

SEMINAR ONE

Fleegler Exhibit Table:

- » **ICISS: Integrated Clinical Information Sharing System** - Eric Fleegler MD MPH, Eugenia Chan MD MPH.
- » **HelpSteps.com** - Eric Fleegler MD MPH, Aaron Pikcilingis, Pete Warrington, Nicholas Snietka, Meghan Dow

TeleCAPE: Telemedicine for Home Ventilated Patients - David Casavant, MD; Robert Graham, MD

Childhood Obesity Management Tools for Primary Care Settings - Jennifer K. Cheng, MD, MPH; Sonja Ziniel, PhD; Rachael Grant, BS; Sion K. Harris, PhD

Grant Exhibit Table:

- » **Perinatal Brain Injury: Potential of Innovative NIRS to Detect Injury and Optimize Hypothermia** - Ellen Grant MD; Mari Franceschini PhD
- » **Burst Suppression Index (BurSIn): A Tool to Quantify EEG Burst Suppression in Status Epilepticus** - Christos Papadelis, PhD; Chiran Doshi, MSc; Sigride Thome-Souza, MD; Ellen P. Grant, MD; Robert Tasker, MD; Tobias Loddenkemper, MD
- » **BabyMEG: A Novel Pediatric Magnetoencephalography System** - Yoshio Okada, PhD, Christos Papadelis PhD; P. Ellen Grant, MD
- » **Childrens Hospital Research Integration System (ChRIS)** - Rudolph Pienaar, PhD; P. Ellen Grant, MD

As a world leader in pediatric medicine, Boston Children's Hospital fosters a culture of innovation that empowers clinicians and researchers to re-examine and push the boundaries of pediatric health care—turning ground-breaking visions into reality.

Thank you for joining us for this Innovators' Showcase.

Naomi Fried, PhD Chief Innovation Officer	Pedro del Nido, MD Chief Of Cardiac Surgery
Carla E. Small IAP Program Manager	Alex Pelletier FIT Program Manager

And the entire Innovation Acceleration Program Team:
Soleh Al Ayubi | Emila Shosho | Gajen Sunthara

For more information, contact the Innovation Acceleration Program team at innovationacceleration@childrens.harvard.edu or review our website at www.childrenshospital.org/innovation.

Boston Children's Hospital

INNOVATORS' SHOWCASE

Friday, April 4th
12–1 p.m.

Enders Lobby/Folkman Auditorium/Seminar One

Welcome to Boston Children's Hospital's first Innovators' Showcase, hosted by the Innovation Acceleration Program. Today, Boston Children's Hospital will be a hub of activity with innovators from across the enterprise sharing their work and interacting one-on-one with visitors in an engaging "science fair" format.

We encourage you to walk around, interact with the innovators, see their inventions and meet the members of our team that are involved in supporting innovators across Boston Children's Hospital.

Hosted by the Innovation Acceleration Program



**Boston
Children's
Hospital**
Until every child is well

Innovation Acceleration
Program

Innovation List and Location

There are over 35 innovations featured in Enders Lobby and the two adjoining meeting rooms: Folkman Auditorium and Seminar One. The following identifies the innovations and associated innovators, listed according to the room in which you will find their exhibit table.

ENDERS LOBBY

“Resources for Innovators” Table – A wealth of information on funding sources, project acceleration resources, and innovation education and tools available from resources within and outside of Boston Children’s Hospital.

Innovation Acceleration Program Information Booth – Stop by to learn more about the support IAP provides to innovators across Boston Children’s Hospital, including Innovestment Grants, FastTrack Innovation in Technology Awards, monthly Innovators’ Forums – and more.

Madsen Exhibit Table:

- » **Noninvasive Determination of CSF Flow in Shunts in the Diagnosis of Shunt Malfunction** – Joseph R. Madsen, MD; Tomer Anor, PhD; Sanjay Prabhu, MD
- » **Computational Identification of Seizure Focus from Interictal Data** – Eun-Hyoung Park, PhD, and Joseph Madsen, MD

An Imaging Biomarker for Concussion: Revealing Novel Brain Microstructure with Diffusion Compartment Imaging – Simon K. Warfield, PhD; Benoit Scherrer, PhD; Maxime Taquet, PhD

Intravenous Oxygen using Gas-Filled Microparticles – John Kheir, MD; Brian Polizzotti, PhD

Robotic Implant for Treatment of Long-gap Esophageal Atresia – Pierre Dupont, PhD; Dana Damian, PhD; Slava Arabagi, PhD; Russell Jennings, MD; Peter Ngo, MD; Michael Manfredi, MD

Isolated Orthosis for Thumb Actuation – Annette Correia, OT (BCH); Leia Stirling (Wyss)

Medical Applications of a Slippery Surface – Anne Hansen MD, MPH; Mike Super, M.Sc., PhD (Wyss)

HarVAD – A Biomimetic Soft Robotic Approach to Direct Cardiac Compression – Frank Pigula, MD; Conor Walsh, PhD (Wyss/SEAS); Ellen Roche (Wyss/SEAS); Ali Alazmani, PhD; Nikolay Vasilyev, MD

Thermoregulation Head Wrap – Karen Sakakeeny, RN

A Paper-based Fingerstick Liver Function Test – Nira Pollock, MD, PhD, (BCH/BIDMC); Sidhartha Jain, MS, (Diagnostics For All)

FOLKMAN AUDITORIUM

Kohane Lab Exhibit Table:

- » **Neosaxitoxin-based Local Anesthetics** – Daniel Kohane, MD, PhD; Charles Berde, MD, PhD
- » **Drug Eluting Contact Lens** – Daniel Kohane, MD, PhD; Joseph Ciolino, MD
- » **Phototargeted Nanoparticles** – Daniel Kohane, MD, PhD; Tal Dvir, PhD
- » **Prolonged Duration Local Anesthetics** – Daniel Kohane, MD, PhD; Hila Epstein-Barash, PhD
- » **Magnetophoretic Separation of Bacteria from Whole Blood** – Daniel Kohane, MD, PhD; Jung-Jae Lee, PhD
- » **Surface Modified Silicone Conduits for Highly Selective Hemofiltration** – Daniel Kohane, MD, PhD; Brian McAlvin, MD
- » **Nanowired 3D Cardiac Patches** – Daniel Kohane, MD, PhD; Brian Timko, PhD; Tal Dvir, PhD
- » **NIR-actuated Drug Delivery Devices** – Daniel Kohane, MD, PhD; Brian Timko, PhD
- » **Light-triggered Drug Delivery** – Daniel Kohane, MD, PhD; Rong Tong, PhD
- » **Electrospun Polymeric Sutures for Local Analgesic Release** – Daniel Kohane, MD, PhD; Christopher Weldon, MD, PhD; Patrick Armstrong, ME

Boston Children’s Hospital Lean Six Sigma – An enterprise-wide initiative with executive sponsors: Henry Tomasuolo, MBA and Laura J. Wood, DNP, MS, RN; and Project Manager: Howard Brightman, ScD, PE, CSP, CIH

Extremely Short Magnetic Surgical Needle – Kaifeng Liu, MD; Kaiwei, Liu, MD; and Dr. Gary Visner’s Lab

Children’s At Home (CMCH) – Michael Rich, MD, MPH; Julie Polvinen

RAGE-Control – Jason Kahn PhD; Peter Ducharme LICSW; Alexander Rotenberg MD PhD; Joseph Gonzalez-Heydrich MD

My BCH Story App – Carrie Mauras, PhD; Neal Goodman; Ben Resner

Hacking Pediatrics – BCH was home to the world’s first Pediatric Hackathon last year. Come learn about the Hacking Pediatrics event planned for Fall, 2014. – Michael Docktor, MD; Kate Donovan, PhD, MBA, BS; Margaret McCabe, PhD, RN, PNP; Alexander Pelletier, MBA; Judy Wang, MS

FastTrack Innovation in Technology (FIT) Exhibit Table:

- » **Discharge Communications (DisCo)** – Vinny Chiang, MD; Jayne Rogers, RN, MSN, NEA-BC; Kelly Dunn, MS, RN, CPNP; Fabienne Bourgeois, MD, MPH
- » **My Passport** – Marilyn Moonan, RN, MSN, CPN, CCTN
- » **Mobile Collaborative TaskList** – Timmy Ho, MD; Ken Michelson, MD; Fabienne Bourgeois, MD, MPH

FastTrack Innovation in Technology R&D Exhibit Table – The FIT team spends “bench” time exploring new and emerging technologies to mine ideas as we look ahead to of the future of healthcare.- Gajen Sunthara, BSc; Soleh Al Ayubi (Ayubi), BS, M.Eng., PhD; Nitin Gujral, BS Electronics; Alex Pelletier, MBA