

Sponsors-2019 McGowan Institute Retreat

PittMcGowan



PittsciVelo
In partnership with Innovation Institute

Program 2019 McGowan Institute Retreat March 11 and 12, 2019

(As of 12/20/18)

7:30-8:30am	Networking Breakfast Location: Ballroom B
8:30-9:00am	Welcome and State of the Institute Address William R. Wagner, PhD Director-McGowan Institute Location: Ballroom B
9:30-11:00am	Morning Breakout Sessions (3 concurrent)
Session 1	Pulmonary Regeneration and Repair Organized by Charlie Ren, PhD Assistant Professor-Bioengineering Carnegie Mello University ...and Keith Cook, PhD Professor-Bioengineering Carnegie Mello University Location: Ballroom B “Iron-Sulfur Biogenesis Controls Endothelial Dysfunction in Pulmonary Hypertension” Stephen Chan, MD, PhD, FAHA (20 minutes) Director, Center for Pulmonary Vascular Biology and Medicine Associate Professor of Medicine Pittsburgh Heart, Lung, Blood, and Vascular Medicine Institute Division of Cardiology, Department of Medicine UPMC and University of Pittsburgh School of Medicine

“EVLP: A Human Pre-Clinical Model for Lung Therapies”

Mauricio Rojas, MD (20 minutes)

Scientific Director Dorothy P. and Richard P. Simmons Center for Interstitial Lung Diseases

Associate Professor, Division of Pulmonary, Allergy and Critical Care Medicine

Associate Professor of Clinical and Translational Research

Department of Medicine, University of Pittsburgh

“Clinical Aspects of ex vivo Lung Perfusion”

Pablo G. Sanchez, MD, PhD, FACS (20 minutes)

Assistant Professor of Cardiothoracic Surgery

Vice Chairman, Benign Lung Diseases

Surgical Director, Lung Transplantation and ECMO

Director, Lung Transplant Research

Director, Ex Vivo Lung Perfusion (EVLP) Program

Department of Cardiothoracic Surgery, University of Pittsburgh

Selection from abstracts (15 minutes)

Each presentation will be followed by a 3-4 min Q&A

Session 2

Beyond PD1 Immunotherapy: Novel Strategies to Target the Tumor Microenvironment

Organized by Tullia Bruno, PhD

Research Assistant Professor

Department of Immunology

University of Pittsburgh

Session Chairs: Tullia Bruno, PhD and

...and

Greg Delgoffe, PhD

Assistant Professor

Department of Immunology

University of Pittsburgh

Location: Gold Room

Title: TBD

Greg Delgoffe, PhD (9:30-9:50am)

Assistant Professor

Department of Immunology, University of Pittsburgh

“Tumor infiltrating B cells: an immunotherapy target on the rise”

Tullia Bruno, PhD (9:50-10:10am)

Research Assistant Professor

Department of Immunology, University of Pittsburgh

Selected talks from abstracts (3) (10:10-10:40am)

Panel Discussion (10:40-11:00am)

Session 3

Drug Delivery Strategies in the Extracellular and Intracellular Spaces

Organized by Wilson Meng, PhD and Jelena Janjic, PhD

Session Chair: Wilson Meng, PhD

Location: Conference Room A

“Pulmonary Drug Delivery using Perfluorocarbon Emulsions”

Keith Cook, PhD (9:30 am – 10:00 am)

Professor of Biomedical Engineering

Carnegie Mellon University

“Nanoparticle-mediated CNS Drug Delivery”

Devika S Manickam, PhD (10:00 am – 10:20 am)

Assistant Professor of Pharmaceutics

Duquesne University

Selection from abstracts – TBA (10:20 am – 10:40 am)

Roundtable discussion (10:40 am – 11:00 am)

11:30am-12:30pm

Buffet Lunch and Roundtable topics

Ballroom B

1:00-2:00pm

"Pop-Up" Workshops

Workshop #1

Pharmaceutical Quality by Design Research and Education

Workshop Organizer: Jelena Janjic, PhD

Associate Professor

School of Pharmacy

Duquesne University

Workshop Chair: James Drennen, PhD

Associate Dean for Research and Graduate Programs

Duquesne University School of Pharmacy

Location: Conference Room A

“Quality by Design: Modern Strategies for Product Development”

James K. Drennen, PhD (25min)

Associate Dean for Research and Graduate Programs

Duquesne University School of Pharmacy

“Process analytical technology (PAT) technology and applications”

Carl Anderson, PhD (20min)

Division Head

Pharmaceutical, Administrative & Social Sciences
Duquesne University School of Pharmacy

Panel Discussion (15 min) – discussion led by Drs. Wildfong, Janjic, and Drennen

Workshop #2 **I Finished Training, Now What? Pathways to Independence**

Workshop Organizer and Chair
Garrett Coyan, MD MS
Resident
Cardiothoracic Surgery
University of Pittsburgh Medical Center
Location: Gold Room

Title: TBA

Arthur Levine, MD
Senior Vice Chancellor for the Health Sciences
John and Gertrude Petersen Dean
School of Medicine
University of Pittsburgh

Title: TBA

Christopher Sciortino, MD
Assistant Professor of Cardiothoracic Surgery
Surgical Director, UPMC Advanced Heart Failure Center
Department of Cardiothoracic Surgery
University of Pittsburgh

Title: TBA

Fatima Syed-Picard, PhD
Assistant Professor
School of Dental Medicine
University of Pittsburgh

Title: TBA

Ryan Champagne
Grants Development Coordinator
Office of Research
University of Pittsburgh

2:00-2:30

Break

2:30-4:00pm

Afternoon Breakout Sessions (3 concurrent)

Session 4

The 15th Anniversary of the Center for Inflammation and Regenerative Medicine

Session Organizers and Chairs: Yoram Vodovotz, PhD
Professor in the Department of Surgery
University of Pittsburgh
...and
Gilles Clermont, MD
Professor of Critical Care Medicine
University of Pittsburgh
Location: Ballroom B

“The CIRM at 15: From Translational Systems Biology to Model-based Precision Medicine for Trauma”

Yoram Vodovotz, PhD
Professor of Surgery
University of Pittsburgh

Session 5

Importance of (Re)Vascularization

Session Organizer and Chair: Marie Billaud, PhD
Co-Chair: Sai Yerneni,
PhD Student, Biomedical Engineering,
Carnegie Mellon University
Location: Gold Room

“The Scope and Sequence of Growth Factor Delivery for Angiogenesis “

Steven Little, PhD (25 minutes presentation + 5 minutes Q&A)
William Kepler Whiteford Endowed Professor and Chair, Department of
Chemical and Petroleum Engineering
University of Pittsburgh Swanson School of Engineering

“Revascularization of the aortic adventitia: a new therapeutic target for aortic disease?”

Marie Billaud, PhD (25 minutes presentation + 5 minutes Q&A)
Research Assistant Professor, Department of Cardiothoracic Surgery
University of Pittsburgh School of Medicine

Speaker selected from abstracts – TBD (12 minutes presentation + 3 minutes Q&A)

Panel Discussion (15 minutes)

Session 6

Hepatic Regenerative Medicine

Session Organizer and Chair: Paul Monga, MD
Professor of Pathology
Vice-Chair of Experimental Pathology,
Department of Pathology
University of Pittsburgh
Location: Conference Room A

“Living Donor Transplantation Program”

Swaytha Ganesh, MD (2:30-2:55 pm)
Assistant Professor
Department of Medicine - Division of Gastroenterology, Hepatology, and
Nutrition
Medical Director of Living Donor Program - UPMC Thomas E Starzl Transplant
Institute
Center for Liver Diseases
University of Pittsburgh

“Cellular and Molecular Basis of Liver Regeneration”

George Michalopoulos, MD, PhD (2:55-3:20 pm)
Professor and Chair
Department of Pathology
University of Pittsburgh

“BioFabrication of Human Liver Tissue”

Alejandro Soto- Gutierrez, MD, PhD (3:20-3:45 pm)
Associate Professor
Department of Pathology
University of Pittsburgh

Selection from abstracts (3:45-4:00 pm)

4:00-4:30pm

Break

4:30-5:00pm

Rapid Fire Presentations

Location: Ballroom B

5:00-6:00pm

Poster Session/Evening Reception

Location: Ballroom A

6:00-7:00pm

Even numbers present

Odd numbers present

Tuesday-March 12, 2019

7:30-8:30am **Networking Breakfast** Ballroom B

8:30-9:00am **Break**

9:00-10:30am **Morning Breakout Sessions** (3 concurrent)

Session 7

Pediatric Innovations

Organized by George Gittes, MD

Director of the Richard King Mellon Foundation Institute for Pediatric Research
and Co-Scientific Director at UPMC Children's Hospital

Location: Ballroom B

"PET probe for radioguided surgery"

Marcus Malek, MD, FAAP

Assistant Professor of Surgery

Director, Pediatric Surgical Oncology

Department of Surgery

University of Pittsburgh

"Ventriculamniotic Shunt for fetal aqueductal stenosis"

Stephen Emery, MD

Associate Professor

Department of Obstetrics, Gynecology, & Reproductive Sciences

Divisions of Ultrasound and Maternal-Fetal Medicine

Magee-Womens Research Institute

"ThreadRiteIV catheter"

Cameron DeZfullian, MD

Assistant Professor, Adult and Pediatric Critical Care Medicine and Clinical and
Translational Science

Scientist, Safar Center for Resuscitation Research

Faculty, Vascular Medicine Institute

University of Pittsburgh School of Medicine

"Biodegradable magnesium alloy-based tracheal stent"

Prashant Kumta, PhD

Edward R. Weidlein Chair Professor

Swanson School of Engineering

University of Pittsburgh

...and

David Chi, MD

Associate Professor, Department of Otolaryngology

University of Pittsburgh

Clinical Director, Division of Pediatric Otolaryngology

Children's Hospital of Pittsburgh of UPMC

“interACTION: ACL”
Michael McClincy, MD
Assistant Professor
Department of Orthopaedic Surgery
University of Pittsburgh

Session 8 **Emerging Military Threats, Combat Casualty Gaps and Opportunities for Innovation**
Session Organizers and Chairs: Jelena Janjic, PhD and Col. Erik Weitzel, MD
Session Co-Chair: Nicholas Robbins, DO
Location: Gold Room

Speakers TBD

Panel Discussion

Session 9 **Regenerative Rehabilitation**
Session Organizer and Chair: Riccardo Gottardi, PhD
Session Co-chair: Benjamin Rothrauff, PhD
Location: Conference Room A

“Evaluating Clinical Outcomes of Biological Treatments and the TeMPO clinical trial (Comparing Different Types of Physical Therapy for Treating People with a Meniscal Tear and Osteoarthritis)”
James Irrgang, PT, PhD, ATC, FAPTA
Professor and Chair, Departments of Physical Therapy, Orthopaedic Surgery and the Clinical and Translational Science Institute
University of Pittsburgh School of Medicine

“Peripheral Nerve Regeneration and Physical Rehabilitation”
Kacey Marra, PhD
Professor, Department of Plastic Surgery
University of Pittsburgh School of Medicine

Selection from abstracts – TBD

Panel Discussion

11:00am-12:30pm **Lunch**
Alumni Hall or WPU Assembly Room
Distinguished Lecture: "Lessons in regenerative medicine translation: are we designing for the right therapeutic target?"
Jennifer Elisseeff, PhD
Professor of Ophthalmology
Director of the Translational Tissue Engineering Center
Johns Hopkins University

1:00-2:00pm

"Pop-Up" Workshops (3 concurrent)

Workshop #1

Wearable Biosensors

Session Organizers and Chairs: Jana Kainerstorfer, PhD
Professor

Department of Biomedical Engineering
Carnegie Mellon University

...and

Carmel Majidi, PhD

Associate Professor

Department of Mechanical Engineering
Carnegie Mellon University

Location: Ballroom B

"Continuous monitoring and treatment opportunities, applications and challenges using biosensing stickers"

Brian Stancil, PhD

President

Lifeware Labs

"Parylene Photonics: A New Platform for Flexible Optoelectronic Sensors"

Maysam Chamanzar, PhD

Department of Electrical and Computer Engineering
Carnegie Mellon University

"Monitoring of cerebral perfusion continuously and at the bedside with near-infrared light"

Jana Kainerstorfer, PhD

Department of Biomedical Engineering
Carnegie Mellon University

"TBD"

Burak Ozdoganlar, PhD

Professor, Mechanical Engineering

Carnegie Mellon University

Workshop #2

Malignant Pleural Effusion: When Push Comes to Shove

Session Organizers and Chairs: Michael Lotze, MD

Professor of Surgery and Bioengineering

University of Pittsburgh

...and

Raj Dhupar, MD

Assistant Professor of Cardiothoracic Surgery

University of Pittsburgh

Session Co-chair: Chigozirim Ekeke, MD
University of Pittsburgh Medical Center
Location: Gold Room

Workshop #3

LifeX

Organized by Mara McFadden, MBA
VP of Product and Medical Devices
LifeX Ventures
Location: Conference A

2:00-2:30

Break

2:30-4:00pm

Afternoon Breakout Sessions (3 concurrent)

Session 10

Let's Talk Science: Communicating Your Research to Different Audiences

Session Organizes and Chairs: Arvind Suresh, MS and Erin Hare, PhD
UPMC Media Relations
Location: Ballroom B

Talking about your science to industry and investors

Tony Torres
Entrepreneur in Residence
University of Pittsburgh

Science in the news: What makes your research interesting to a reporter

Liz Reid
Health & Science Editor
90.5 WESA FM

Being Social: Do's and Don'ts of talking science on social media

Walid F. Gellad, MD, MPH
Associate Professor of Medicine, Director, Center for Pharmaceutical Policy and Prescribing
University of Pittsburgh

Panel Discussion

Session 11

Image-Guided Therapeutic Delivery in Regenerative Medicine

Session Organizer and Chair: Michael Modo, PhD
Location: Gold Room

"Image-guided intra-arterial delivery of cell therapy for stroke"

Piotr Walczak, PhD
Assistant Professor
Department of Radiology
Johns Hopkins University

“Unmet needs and opportunities for regenerative medicine in interventional neuroradiology”

Monica Pearl, MD, DABR
Associate Professor, Interventional Neuroradiology
Director, Interventional Neuroradiology Fellowship Program
Director of Faculty Experience, Department of Radiology
Johns Hopkins University

“Interventional PET for precise and quantitative monitoring of the delivery of biologicals to the brain”

Mirosław Janowski, MA, MD, PhD
Associate Professor
Department of Radiology
Johns Hopkins University

“In vivo non-invasive monitoring of the immune response to ECM hydrogel implantation”

Michel Modo, PhD
Professor
Department of Radiology
University of Pittsburgh

“Development of imaging nanoparticles for translational MR imaging in regenerative medicine”

Charlie O’Hanlon
President and CEO
CelSense

Session 12

Microphysiological tissue chip for drug development

Session Organizers: Riccardo Gottardi, PhD
Research Assistant Professor
Department of Orthopaedic Surgery,
University of Pittsburgh.
...and
Hang Lin, PhD
Research Assistant Professor
University of Pittsburgh

Session Chair: Hang Lin, PhD
Location: Conference Room A

Panel Discussion

4:00-5:00pm

Regenerative Medicine Forum-Open to the Public

“Hope vs. Hype of stem Cell Therapy”

Organized by Bryan Brown, PhD
Location: Ballroom B

Moderator: Bill Flanagan- Allegheny Conference

Panel Discussion

J. Peter Rubin, MD, FACS
UPMC Endowed Professor and Chair of Plastic Surgery
Chair of Plastic Surgery
Director, UPMC Wound Healing Services
Professor of Bioengineering
University of Pittsburgh

Carl Kurlander
Visiting Distinguished Senior Lecturer
Faculty Adviser, Pitt In Hollywood
University of Pittsburgh

Michael Hufford
Vice President for Regulatory Affairs, Behavioral Science, and Innovation
Pinney Associates

5:00-6:00pm

Meet the Researchers Poster Session and Reception

Location: Ballroom A All poster presenters