

First National Symposium: November 1, 2017

Smilow Center for Translational Research,
The Arthur H. Rubenstein Auditorium

- 8:00-8:30 Registration and Continental Breakfast
- 8:30-9:00 ***All You Need to Know About Penn Health Tech***
Brian Litt, MD, Professor of Neurology, Neurosurgery, and Bioengineering
Co-Director, Penn Center for Health, Devices and Technology, University of Pennsylvania
- 9:00-9:15 ***Welcome and Recognition of the generous donation to Penn Engineering and Penn Medicine by the Brassington Family: Vijay Kumar***, PhD, Nemirovsky Family Dean, Penn Engineering and Professor Mechanical Engineering and Applied Mechanics, Computer and Information Science, Electrical and Systems Engineering & **Jonathan Epstein**, MD, Executive Vice Dean, William Wikoff Smith Professor of Medicine, and Chief Scientific Officer, Perelman School of Medicine at the University of Pennsylvania
- 9:15-9:45 ***Industry Perspective on the Medical Device Space***
Mike Coyle, MBA, EVP & Group President Medtronic
- 9:45-10:00 ***Fireside Chat with Mike Coyle***
Moderator: **Mark Turco**, MD, Chief Innovation and Corporate Outreach Officer, Penn Center for Innovation, University of Pennsylvania
- 10:00-10:15 Break
- 10:15-10:45 ***Venture Perspective of the Medical Device Space***
Justin Klein, MD, JD Partner, New Enterprise Associates
- 10:45-11:00 ***Fireside Chat with Justin Klein***
Moderator: **Vanessa Z. Chan**, PhD, Professor of Practice, Innovation & Entrepreneurship, Department of Materials Science & Engineering, University of Pennsylvania
- 11:00-11:10 ***Overview of Grant Process***
Insup Lee, PhD, Cecilia Fittler Moore Professor of Computer and Information Science, Director, PRECISE Center, Co-Director, Penn Center for Health, Devices and Technology, University of Pennsylvania



11:10-11:30

Grant Award Winner Presentation #1 : David Issadore, PhD, Assistant Professor of Biomedical and Electrical & Systems Engineering, University of Pennsylvania, **Andrew Tsourkas**, PhD, Professor, Bioengineering, University of Pennsylvania, Associate Director, Center for Targeted Therapeutics and Translational Nanomedicine, Institute of Translational Medicine and Therapeutics (ITMAT), University of Pennsylvania, **Ravi Yelleswarapu**, PhD Student Bioengineering, University of Pennsylvania, **Ben Stanger**, MD, PhD, Associate Professor of Medicine, University of Pennsylvania, **Erica Carpenter**, MBA, PhD, Research Assistant Professor of Medicine, University of Pennsylvania, **Ramon Diaz-Arrastia**, MD, PhD, Presidential Professor of Neurology, University of Pennsylvania: **"Wash-Free Droplet Diagnostic on a Chip"**

11:30-11:50

Grant Award Winner Presentation #2: Jesse Taylor, MD, Mary Downs Endowed Chair of Pediatric Craniofacial Treatment and Research, Co-Director, CHOP Cleft Team, Plastic, Reconstructive, and Craniofacial Surgery, University of Pennsylvania and CHOP, **Michael Hast**, PhD, Adjunct Assistant Professor, Orthopedic Surgery, University of Pennsylvania, **Ari Wes**, Medical Student & Research Fellow, University of Pennsylvania, : **"A New Paradigm in Distraction: Development of a Remote-Controlled Craniofacial Distractor System"**

11:50-12:10

Grant Award Winner Presentation #3: Shu Yang, PhD, Professor, Department of Material Science and Engineering, Department of Chemical and Biomolecular Engineering, University of Pennsylvania, **Genevieve Dion**, Associate Professor, Fashion Design, Westphal College of Media Arts and Design and Director of the Shima Seiki Haute Technology Laboratory Drexel University: **"Knitted Passive Probes for In Situ Sweat Collection and Diagnosis"**

12:10-12:15

Morning Overview

Brian Litt, MD, Professor of Neurology, Neurosurgery, and Bioengineering Co-Director, Penn Center for Health, Devices and Technology, University of Pennsylvania

12:15-1:15

Buffet Lunch

Visit Partner Booths & Networking

1:15-1:35

Grant Award Winner Presentation #4: Flavia Vitale, PhD, Instructor, Department of Neurology, Department of Physical Medicine and Rehabilitation, Center for Neuroengineering and Therapeutics, University of Pennsylvania, **Pedro Gonzales-Alegre**, MD, PhD, Associate Professor, Department of Neurology, University of Pennsylvania, Associate Professor and Director for Clinical Programs, Raymond G Perelman Center for Cellular & Molecular Therapeutics, CHOP: **"MINT: A Multipoint Injection Technology for Intra-parenchymal Gene Transfer"**



- 1:35-1:55 ***Grant Award Winner Presentation #5: Jacob Brenner, MD, PhD, Clinical Instructor, Pulmonary & Critical Care Division, Department of Medicine, University of Pennsylvania, John Hansen-Flaschen, MD, Professor of Pulmonary & Critical Care Division, Department of Medicine, University of Pennsylvania, Michael Swoboda, MS, Research at Conquer, collaborative at Drexel University, Perry Dubin, MD, Clinical Instructor, Department of Medicine, Sloan-Kettering Memorial Hospital, Marek Swoboda, PhD, Assistant Teaching Professor, Department of Biomedical Engineering, Drexel University: "AIR-AD Device to Help COPD Patients"***
- 1:55-2:00 ***Award Discussion and Next Steps***
Insup Lee, PhD, Cecilia Fidler Moore Professor of Computer and Information Science, Director, PRECISE Center, Co-Director, Penn Center for Health, Devices and Technology, University of Pennsylvania
- 2:00-3:30 ***Orthopedics Device Space and Translational Update***
- 2:00-2:05 ***Welcome and Overview***
Louis J. Soslowsky, PhD, Fairhill Professor, Director of Penn Center for Musculoskeletal Disorders, and Associate Dean for Research Integration, University of Pennsylvania
- 2:05-2:25 ***Keynote Presentation: "From Bench to Bedside-Creating New Hands"***
L. Scott Levin, MD FACS, Magnusson Professor and Chairman of Orthopaedic Surgery at Penn Medicine and Director of the Hand Transplant Program at Children's Hospital of Philadelphia (CHOP).
- 2:25-2:40 ***"Innovations in Musculoskeletal Regeneration"***
Robert L. Mauck, PhD, Ralston Professor and Director of McKay Orthopaedic Research Lab, University of Pennsylvania
- 2:40-2:55 ***"With and Without Industry: Pathways to Human Application"***
Neil Malhotra, MD Assistant Professor of Neurosurgery & Co-director Translational Spine Research Laboratory, University of Pennsylvania
- 2:55-3:10 ***"Commercializing of Medical Technology -- the Product, Pathway, and Pitfalls."***
James Carey, MD, Director of the Penn Center for Advanced Cartilage Repair and Osteochondritis Dissecans Treatment, Assistant Professor of Orthopaedic Surgery Perelman School of Medicine University of Pennsylvania
- 3:10-3:30 ***"Navigating the Valley of Death – Preclinical Product Development"***
Thomas Schaer, VMD, Director, Translational Orthopaedic Research and Preclinical Studies, University of Pennsylvania New Bolton
- 3:30-3:45 ***Break, Visit Booths, and Networking***



Penn Health-Tech
Center for Health, Devices and Technology

3:45-4:45

"Navigating the FDA Regulatory Environment: Premarket Review of Medical Devices Post 21st Century Cures and FDARA"

Blake E. Wilson, JD, Senior Associate Hogan Lovells US LLP

4:45-5:00

Wrap-up

**Brian Litt, MD, Professor of Neurology, Neurosurgery, and Bioengineering
Co-Director, Penn Center for Health, Devices and Technology, University of
Pennsylvania**

5:00-6:00

Reception for all Symposia Participants and Networking

Smilow Center for Translational Research, 1st Floor, Commons Lobby