RegenBio Summit: Transforming Next-Gen Biotherapeutics 2024

Ponte Vedra Beach, Florida December 9, 2024 to December 11, 2024 Eastern Standard Time

Day 1	Monday, December 9, 2024
8:00 AM	Breakfast, Registration & Exhibits
9:00 AM	Welcome Announcements Julie G. Allickson, Ph.D. and Saranya P. Wyles, M.D., Ph.D.
9:10 AM	Welcome to Mayo Clinic Florida Kent R. Thielen, M.D.
9:15 AM	Keynote: Regulating Regenerative Therapies from IND to BLA Peter Marks, M.D., Ph.D.
10:00 AM	Fireside Chat: Mistakes and Lessons Learned from FDA CBER Director's Desk. An Insight into Accelerated Approval Pathways Moderator: Julie G. Allickson, Ph.D. Panelist: Peter Marks, M.D., Ph.D.
10:30 AM	Laryngeal Transplantation and Regeneration: Breaking the Silence David G. Lott, M.D.
11:00 AM	Regenerative Transplantation: A New Paradigm Giuseppe Orlando, M.D., Ph.D.
11:30 AM	Lunch

12:30 PM	7 advances in CAR-T cell therapy at Mayo Clinic Inside Mayo Clinic Research Hong Qin, M.D., Ph.D.
1:00 PM	Fireside Chat: Impact of Generative Artificial Intelligence on Cell and Gene Therapy Moderator: Peter A. Noseworthy, M.D., M.B.A. Panelist: Rickey E. Carter, Ph.D.
	Regenerative Orthopedics and Musculoskeletal: From Care to Cure Moderator: Daniel B. F. Saris, M.D., Ph.D.
1:30 PM	Hip RECLAIM: A Phase I Safety and Feasibility Trial of REcycled CartiLage Auto/Allo IMplantation for the Treatment and Repair of Focal Hip Cartilage Defects Daniel B. F. Saris, M.D., Ph.D.
1:45 PM	Regenerative Medicine Clinical Trials in Sports Medicine and Orthopedics Brennan J. Boettcher, D.O.
2:00 PM	Clinical Regenerative Medicine at Mayo Clinic Shane A. Shapiro M.D.
2:15 PM	Break and Exhibits
	Tissue Engineering Session Moderators: David G. Lott, M.D.
2:45 PM	Plenary Highlight: Can We Grow a Personalized Heart Doris Taylor, Ph.D.

3:15 PM	3D Bioprinting Skin Saranya P. Wyles, M.D., Ph.D.
3:30 PM	Fireside Chat: Exosomes, Are We There Yet? Moderator: Abba Zubair M.D. Ph.D. Panelist: Atta Behfar, M.D., Ph.D., and Jon Rowley Ph.D.
3:45 PM	Defining the Issues: Approaches to Centralized, Decentralized, and Point of Care Manufacturing of Regenerative Medicine Products Richard McFarland, Ph.D., M.D.
4:15 PM	Day 1 Closing Comments
4:30 PM	Adjourn
5:15 PM	Welcome Reception Women in Translational Science Award

Day 2	Tuesday, December 10, 2024
8:00 AM	Breakfast and Exhibits
8:00 AM	Breakfast with Experts
	FDA Unveiled: Navigating U.S. Regulations and Regulators Drew M. Witter, M.S., RAC
	Harmonizing Excellence: A Global Odyssey to Meet GMP Requirements Craig Hasilo
	Precision Engineering of Regenerative Biotherapeutics: A Focus on Process Development and Biomanufacturing Cynthia E. Wilkins, Ph.D.
	Precision Engineering of Regenerative Biotherapeutics: A Focus on Process Development and Biomanufacturing Snigdha Rai
	Building a Culture of Quality: The Role of QA and QC Tony W. DeFusco
	Building a Culture of Quality: The Role of QA and QC Cameron E. Jones
9:00 AM	From the Desk of Mayo Clinic Center for Regenerative Biotherapeutics Medical Director William Faubion, M.D.
9:30 AM	Panel: Ethics in Gene Therapy Moderators: Michelle McGowan, Ph.D. Panelist: Megan Allyse, Ph.D., and Scott Wright M.D.

10:00 AM	Break & Exhibits
10:30 AM	Keynote: Trial of Beremagene Geperpavec (B-VEC) for Dystrophic Epidermolysis Bullosa – First FDA-Approved Topical Gene Therapy M. Peter Marinkovich, M.D.
11:00 AM	Fireside Chat: Mistakes and Lessons Learned From Startups. An Insight into the Success Path of Krystal Biotech, Inc. Moderator: Saranya P. Wyles, M.D., Ph.D. Panelist: M. Peter Marinkovich, M.D.
11:20 AM	Addressing Challenges in Translation of Cell and Gene Therapy Uma Lakshmipathy Ph.D.
11:40 AM	Mayo MedTech Accelerator: The Future of Cell and Gene Therapy Marianne van der Steen, Ph.D.
12:00 PM	Lunch/Exhibits
	Cell and Gene Therapy Plenary Moderator: Sanjay Misra, M.D.
1:00 PM	Role of Stem Cells in Vascular Injury Sanjay Misra, M.D.
1:15 PM	The Allure of Biomanufacturing Tregs for Inflammatory Bowel Disease William Faubion, M.D.
1:30 PM	CELLTOP: An Update from Autologous Adipose Derived Mesenchymal Stem Cells in the Treatment of Paralysis Due to Traumatic Spinal Cord Injury Mohamad Bydon, M.D.

1:45 PM	Tumor-Agnostic Cellular Therapies Michael Gustafson Ph.D.
2:00 PM	An Autologous Dendritic Cell Vaccine Targeting Folate Receptor Alpha in Patients with Ovarian Cancer Matthew S. Block, M.D., Ph.D.
2:15 PM	Panel Discussion Moderators: William Faubion, M.D. and Sanjay Misra, M.D. Panelist: Session Presenters
2:30 PM	Fireside Chat: Next Gen Workforce Development Maggie A. DiGuardo, M.D., Saranya P. Wyles, M.D., Ph.D., Elena Maryamchik, M.D., M.B.A.
3:00 PM	Break and Exhibits
	Showcase: Mayo Clinic Florida Moderators: Wenchun Qu, M.D., Ph.D.
3:30 PM	Beyond the Clinic: The Impact of Mayo Clinic Florida Center for Regenerative Biotherapeutics Alfredo Quinones-Hinojosa, M.D., Brian Hultgren
3:45 PM	Differentiation of Human Induced Pluripotent Stem Cells to Functional Brain Cells Tsuneya Ikezu, M.D., Ph.D.
4:00 PM	Mayo Clinic RNA Discovery and Therapeutics Program: Premise, Promise and Progress Nilufer Taner, M.D., Ph.D.

4:15 PM	Aptamers: Unlocking the Potential of Immunotherapy and Regenerative Medicine Abba Zubair, M.D., Ph.D.
4:30 PM	Regenerative Clinical Trial Portfolio (Non-engineered Cell Therapy) Moderated Discussion Moderators: Abba Zubair, M.D., Ph.D. Panelist: Wenchen Qu, M.D., Ph.D Regenerative Rehabilitation LaTonya J Hickson, M.D. – Regenerative Nephrology Sanjeet S. Grewal, M.D. – Regenerative Neurology Katherine J. Bodiford, M.D. – Regenerative Dermatology Sam Farres, M.D. – Regenerative Vascular Surgery
5:00 PM	Closing and Adjourn
5:05 PM	Poster Session & Networking
6:00 PM	Adjourn

Day 3	Wednesday, December 11, 2024
8:00 AM	Breakfast and Exhibits
9:00 AM	Opening Remarks Saranya P. Wyles, M.D., Ph.D., and Praneetha R. Elugunti, M.H.A., M.B.A.
9:05 AM	Keynote: Exploring the Promise of CRISPR Therapeutics In Vivo and Cell Therapy Applications Birgit Schultes, Ph.D.
9:35 AM	Fireside Chat: Mistakes and Lessons Learned from Startups. An insight into the success Path of Intellia Therapeutics, Inc. Moderator: Laura J. Lambert, Ph.D. Panelist: Birgit Schultes Ph.D.
10:05 AM	Plenary Highlight: Transforming Lives with Personalized Cancer Therapies Introduction: Alina R. Oancea Speaker: Bruce Levine, Ph.D.
10:35 AM	Mayo Clinic Highlight: New Directions in Engineered Cell Therapy Saad J. Kenderian, M.B., Ch.B.
11:05 AM	Fireside Chat: Immunotherapy Moderator: Saad J. Kenderian, M.B., Ch.B. Panelist: Mohamed A. Kharfan Dabaja, M.D., M.B.A.
11:20 AM	Fireside Chat: Patient Access for Cell and Gene Therapies – Challenges and Future Solutions Moderator: Julie Allickson, PhD Panelist: Saad J. Kenderian, M.B., Ch.B., Ph.D. and Bruce L. Levine, Ph.D.

11:45 AM	Healthcare Innovation – Discussion Gloria R. Olivier, Ph.D., Rupa Pike, Ph.D., Sarah Creviston, Daniel Cushing Ph.D.
12:10 PM	Lunch & Exhibits
	iPSC Therapy Plenary Moderator: Zachary Resch, Ph.D.
1:10 PM	A Vision to Grow Stem Cells into Retinal Pigment Epithelium (RPE) for Eyesight Kapil Bharti, Ph.D.
1:25 PM	The Path to a Cure for Type 1 Diabetes: What's Next in Cell Therapy and Beyond? Quinn P. Peterson, Ph.D.
1:40 PM	Closer to Precision Cardiology With iPSCs Max Gnecchi M.D. Ph.D.
1:55 PM	IPSC-Derived Cardiac Lineages For Heart Repair in Congenital Heart Disease Timothy Nelson, M.D., Ph.D.
2:10 PM	Panel Discussion: iPSC Moderator: Dennis Wigle, M.D., Ph.D. Panelist: Session Presenters
2:25 PM	Closing Remarks Julie G. Allickson, Ph.D., and Saranya P. Wyles, M.D., Ph.D.
2:30 PM	Adjourn