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 Fitler 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, Ravil 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, Ravi Díaz-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 Fitler 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*
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