RegenBio Summit: Transforming Next-Gen Biotherapeutics 2024 Ponte Vedra Beach, Florida December 9-11, 2024 Eastern Standard Time

Monday, December 9, 2024

| 8:00 a.m. | Registration, Breakfast and Exhibits |
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| 9:00 a.m. | Welcome Announcements Julie G. Allickson, Ph.D. and Saranya P. Wyles, M.D., Ph.D. |
| 9:10 a.m. | Welcome to Mayo Clinic Florida Kent R. Thielen, M.D. |
| 9:15 a.m. | Keynote: Regulating Regenerative Therapies from IND to BLA Peter Marks, M.D., Ph.D. |
| 10:00 a.m. | 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 a.m. | Laryngeal Transplantation and Regeneration: Breaking the Silence David G. Lott, M.D. |
| 11:00 a.m. | Regenerative Transplantation: A New Paradigm Giuseppe Orlando, M.D., Ph.D. |
| 11:30 a.m. | Lunch and Exhibits |
| 12:30 p.m. | 7 Advances in CAR-T Cell Therapy at Mayo Clinic Hong Qin, M.D., Ph.D. |
| 1:00 p.m. | 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. |
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| 1:30 p.m. | 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 p.m. | Regenerative Medicine Clinical Trials in Sports Medicine and Orthopedics Brennan J. Boettcher, D.O. |
| 2:00 p.m. | Clinical Regenerative Medicine at Mayo Clinic Shane A. Shapiro M.D. |
| 2:15 p.m. | Break and Exhibits |
| | Tissue Engineering Session Moderator: David G. Lott, M.D. |
| 2:45 p.m. | Plenary Highlight: Can We Grow a Personalized Heart Doris Taylor, Ph.D. |
| 3:15 p.m. | 3D Bioprinting Skin Saranya P. Wyles, M.D., Ph.D. |
| 3:30 p.m. | 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 p.m. | Defining the Issues: Approaches to Centralized, Decentralized, and Point of Care Manufacturing of Regenerative Medicine Products Richard McFarland, Ph.D., M.D. |
| 4:00 p.m. | Closing Comments and Women in Translational Science Award |
| 4:15 p.m. | Adjourn |
| 5:15 p.m. | Welcome Reception |

Tuesday December 10, 2024

8:00 a.m. **Breakfast and Exhibits**

8:00 a.m. **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 a.m. From the Desk of Mayo Clinic Center for Regenerative Biotherapeutics

Medical DirectorWilliam Faubion, M.D.

9:15 a.m. Panel: Ethics in Gene Therapy

Moderators: Michelle McGowan, Ph.D.

Panelist: Megan Allyse, Ph.D., and Scott Wright M.D.

9:45 a.m. **Break and Exhibits**

10:15 a.m. Keynote: Trial of Beremagene Geperpavec (B-VEC) for Dystrophic

Epidermolysis Bullosa - First FDA-Approved Topical Gene Therapy

M. Peter Marinkovich, M.D.

10:45 a.m. 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.

11:05 a.m. Addressing Challenges in Translation of Cell and Gene Therapy

Uma Lakshmipathy Ph.D.

| 11:15 a.m. | Platelet-Derived Exosomes as a Regenerative Medicine Therapeutic: A Look Back on Translation from Bench Bedside Chris Paradise, Ph.D. | | |
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| 11:45 a.m. | Lunch and Exhibits | | |
| | Cell and Gene Therapy Plenary Moderator: Sanjay Misra, M.D. | | |
| 12:45 p.m. | Role of Stem Cells in Vascular Injury Sanjay Misra, M.D. | | |
| 1:00 p.m. | The Allure of Biomanufacturing Tregs for Inflammatory Bowel Disease William Faubion, M.D. | | |
| 1:30 p.m. | 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 p.m. | Tumor-Agnostic Cellular Therapies Michael Gustafson Ph.D. | | |
| 2:00 p.m. | An Autologous Dendritic Cell Vaccine Targeting Folate Receptor Alpha in Patients with Ovarian Cancer Matthew S. Block, M.D., Ph.D. | | |
| 2:15 p.m. | Panel Discussion Moderators: William Faubion, M.D. and Sanjay Misra, M.D. Panelist: Session Presenters | | |
| 2:30 p.m. | 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 p.m. | Mayo MedTech Accelerator: Current State and Incorporation of CGT Steven J. Lester, M.D. | | |
| 3:10 p.m. | Break and Exhibits | | |
| | Showcase: Mayo Clinic Florida Moderator: Wenchun Qu, M.D., Ph.D. | | |
| 3:30 p.m. | Beyond the Clinic: The Impact of Mayo Clinic Florida Center for Regenerative Biotherapeutics Alfredo Quinones-Hinojosa, M.D., and Brian Hultgren | | |
| 3:45 p.m. | Differentiation of Human Induced Pluripotent Stem Cells to Functional Brain Cells Tsuneya Ikezu, M.D., Ph.D. | | |
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4:00 p.m. Mayo Clinic RNA Discovery and Therapeutics Program: Premise,

Promise and ProgressNilufer Taner, M.D., Ph.D.

4:15 p.m. Aptamers: Unlocking the Potential of Immunotherapy and Regenerative

Medicine

Abba Zubair, M.D., Ph.D.

4:30 p.m. 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 p.m. Closing and Adjourn

5:05 p.m. Poster Session and Networking

6:00 p.m. Adjourn

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| 8:00 a.m. | Breakfast and Exhibits |
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| 9:00 a.m. | Opening Remarks Saranya P. Wyles, M.D., Ph.D., and Praneetha R. Elugunti, M.H.A., M.B.A. |
| 9:05 a.m. | Keynote: Exploring the Promise of CRISPR Therapeutics In Vivo and Cell Therapy Applications Birgit Schultes, Ph.D. |
| 9:35 a.m. | 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 a.m. | Plenary Highlight: Transforming Lives with Personalized Cancer Therapies Introduction: Alina R. Oancea Speaker: Bruce Levine, Ph.D. |
| 10:35 a.m. | Mayo Clinic Highlight: New Directions in Engineered Cell Therapy Saad J. Kenderian, M.B., Ch.B. |
| 11:05 a.m. | Fireside Chat: Immunotherapy Moderator: Saad J. Kenderian, M.B., Ch.B. Panelist: Mohamed A. Kharfan Dabaja, M.D., M.B.A. |
| 11:20 a.m. | 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 a.m. | Healthcare Innovation – Discussion Gloria R. Olivier, Ph.D., Rupa Pike, Ph.D., Sarah Creviston, Daniel Cushing Ph.D. |
| 12:10 p.m. | Lunch and Exhibits |
| | iPSC Therapy Plenary Moderator: Zachary Resch, Ph.D. |
| 1:10 p.m. | A Vision to Grow Stem Cells into Retinal Pigment Epithelium (RPE) for Eyesight Kapil Bharti, Ph.D. |
| 1:25 p.m. | The Path to a Cure for Type 1 Diabetes: What's Next in Cell Therapy and Beyond? Quinn P. Peterson, Ph.D. |

1:40 p.m. Closer to Precision Cardiology With iPSCs
Max Gnecchi M.D. Ph.D.
 1:55 p.m. IPSC-Derived Cardiac Lineages for Heart Repair in Congenital Heart
Disease
Timothy Nelson, M.D., Ph.D.
 2:10 p.m. Panel Discussion: iPSC
Moderator: Zachary T. Resch, Ph.D.
Panelist: Session Presenters
 2:25 p.m. Closing Remarks
Julie G. Allickson, Ph.D., and Saranya P. Wyles, M.D., Ph.D.

2:30 p.m.

Adjourn