



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 **Genetic Engineering of Breast Milk Cells for Infant Therapy**

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

Technology Teaser **Biological temporary extracorporeal live support for new born children with liver under function**

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

