



Pediatric Innovation Retreat

"Advancing pediatric research, technology development, and commercial translation"

Friday, July 13, 2018, 8 am to 3:30 pm

University of Pittsburgh—Alumni Hall, Connolly Ballroom
Pittsburgh, Pennsylvania

7:00 am - 8:00 am Registration and Continental Breakfast

8:00 am - 8:15 am Welcome and Introductions

William R. Wagner, Director, McGowan Institute, Professor of Surgery, Bioengineering and Chemical Engineering, University of Pittsburgh

8:15 am - 11:30 am Session #1 - Game Changing Innovations

Moderator: George Gittes, MD Benjamin R. Fisher Chair of Pediatric Surgery and Surgeon-in-Chief, Director, Pediatric Surgical Research, Professor, Department of Surgery, University of Pittsburgh School of Medicine

8:15 am - 8:40 am Inhibiting Distal Biochemical Pathway Reactions: A Novel Therapeutic Chaperone Strategy for Inherited Metabolic Disorders

Al-Walid Mohsen, PhD, Department of Pediatrics, Children's Hospital of Pittsburgh of UPMC

8:40 am - 9:05 am Biosensors to Detect Bloodstream Infections in Infants

Neal J. Thomas, MD MSc, Associate Dean for Clinical Research, Pennsylvania State University College of Medicine, Professor of Pediatrics and Public Health Sciences, Division of Pediatric Critical Care Medicine, Penn State Children's Hospital and

Pak Kin Wong, PhD, Fellow of RSC, SLAS and AIMBE; Professor of Biomedical Engineering, Mechanical Engineering and Surgery; Director, BME Program, The Pennsylvania State University

9:05 am - 9:30 am Surgical Magnification for Pediatric Blindness

Matt Maltese, PhD, Director of Biomechanics Research, Department of Anesthesiology and Critical Care Medicine, Children's Hospital of Philadelphia (CHOP) and Senior Fellow, CHOP's Center for Injury Research and Prevention

Technology Teaser

Fate, Function, and Genetic Engineering of Breast Milk Cells for Infant Therapy

Katie Whitehead, PhD, Assistant Professor, Department of Chemical Engineering, Carnegie Mellon University

Technology Teaser **Liver Bioreactor, Bridge for Liver Transplantation**

Joerg Gerlach, MD, PhD, Professor, Department of Surgery, University of Pittsburgh

9:45 am - 10:00 am Refreshment Break

- 10:00 am - 10:25 am **Beta Blockers to Treat Congenital Heart Defects in Children**
Bernhard Kuhn, MD, Scholar, Richard King Mellon Foundation Institute for Pediatric Research; Associate Professor and Director of Research in Cardiology, Department of Pediatrics, University of Pittsburgh
- 10:25 am - 10:50 am **Lymphangiography and Lymphatic Duct Embolization**
Yoav Dori, MD, PhD, Pediatric Cardiologist and Director of Pediatric Lymphatic Imaging and Interventions and Lymphatic Research, Children's Hospital of Philadelphia
- 10:50 am - 11:15 am **Whole Child Program**
Erika Fink, MD, Associate Professor, Critical Care Medicine, Pediatrics, and Clinical and Translational Science Institute, University of Pittsburgh School of Medicine
- Technology Teaser **Topic TBA**
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- 11:20 am - 12:15 pm **Keynote Presentation - The FDA's perspective on the current status and future "The FDA's Perspective on the Current Status and Future Outlook of Pediatric Technology Regulation, Funding, and Commercialization"**
Vasum Peiris, MD, MPH, FAAP, FACC, FASE, Chief Medical Officer - Pediatrics and Special Populations, Center for Devices and Radiological Health, US Food and Drug Administration
- 12:15 pm - 1:00 pm **Lunch**
- 1:00 pm - 1:45 pm **Session #2 - Technology Spotlight**
Designing Context Driven Augmented Reality Experiences for Healthcare
Det Ansinn, President and CEO, Brick Simple
 ARiA (AR in ACTION) is convening some of the top minds in Augmented Reality to accelerate conversation and collaboration amongst industry innovators, thought leaders, investors and corporations, who are working to implement real-world AR Solutions.
- 1:45 pm - 3:15 pm **Session #3 - Bringing Dreams to Reality**
 Dreams are the foundation of science and innovation. Rather than just dreaming about creating game changing innovation and hoping it comes to pass, create a plan that you can use to actually see it become reality. Hear from experienced people who have supported the translation of innovative ideas to real products impacting patient lives.
- Regulatory Strategy**
Seth Goldenberg, PhD, Entrepreneur-in-Residence, Philadelphia Pediatric Medical Device Consortium
- Prototype Design and Manufacturing**
Eric Sugalski, PhD, President and CEO, SmithWise
- Technology Commercialization**
Donald Taylor, PhD, MBA, MS, Assistant Vice Chancellor, Commercial Translation in the Health Sciences; Founder and Director, sciVelo
- Investment Strategies**
Shaharim Hejazi, PhD, Partner BioAdvance
- 3:15 PM **Concluding Comments**

