



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, Ph.D, 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, Ph.D, 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, Ph.D, 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, Ph.D, 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, Ph.D, 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, Ph.D, 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, Ph.D, 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: Resilience following Pediatric Critical Illness**

Ericka L. Fink, MD, MS, 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 outlook of pediatric technology regulation, funding, 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

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, Ph.D, Entrepreneur-in-Residence, Philadelphia Pediatric Medical Device Consortium

Prototype Design and Manufacturing

Eric Sugalski, MBA, President and CEO, SmithWise

Technology Commercialization

Donald Taylor, Ph.D, MBA, MS, Assistant Vice Chancellor, Commercial Translation in the Health Sciences; Founder and Director, sciVelo

Investment Strategies

3:15 PM

Concluding Comments