

**Sponsors-2019 McGowan Institute Retreat**

# PittMcGowan



## **Program**

### **2019 McGowan Institute Retreat March 11 and 12, 2019**

(As of 02/27/19)

7:30-8:30am

**Networking Breakfast**

Location: Ballroom B

9:00-10:30am

**Morning Breakout Sessions (3 concurrent)**

Session 1

**Pulmonary Regeneration and Repair**

Ballroom B

Organizers:

Charlie Ren, PhD

Assistant Professor of Medical Engineering  
Carnegie Mellon University

and

Keith Cook, PhD

Professor-Bioengineering  
Carnegie Mellon University

**“Iron-Sulfur Biogenesis Controls Endothelial Dysfunction in Pulmonary Hypertension”**

Stephen Chan, MD, PhD, FAHA (9:00 - 9:20am)

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 (9:25 - 9:45am)

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 (9:50 - 10:10am)

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

**“Thirty-Day In Vivo Evaluation of a Wearable Pumping Artificial Lung”**

Ryan Orizondo, PhD (10:15 - 10:30am)

Postdoctoral Associate

McGowan Institute

University of Pittsburgh

Each presentation will be followed by a 5 min Q&A

Session 2

**Beyond PD1 Immunotherapy: Novel Strategies to Target the Tumor Microenvironment**

Gold Room

Organizer:

Tullia Bruno, PhD

Research Assistant Professor

Department of Immunology

University of Pittsburgh

Session Chairs:

Tullia Bruno, PhD

and

Greg Delgoffe, PhD

Assistant Professor

Department of Immunology

University of Pittsburgh

**“Engineering Metabolic Sufficiency in Adoptive Cell Therapies for Cancer”**

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

**“Engineering Universal CAR and SynNotch Receptors for Programmable Antigen Targeting”**

Jason Lohmueller, PhD (10:10 - 10:25am)

Postdoctoral Associate

Department of Immunology

University of Pittsburgh

**“The Therapeutically Induced Matrisome (Tim) Protects and Promotes Metastatic Disease”**

Andrew Bradshaw, BS (10:25 - 10:40am)

PhD Student

Department of Pathology

University of Pittsburgh

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

Greg Delgoffe, PhD; Tullia Bruno, PhD; Jason Lohmueller, PhD; Andrew Bradshaw, BS

Session 3

**Importance of (Re)Vascularization**

Conference Room A

Session Organizer and Chair:

Marie Billaud, PhD

Research Assistant Professor

Department of Cardiothoracic Surgery

University of Pittsburgh School of Medicine

Co-Chair: Sai Yerneni

PhD Student

Department of Biomedical Engineering

Carnegie Mellon University

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

Steven Little, PhD (9:00 - 9:25am)

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 (9:30 - 9:55am)

Research Assistant Professor

Department of Cardiothoracic Surgery

University of Pittsburgh School of Medicine

**“Decellularized Chick Chorioallantoic Membrane as an Inductive Biomaterial for Functional Blood and Lymph Vasculature”**

Sai Yerneni, BS (10:00 - 10:15am)

PhD Student

Department of Biomedical Engineering

Carnegie Mellon University

**Panel Discussion (10:15 - 10:30am)**

Panelists: Steven Little, PhD; Marie Billaud, PhD; Stephen Badylak, DVM, MD, PhD, Sai Yerneni, BS

11:00-11:30am

**Welcome and State of the Institute Address**

William R. Wagner, PhD

Director-McGowan Institute

Location: Ballroom B

11:30am-12:30pm

**Buffet Lunch and Roundtable topics**

Ballroom B

Topics:

*Tables will be labeled by topic. Seating is first come, first served.*

*Robert Kormos, MD*

Entrepreneurship for Scientists

*Don Taylor, PhD*

Academic Research vs. Start-up

*Bryan Brown, PhD*

Design Thinking for Scientific Innovation

*Garrett Coyan, MD MS*

Writing your first R01

Developing a Research Niche

Research Strategy and Management

All About Manuscripts

*Kacey Marra, PhD*

Machine Learning/Artificial Intelligence

in Regenerative Medicine

Mentorship

Working with Industry

1:00-2:00pm

**"Pop-Up" Workshops**

Workshop #1 **Bioelectric Strategies to Repair, Replace and Regenerate Impaired or Damaged Tissue Systems**  
Ballroom B

Workshop Organizer:

Robert Kormos, MD

Brack G Hattler Professor of Cardiothoracic Transplantation

Deputy Director for the McGowan Institute for Regenerative Medicine

Professor Cardiothoracic Surgery and Bioengineering

Department of Cardiothoracic Surgery, Heart and Vascular Institute

University of Pittsburgh Medical Center

Session Chair:

Stephen Badylak DVM, PhD, MD

Professor, Department of Surgery

University of Pittsburgh

Deputy Director and Director of the Center for Pre-Clinical Tissue Engineering

McGowan Institute for Regenerative Medicine

**"Implantable and wearable technologies for sensing and controlling neurological functions"**

Douglas Weber, PhD (1:00-1:15pm)

Associate Professor of Bioengineering

University of Pittsburgh

**"Bioelectric Medicine: A Regenerative Approach"**

Jorge Genovese, MD PhD (1:15-1:30pm)

Vice President of Electrical Stimulation Regeneration Research

BioLeonhardt LTP

Cal-X Starts Business Accelerator

Leonhardt's Launchpads Utah

**"TBD"**

**"TBD"**

**Panel Discussion (15 min)**

Workshop #2 **Pharmaceutical Quality by Design Research and Education**  
Conference Room A

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

**“Quality by Design: Modern Strategies for Product Development”**

James K. Drennen, PhD (1:00 – 1:25pm)

Associate Dean for Research and Graduate Programs

Duquesne University School of Pharmacy

**“Process analytical technology (PAT) technology and applications”**

Carl Anderson, PhD (1:25 – 1:45pm)

Division Head

Pharmaceutical, Administrative & Social Sciences

Duquesne University School of Pharmacy

**Panel Discussion** (15 min)

Panelists: Carl Anderson, PhD; Jelena Janjic, PhD; James Drennen, PhD

Workshop #3 **I Finished Training, Now What? Pathways to Independence**  
Gold Room

Workshop Organizer and Chair:

Garrett Coyan, MD, MS

Resident

Cardiothoracic Surgery

University of Pittsburgh Medical Center

**“Institutional Environment and Support for New/Early Stage Investigators”**

Arthur Levine, MD

Senior Vice Chancellor for the Health Sciences

John and Gertrude Petersen Dean

School of Medicine

University of Pittsburgh

**“Initiating Research Collaborations”**

Christopher Sciortino, MD, PhD

Assistant Professor of Cardiothoracic Surgery

Surgical Director, UPMC Advanced Heart Failure Center

Department of Cardiothoracic Surgery

University of Pittsburgh

**“Developing an Independent Research Theme”**

Fatima Syed-Picard, PhD

Assistant Professor

School of Dental Medicine

University of Pittsburgh

**“Finding Money”**

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  
Regeneration Modeling**

Ballroom B

Session Organizers and Chairs:

Yoram Vodovotz, PhD  
Professor  
Department of Surgery  
University of Pittsburgh

and

Gilles Clermont, MD  
Professor  
Department of Critical Care Medicine  
University of Pittsburgh

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

Yoram Vodovotz, PhD (2:30-2:50pm)  
Professor  
Department of Surgery  
University of Pittsburgh

**“Why Modeling Sepsis?”**

Gilles Clermont, MD (2:50-3:10pm)  
Professor  
Department of Critical Care Medicine  
University of Pittsburgh

**“Computing Stem Cell Fate Choice for Regenerative Medicine Applications”**

Shibin Mathew, PhD (3:10-3:30pm)  
Postdoctoral Research Fellow  
Department of Cancer Biology Dana Farber Cancer Institute  
Department of Genetics Harvard Medical School

**“Kinetic Model Simulation and Antigenicity Analysis of a Miniaturized Fc-Binding Domain for Local Deposition of Antibodies”**

Ngoc Pham, BS (3:30-3:40pm)

PhD Student

Graduate School of Pharmaceutical Sciences

Duquesne University

**Panel Discussion (20 min):**

Panelists: Yoram Vodovotz, PhD; Gilles Clermont, MD; Shibin Mathew, PhD; Ngoc Pham, BS

Session 5

**Drug Delivery Strategies in the Extracellular and Intracellular Spaces**

Gold Room

Organizers:

Wilson Meng, PhD

Associate Professor

School of Pharmacy

Graduate School of Pharmaceutical Sciences

Duquesne University

and

Jelena Janjic, PhD

Associate Professor

School of Pharmacy

Duquesne University

Session Chair:

Wilson Meng, PhD

**“Pulmonary Drug Delivery Using Perfluorocarbon Emulsions”**

Keith Cook, PhD (2:30 - 3:00pm)

Professor of Biomedical Engineering

Carnegie Mellon University

**“Nanoparticle-mediated CNS Drug Delivery”**

Devika S. Manickam, PhD (3:00 - 3:20pm)

Assistant Professor of Pharmaceutical Sciences

Duquesne University

**“Local Delivery of Adipose-Derived Mesenchymal Stem Cells Promotes Immunomodulation and Allograft Survival in Vascularized Composite Allotransplantation (VCA)”**

Jingjing Li, MD (3:20 - 3:40pm)

Research Fellow

Department of Plastic Surgery

University of Pittsburgh

**Panel discussion (3:40 - 4:00pm)**

Panelists: Keith Cook, PhD; Devika Manickam, PhD; Jingjing Li, MD



Session 6

**Hepatic Regenerative Medicine**

Conference Room A

Session Chairs:

Andrew Duncan, PhD  
Assistant Professor  
Department of Pathology  
University of Pittsburgh

and

Jacquelyn Russell, BS  
PhD Student  
Department of Pathology  
University of Pittsburgh

**“Liver Regeneration after Hepatectomy”**

Satdarshan (Paul) Singh Monga, MD, FAASLD (2:30-2:55 pm)  
Professor of Pathology and of Medicine  
Director, Pittsburgh Liver Research Center (PLRC)  
Assistant Dean for Medical Scientist Training Program (MSTP)  
Director of Cellular Approaches to Tissue Engineering & Regeneration (CATER) Training Program  
University of Pittsburgh

**“Liver Regeneration Making Living Donation Feasible”**

Swaytha Ganesh, MD (2:55-3:20 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

**“BioFabrication of Human Liver Tissue”**

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

**“Lack of Beta-Catenin in Hepatocytes Impairs Proliferation and Promotes Liver Progenitor Cell-Mediated Repair in Response to Hepatic Injury”**

Jacquelyn Russell, BS (3:45-4:00 pm)  
PhD Student  
Department of Pathology  
University of Pittsburgh

4:00-4:30pm

**Break**

4:30-5:00pm

**Rapid Fire Presentations**

Location: Ballroom B

Session Chairs:

Andrew Duncan, PhD  
Assistant Professor  
Department of Pathology  
University of Pittsburgh

and

Evan Delgado, PhD  
Postdoctoral Scholar  
Department of Pathology  
University of Pittsburgh

**“Adipose-Derived Stem Cells Partially Mitigate Muscle Atrophy after Peripheral Nerve Injury in the Rodent Model”**

Benjamin K. Schilling, MS  
PhD Student  
Department of Bioengineering  
University of Pittsburgh  
Poster 106

**“Elucidation and Integration of Tissue-Specific, Protein-Level Inflammatory Networks following Vascularized Composite Allotransplantation”**

Ali Aral, MD  
Postdoctoral Scholar  
Department of Surgery  
University of Pittsburgh  
Poster 40

**“Perfused 3D Printed Collagen Tubes Support Tissue Viability”**

Jacqueline Wittmer, BS  
PhD student  
Biomedical Engineering  
Carnegie Mellon University  
Poster 110

**“Cytokine Mimicking Microspheres for Use in Porous Scaffolds”**

Katherine Lorentz, MS  
PhD Student  
Department of Bioengineering  
University of Pittsburgh  
Poster 100

**“Biomagnetic Genetically Programmed Multicellular Microrobots”**

Michael Behrens, BS

PhD Student  
Department of Bioengineering  
University of Pittsburgh  
Poster 4

**“Theranostic Analgesic Regenerative Gel-Emulsion Technology (T.A.R.G.E.T.) Platform for Local Analgesia and Promotion of Nerve Regeneration”**

Mallory R. Wampler, MD  
Postdoctoral Scholar  
AIRMED/RESTOR  
United States Army Institute of Surgical Research  
Poster 76

5:00-7:00pm **Poster Session/Evening Reception**  
Location: Ballroom A

5:00-6:00pm Even numbers present

6:00-7:00pm 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**  
Ballroom B

Organizer:  
George Gittes, MD  
Director  
Richard King Mellon Foundation Institute for Pediatric Research; and  
Co-Scientific Director  
UPMC Children’s Hospital

**“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

**“Bili-Hut™: Merging human centered design, usability, biomedical engineering and health economics to democratize newborn jaundice treatment”**

Donna Brezinski, MD

CEO and Founder

Little Sparrows Technologies, Inc.

Session 8

**Emerging Military Threats, Combat Casualty Gaps and Opportunities for Innovation**

Gold Room

Session Organizers and Chairs:

Jelena Janjic, PhD

Associate Professor

School of Pharmacy

Duquesne University

and

Margaux Salas, PhD  
Senior Scientist  
AIRMED

Session Co-Chair:  
Nicholas Robbins, DO  
General Surgery Resident  
The Long School of Medicine  
University of Texas Health San Antonio

**“Prolonged Field Care on the Multi-Domain Battlefield: Current Emphasis and Future Needs”**

Margaux Salas, PhD (9:00 – 9:20am)  
Senior Scientist  
AIRMED  
59th MDW  
U.S. Air Force

**“The AIRMED Program: Regenerative, Resuscitative and Restorative Technologies in Combat Casualty Care”**

Michael Sippel, MD (9:20 – 9:40am)  
Surgical Resident  
AIRMED  
59th MDW  
U.S. Air Force

**“Inflammation Targeted Nanomedicine for Military Applications: Design, Manufacturing and Quality Control”**

Jelena M. Janjic, PhD (9:40 – 10:00am)  
ORISE Faculty Fellow  
Principal Scientist  
AIRMED  
59th MDW  
U.S. Air Force;  
Associate Professor  
Duquesne University

**“Prevention of Ischemia-Reperfusion Injury and Chronic Rejection in a Porcine Vascularized Composite Allotransplantation Model”**

Nicholas L. Robbins, DO (10:00 – 10:15am)  
Surgical Resident  
AIRMED  
59th MDW  
U.S. Air Force

**Panel Discussion**

Panelists: Margaux Salas, PhD, Michael Sippel, MD, PhD; Jelena Janjic, PhD; Nicholas Robbins, DO (10:15 – 10:30am)

Session 9

**Regenerative Rehabilitation**

Conference Room A

Session Organizer and Chair:

Session Organizers:

Riccardo Gottardi, PhD

Principal Investigator

Center for Pediatric Airway Disorders

Children's Hospital of Philadelphia

Session Co-Chair:

Amin Cheikhi, PhD

Postdoctoral Scholar

Department of Physical Medicine and Rehabilitation

University of Pittsburgh

**"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

**"Exposure of Muscle Stem Cells to a Stiff Microenvironment Drives an "Aged" Mitochondrial Phenotype"**

Hikaru Mamiya, BS

PhD Student

Department of Bioengineering

University of Pittsburgh

**Panel Discussion**

Panelists: James Irrgang, PT, PhD, ATC, FAPTA; Kacey Marra, PhD; Hikaru Mamiya, BS

11:00am-12:30pm

**Lunch**

\*William Pitt Union Assembly Room

3959 Forbes Ave, 1<sup>st</sup> Floor

*\*Exit the University Club onto University Place, turn right, and walk ½ block to Fifth Avenue. Cross Fifth Avenue and turn left. The William Pitt Union will be on your immediate right on the corner of Fifth Ave and Bigelow Blvd. Turn right once inside and follow signs to the Assembly.*

**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**  
Ballroom B

Session Organizers and Chairs:  
Jana Kainerstorfer, PhD  
Assistant Professor  
Department of Biomedical Engineering  
Carnegie Mellon University

and

Carmel Majidi, PhD  
Associate Professor  
Department of Mechanical Engineering  
Carnegie Mellon University

**"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  
Assistant Professor  
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  
Assistant Professor  
Department of Biomedical Engineering  
Carnegie Mellon University

**"Microneedles Arrays for Transdermal and Intradermal Deliver of Bioactive Molecules and their Application for Endogenous Sensing"**

Burak Ozdoganlar, PhD  
Professor  
Department of Mechanical Engineering  
Carnegie Mellon University

Workshop #2 **Malignant Pleural Effusion: When Push Comes to Shove**  
Gold Room

Session Organizers and Chairs:  
Michael Lotze, MD  
Professor of Surgery and Bioengineering  
University of Pittsburgh

and

Rajeev Dhupar, MD, MPA  
Assistant Professor of Cardiothoracic Surgery  
Chief, Thoracic Surgery, VAMC of Pittsburgh  
Department of Cardiothoracic Surgery  
University of Pittsburgh

and

Chigozirim Ekeke, MD  
Cardiothoracic Surgery Resident  
University of Pittsburgh Medical Center

**“Current Therapies for Malignant Pleural Effusion”**

Chigozirim Ekeke, MD  
Cardiothoracic Surgery Resident  
University of Pittsburgh Medical Center

**“Oncolytic Vaccinia Virus Delivering Cytokines – Trials and Tribulations”**

David Bartlett, MD  
Bernard Fisher Professor of Surgery  
University of Pittsburgh School of Medicine

**“Novel Immune Approaches to the Pleural Space”**

Rajeev Dhupar, MD, MPA  
Assistant Professor of Cardiothoracic Surgery  
Chief, Thoracic Surgery, VAMC of Pittsburgh  
Department of Cardiothoracic Surgery  
University of Pittsburgh

**“Therapeutic Targeting of The Pleural Effusion Environment”**

Vera Donnenberg, PhD  
Associate Professor  
Department of Cardiothoracic Surgery  
University of Pittsburgh School of Medicine

Workshop #3 **LifeX**

Conference A

Organizer and Chair:  
Mara McFadden, MBA  
VP of Product and Medical Devices



LifeX Ventures

**“TBD”**

Speaker 1 (15 minutes)

**“TBD”**

Speaker 2 (15 minutes)

**“TBD”**

Speaker 3 (15 minutes)

Panel discussion (15 minutes)

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**  
Ballroom B

Session Organizers and Chairs:

Arvind Suresh, MS  
Manager, Science Writing  
UPMC Media Relations

and

Erin Hare, PhD  
Manager, Science Writing  
UPMC Media Relations

**“Business Basics: Pitching your invention to potential partners “**

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”**

Vaughn Cooper, PhD  
Professor Department of Microbiology and Molecular Genetics  
University of Pittsburgh

**Panel Discussion**

Panelists: Tony Torres; Liz Reid; Vaughn Cooper, PhD

Session 11

**Image-Guided Therapeutic Delivery in Regenerative Medicine**

Location: Gold Room

Session Organizer and Chair:

Michel Modo, PhD

Professor

Department of Radiology

University of Pittsburgh

**“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**  
Conference Room A

Session Organizers:

Riccardo Gottardi, PhD  
Principal Investigator  
Center for Pediatric Airway Disorders  
Children’s Hospital of Philadelphia

and

Hang Lin, PhD  
Assistant Professor  
Department of Orthopaedic Surgery  
University of Pittsburgh School of Medicine

Session Chairs:

Hang Lin, PhD  
Assistant Professor  
Department of Orthopaedic Surgery  
University of Pittsburgh School of Medicine

and

Alessandro Piroso, PhD  
Postdoctoral Researcher  
Department of Orthopaedic Surgery  
University of Pittsburgh

**“Development of Human MSC-Based Organotypic Cultures for Toxicity Testing”**

Peter Alexander, PhD  
Assistant Professor  
Department of Orthopaedic Surgery  
University of Pittsburgh

**“iPSC-Based Three-Dimensional Neuronal Platforms for Modeling CNS Infections and Drug Screening”**

Leonardo D’Aiuto, PhD  
Research Instructor  
Department of Psychiatry  
University of Pittsburgh

**“Organ-on-a-Chip System for the Modeling of Synovial Joint Pathologies”**

Zhong Li, PhD  
Postdoctoral Associate  
Department of Orthopaedic Surgery  
University of Pittsburgh

**Panel Discussion**

Panelists: Peter Alexander, PhD; Leonardo D’Aiuto, PhD; Zhong Li, PhD

4:00-5:00pm

**Regenerative Medicine Forum-Open to the Public  
“Hope vs. Hype of Stem Cell Therapy”**

Ballroom B

**Organizer:**

Bryan Brown, PhD  
Assistant Professor  
Department of Bioengineering  
Swanson School of Engineering  
University of Pittsburgh

**Moderator:**

Bill Flanagan  
Chief Corporate Relations Officer  
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  
Documentarian and Filmmaker  
Visiting Distinguished Senior Lecturer

Faculty Adviser, Pitt In Hollywood  
University of Pittsburgh

Michael Hufford, PhD  
CEO, Lygenesis, Inc.  
Vice President for Regulatory Affairs, Behavioral Science, and Innovation  
Pinney Associates

5:00pm

**Poster Awards**  
Ballroom B

Presenter:  
Andrew Duncan, PhD  
Assistant Professor  
Department of Pathology  
University of Pittsburgh

5:00-6:00pm

**Meet the Researchers Poster Session and Reception**  
Ballroom A  
All poster presenter