

2020 McGowan Institute Retreat

PittMcGowan

Program – Draft (1/24/2020)
2020 McGowan Institute Retreat
March 9 and 10, 2020

Monday-March 9, 2020

12:00 pm

Registration Open
Lobby

1:00-2:30 pm

Trainee Workshop
Banquet Room 2
Second Floor

Session Organizers and Chairs:
Piyumi Wijesekara Kankanange
Doctoral Student, Laboratory of Charlie (Xi) Ren
Department of Biomedical Engineering
Carnegie Mellon University

and

Abigail Adams
Doctoral Student, Laboratory of Partha Roy
Department of Bioengineering
University of Pittsburgh

Speakers:
Elaine Soohoo, PhD
Biomedical Engineer
Division of Circulatory Support, Structural and Vascular Devices
Office of Cardiovascular Devices
U.S. Food and Drug Administration

Elizabeth Wayne, PhD
Assistant Professor
Departments of Biomedical Engineering and Chemical Engineering
Carnegie Mellon University

2:30-3:30 pm

Break

3:30-4:00 pm

Poster Teaser Presentations
Glessner Ballroom
Ground Floor

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

4:00-6:00 pm

Opening Reception and Poster Session
Glessner Ballroom
Ground Floor

Odd numbers posters present 4-5pm
Even number posters present 5-6pm

6:00-6:15 pm

Welcome and Opening Address
Glessner Ballroom

William R. Wagner, PhD
Director-McGowan Institute

6:15-7:30 pm

Technology Pitches
Glessner Ballroom

7:30-9:00 pm

Movie Night - Screening of "Burden of Genius"
Glessner Ballroom

Introduction By:
Carl Kurlander
Documentarian and Filmmaker
Visiting Distinguished Senior Lecturer
Faculty Adviser, Pitt In Hollywood
University of Pittsburgh

Tuesday-March 10, 2020

7:00 am

Registration Open
Lobby

7:00-8:00 am

Networking Breakfast
Glessner Ballroom

8:00-9:00 am

Patient Stories
Glessner Ballroom

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

9:00-9:30 am

Break

9:30-11:00 am

Morning Breakout Sessions (2 concurrent)

Session 1

Team Formation to Address Grand Challenges in Regenerative Medicine
Banquet Room 1
Second Floor

Do you have an idea for a large-scale proposal that requires new collaborations and team formation? Prospective team leaders will pitch their proposal ideas to the audience. All participants will receive coaching from established leaders on assembling large teams to address unmet clinical needs, fill technological gaps or develop educational tools and experiences. Time will be allotted for team formation, brainstorming and creating action plans.

Session 2

Synthetic Biology and Regenerative Medicine
Banquet Room 3
Second Floor

Session Organizer and Chair:
Mo Ebrahimkhani, MD
Associate Professor
Department of Pathology
School of Medicine;
Member, Pittsburgh Liver Research Center
University of Pittsburgh

“Linking Synthetic Biology with Mechatronic Systems”

Warren Ruder, PhD
Assistant Professor
Department of Bioengineering
University of Pittsburgh

“Building Engineered Systems with Synthetic Biology”

Philip LeDuc, PhD
William J. Brown Professor
Department of Mechanical Engineering
Director, Center for the Mechanics and Engineering of Cellular Systems
Carnegie Mellon University

“Synthetic Control of Gene Regulatory Networks by CRISPR: The Roadmap to Human Translation”

Samira Kiani, MD
Associate Professor
Department of Pathology, Division of Experimental Pathology
School of Medicine
Pittsburgh Liver Research Center
University of Pittsburgh

“Optogenetic Control of Telomere Clustering by Protein Phase Separation in ALT Cancer”

Huaiying Zhang, PhD
Assistant Professor
Department of Biological Sciences
Carnegie Mellon University

9:30-11:00 am

Commercialization Office Hours- *by appointment only*
Conference Room 3

Session Organizer and Chair:
Don Taylor, PhD, MBA, CLP
Assistant Vice Chancellor, Health Sciences Translation
Executive Director, sciVelo;
Co-Director, Center for Commercial Applications of Healthcare Data and of the Clinical and Translational Science Institute;
Associate Director, Center for Medical Innovation;
Associate Professor, Biomedical Informatics and Plastic Surgery, School of Medicine;
Associate Professor of Bioengineering
Swanson School of Engineering
University of Pittsburgh

11:00am-1:00 pm

Lunch, Diversity Lecture and Awards
Glessner Ballroom

1:00pm-2:30 pm

Afternoon Breakout Sessions (2 concurrent)

Session 3

Support for Early Stage Translational Research

Banquet Room 1

Session Organizers and Chairs:

Alan Hirschman, PhD
Executive Director
Center for Medical Innovation;
Professor of Bioengineering
Swanson School of Engineering
University of Pittsburgh

and

Scott Morley, MBA
Coulter Program Director and EIR
Innovation Institute
University of Pittsburgh

“Welcome and Introduction to Session”

Alan Hirschman, PhD

“From Bench, to Bedside, to Business: Commercializing your Medtech Innovation”

Scott Morley, MBA

“Building a Research Program with an Eye on Commercialization”

Morgan Fedorchak, PhD
Assistant Professor
Department of Ophthalmology
University of Pittsburgh School of Medicine

“Sowing the Seeds of a Successful Aortic Stent Design Program”

Bryan Tillman, MD, PhD
Associate Professor
Division of Vascular Surgery
Department of Surgery
University of Pittsburgh Medical Center

and

Youngjae Chun, PhD
Associate Professor
Department of Industrial Engineering
Swanson School of Engineering
University of Pittsburgh

“The Long and Winding Road to Technology Commercialization”

Jeremy Kimmel, PhD
Vice President of New Technology
ALung Technologies;
Commercial Translation Program Manager
Pitt SciVelo

“Laboratory Practices that Enhance Chances for Industry Partnerships and Clinical Translation”

Steven Badylak, DVM, PhD, MD
Professor
Department of Surgery
University of Pittsburgh;
Deputy Director

McGowan Institute for Regenerative Medicine;
Director
Center for Pre-Clinical Tissue Engineering
McGowan Institute for Regenerative Medicine

Session 4 **Regenerative Tissue Therapies and Cancer Risk/Progression**
Banquet Room 3

Session Organizers and Chairs:
Faina Linkov, PhD, MPH
Associate Professor of Ob/Gyn and Epidemiology
University of Pittsburgh School of Medicine;
Department of Obstetrics, Gynecology & Reproductive Sciences
Magee-Womens Research Institute

and

Lauren Kokai, PhD
Faculty
Department of Plastic Surgery
University of Pittsburgh School of Medicine;
Co-Director
Adipose Stem Cell Center
University of Pittsburgh

“Stem Cells and Cancer: An Overview”
Faina Linkov, PhD, MPH

“Post-Mastectomy Reconstruction with Tumor Suppressing Autologous Adipose Tissue”
Lauren Kokai, PhD

“Pleural Environment in Cardiovascular Disease and Cancer”
Vera Donnenberg, PhD
Associate Professor
Department of Cardiothoracic Surgery
University of Pittsburgh

“Adipose Derived Stem Cells: From Bench to Bedside”
Asim Ajaz, PhD
Research Assistant Professor
Department of Plastic Surgery
University of Pittsburgh School of Medicine

Panel discussion with speakers- 20 min

1:00-2:30 pm **Commercialization Office Hours- *by appointment only***
Conference Room 3

2:30-3:00 pm **Break**

3:00-4:30 pm **Afternoon Breakout Sessions** (2 concurrent)

Session 5 **Fireside Chat with Local Entrepreneurs**
Terrace Room
Second Floor

In this informal session, attendees will engage with a panel of academic entrepreneurs and CEOs from local start-up companies to learn tips for success in starting a new company.

Session Organizer and Chair:
Don Taylor, PhD

Panelists:

Antonio (Tony) Torres
Executive in Residence
Innovation Institute
University of Pittsburgh

Cecelia Yates, PhD
Associate Professor
Department of Health Promotion & Development
School of Nursing
University of Pittsburgh

Andrew Brown, PhD
Assistant Director
Commercial Translation Programs
sciVelo
University of Pittsburgh;
Clinical Assistant Professor
Department of Periodontics and Preventative Medicine
University of Pittsburgh School of Dental Medicine

Session 6

Scientific Session: Pulmonary Injury Repair, Regeneration and Transplantation
Banquet Room 3

Session Organizer and Chair:
Charlie (Xi) Ren, PhD
Assistant Professor
Department of Biomedical Engineering
Carnegie Mellon University

“Mitochondrial Dysfunction in Aging and Pulmonary Fibrosis”

Marta Bueno
Research Assistant Professor of Medicine
Aging Institute & Division of Pulmonary, Allergy and Critical Care Medicine
University of Pittsburgh

“Engineering of Pulmonary Stem Cells”

Charlie (Xi) Ren, PhD

“Donor Lung Preservation and Transplantation “

Kentaro Noda, PhD
Research Assistant Professor
Department of Cardiothoracic Surgery
University of Pittsburgh Medical Center

“De Novo Lung Biofabrication”

Erica Comber
Doctoral Student, Laboratory of Keith Cook
Department of Biomedical Engineering
Carnegie Mellon University

3:00-4:30 pm

Commercialization Office Hours- *by appointment only*
Conference Room 3

4:30 pm

Departure