.	Phase I Study of Autologous Mesenchymal Stem Cells in the Treatment of Atherosclerotic Renal Artery Stenosis Stephen Textor, M.D., Mayo Clinic
1:15–1:20 p.m.	Double Blind, Phase I, Randomized, Parallel Group Study of Hip Decompression Compared to Hip Decompression Supplemented at the Point of Care with Adipose Derived Regenerative Cells for Bilateral Pre–Collapse Femoral Head Osteonecrosis Cody Wyles, M.D., Mayo Clinic
1:20–1:25 p.m.	A Study Evaluating Intraoperative Application of Platelet–Rich Plasma to the Neurovascular Bundles During Nerve–Sparing Radical Prostatectomy: Initial Technical Description and Prospective Early Postoperative Outcomes Analysis Matthew Gettman, M.D., Mayo Clinic
1:25–1:30 p.m.	Regenerative Science and the Aging Face Brittany Howard, M.D., Mayo Clinic
1:30–1:35 p.m.	Advanced Biomarker Assessment of Adipose Derived Stem Cells and Fibroblasts in Patients with and without Pelvic Organ Prolapse Jeffrey Cornella, M.D., Mayo Clinic
1:35–1:40 p.m.	Human Skin Fibroblast and Lymphocyte–derived Induced Pluripotent Stem Cells (iPS) and Their Use in Studying Alzheimer’s Disease (AD) and Other Neurodegenerative Disorders Takahisa Kanekiyo, M.D., Ph.D., Mayo Clinic
1:40–1:55 p.m.	Question & Answer Session
1:55–2:15 p.m.	Break

2:15–2:20 p.m.	Interactive How to Sessions Moderator: Karen Hedin, Ph.D., Mayo Clinic
2:20–2:40 p.m.	How to Maximize Your Training Experience for a Research Scientist Career Jennifer Westendorf, Ph.D., Mayo Clinic
2:40–3:00 p.m.	How to Maximize Your Regenerative Medicine Education Saranya Wyles, M.D., Ph.D., Mayo Clinic
3:00–3:20 p.m.	How to Maximize Ethics–Based Decision Making in Regenerative Medicine Zubin Master, Ph.D., Mayo Clinic
3:20–3:35 p.m.	Question & Answer Session
3:35–3:40 p.m.	Business Strategy and Innovation Moderator: TBD - Mayo Clinic
3:40–4:25 p.m.	Business Strategy in Regenerative Medicine Panel Discussion Mark Koch, M.B.A., CPME, Mayo Clinic James Rogers, III J.D., Mayo Clinic Jade Sadosty, Mayo Clinic
4:25–4:30 p.m.	Adjourn
4:30–6:00 p.m.	Poster Session Herberger 3 (appetizers and beverages will be served)

SATURDAY, DECEMBER 1, 2018

8:00–8:30 a.m.	Complimentary Breakfast Herberger 3
8:30–8:35 a.m.	Welcome & Overview of Day 3 Richard Hayden, M.D., Mayo Clinic
8:35–8:40 a.m.	Regenerative Discoveries – Cellular Regenerative Medicine Moderators: Anthony Windebank, M.D., Mayo Clinic and Guojun Bu, Ph.D., Mayo Clinic

8:40–8:50 a.m.	Discovery & Regenerative Therapy Using iPSC Technology Guojun Bu, Ph.D., Mayo Clinic
8:50–9:00 a.m.	Systems Biology and Regenerative Medicine Xiaojun Tian, Ph.D., Arizona State University
9:00–9:10 a.m.	Metabolic Determinants of Stem Cell Fate Clifford Folmes, Ph.D., Mayo Clinic
9:10–9:20 a.m.	Amnion Derived Stem-like Cells in Lung Repair Rebecca Lim, Ph.D., Monash University
9:20–9:30 a.m.	Regenerative Endocrinology Quinn Peterson, Ph.D., Mayo Clinic
9:30–9:40 a.m.	Cell Therapy Approaches to Pediatric Brain Cancer Cynthia Wetmore, M.D., Ph.D., Phoenix Children’s Hospital
9:40–9:50 a.m.	Question & Answer Session
9:50–10:00 a.m.	Break
	Regenerative Discoveries – Acellular & Tissue Engineering Approaches to Regenerative Medicine Moderators: Anthony Windebank, M.D., Mayo Clinic and Guojun Bu, Ph.D., Mayo Clinic
10:00–10:10 a.m.	Nanoparticle Based Strategies Tony Hu, Ph.D., Arizona State University
10:10–10:20 a.m.	Extracellular Vesicles in Liver Injury Repair Tushar Patel, M.B. Ch.B., Mayo Clinic
10:20–10:30	Disruptive Therapies in Regenerative Medicine

a.m.	Michael Callahan, M.D., Harvard Medical School
10:30–10:45 a.m.	Question & Answer Session
10:45–10:50 a.m.	Transition
10:50–11:00 a.m.	Biologic Polymer Technology for Wounded Warriors Michael Yaszemski, M.D., Ph.D., Mayo Clinic
11:00–11:10 a.m.	Biological Scaffold in Cardiac Regeneration Leigh Griffiths, Ph.D., MRCVS, Mayo Clinic
11:10–11:20 a.m.	Forward and Reverse Engineering to Understand Biology in Regenerative Medicine Xiao Wang, Ph.D., Arizona State University
11:20–11:30 a.m.	Engineering and Regenerative Medicine Mark Wehde, M.S., M.B.A., Mayo Clinic
11:30–11:40 a.m.	Question & Answer Session
	Closing Session Moderator: Richard Hayden, M.D., Mayo Clinic
11:40 –12:00 p.m.	What Lies Ahead in the Future of Regenerative Medicine David Lott, M.D., Mayo Clinic
12:00–12:15 p.m.	Closing Comments Richard Hayden, M.D., Mayo Clinic
12:15 p.m.	Lunch Herberger 3 Foyer Grab and Go Boxed Lunches

