## 2018 McGowan Retreat Draft Agenda
### February 13, 2018

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Molly Shoichet, PhD- University of Toronto  
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- Translating the Science of Tissue Plasticity for Human Performance Optimization and Injury Prevention | 9 |
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2018 McGowan Retreat Agenda
February 9, 2018

Monday-March 5th

7:00 -7:45 AM  Breakfast and Morning Mixer w/Clinicians  University Club Gold Room
Second Floor

8:00-8:15 AM  Director’s Welcome and State of the Institute Address  University Club Ballroom B
Second Floor
William R. Wagner, PhD
Director of the McGowan Institute for Regenerative Medicine
Professor of Surgery, Bioengineering and Chemical Engineering
University of Pittsburgh

8:15-9:15 AM  McGowan Institute for Regenerative Medicine Distinguished Lecture  Ballroom B
Regenerative Strategies in the Central Nervous System
Molly Shoichet, PhD
University Professor
Program in Neuroscience
University of Toronto

9:15-9:30 AM  Break

9:30-11:30 AM  Morning Breakout Sessions -
Session 1  Ballroom B
Cell and Tissue Regenerative Therapies at UPMC
Organizers and Chairs:
J. Peter Rubin, MD, FACS
Chair-Department of Plastic Surgery, UPMC Endowed
Professor of Plastic Surgery, and Professor of Bioengineering
University of Pittsburgh

And

Lauren Kokai, PhD
Research Assistant Professor
Department of Plastic Surgery
University of Pittsburgh

TBD
Speaker One

TBD
Speaker Two
Session 2
Reproductive Tissue Engineering and Women's Health

Organizer and Chair:
Bryan Brown, PhD
Assistant Professor
Department of Bioengineering
University of Pittsburgh

Pamela Moalli, MD, PhD
Associate Professor
Department of Obstetrics, Gynecology & Reproductive Sciences
Division of Urogynecology & Pelvic Reconstructive Surgery
Magee-Womens Hospital of UPMC; and
Associate Professor
Department of Bioengineering
University of Pittsburgh

Kyle Orwig, PhD
Professor
Department of Obstetrics, Gynecology & Reproductive Sciences
University of Pittsburgh

Kacey Marra, PhD
Associate Professor
Departments of Plastic Surgery and Bioengineering
University of Pittsburgh; and
Director, Plastic Surgery Research Laboratory
Department of Plastic Surgery
University of Pittsburgh School of Medicine

Session 3
Vision Restoration

Co-sponsoring Institute/Center: Louis J. Fox Center for Vision Restoration

Organizer and Chair:
Jeff Gross, PhD
E. Ronald Salvitti Chair in Ophthalmology Research;
Director, Louis J. Fox Center for Vision Restoration; and
Ocular Development, Disease, and Regeneration Laboratory
University of Pittsburgh School of Medicine
Cellular level imaging of retinal disease
Ethan Rossi, PhD
Assistant Professor of Ophthalmology
University of Pittsburgh School of Medicine

Gene therapy for retinal degeneration
Leah Byrne, PhD
Assistant Professor
Department of Ophthalmology
University of Pittsburgh

Dissecting molecular mechanisms of retinal axon degeneration and regeneration
Takaaki Kuwajima, PhD
Research Assistant Professor
Department of Ophthalmology
University of Pittsburgh School of Medicine

Neuromorphic event based computation
Ryad Benosman, PhD
Full Professor
Department of Ophthalmology
University of Pittsburgh School of Medicine

11:30 AM-1:00 PM  **Buffet Lunch**  
Roundtable Topics:

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<th>How to start a company</th>
<th>Lab Management Policies &amp; Structure – increasing lab efficiency</th>
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<th>How to find start-up funding</th>
<th>Big Data</th>
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1:00-2:00 PM  **Pop-Up Workshops**

**Nano-and Microfabrication methods for Medical Applications**  
Conference Room B
About the Session:
The goal of this workshop is to show Pitt research community the capability of Nanoscale Fabrication and Characterization Facility (NFCF) in the field of medical device fabrication. We will show examples of devices that can be fabricated at NFCF facility like novel drug delivery systems, biosensors and more.

Advancing your early-stage research toward commercial translation
Gold Room

Objectives:
1. Become familiar with the scope and scale of commercial translation
2. Learn how to write an effective proposal for grants that seek commercial translation projects
3. Share best practices and unmet needs for commercial translation to become more widely adopted

Afternoon Breakout Sessions –
Session 4
Ballroom B
Stem Cells and Aging
Co-sponsoring Institute/Center:
Aging Institute/AR3T

Organizer and Chair:
Fabrisia Ambrosio, PhD, MPT
Director of Rehabilitation
UPMC International; and
Associate Professor
Department of Physical Medicine & Rehabilitation
University of Pittsburgh

Keynote Lecture: Mitochondria, Aging and Stem Cell Function
Toren Finkel, MD, PhD (35 minutes)
Professor of Medicine
Division of Cardiology
G. Nicholas Beckwith III and Dorothy B. Beckwith Chair in Translational Medicine
Director, Aging Institute of UPMC and University of Pittsburgh

**Biologic strategies to regenerate aging intervertebral discs**
Nam Viet Vo, PhD (20 minutes)
Associate Professor
Department of Orthopaedic Surgery
University of Pittsburgh School of Medicine

**Endogenous DNA damage drives dilated cardiomyopathy**
Aditi Gurkar, PhD (20 minutes)
Assistant Professor of Medicine
Division of Geriatric Medicine
Department of Medicine

**Mitochondrial architecture as read-out for cell memory and aging**
Amin Cheikhi, PhD (20 minutes)
Postdoctoral Assignment
School of Medicine
University of Pittsburgh

Panel Discussion (30 minutes)

**Session 5**

**Translating Redox Vascular Biology to the Clinic**
Co-sponsoring Institute/Center:
Vascular Medicine Institute

Organizer and Chair:
Mark Gladwin, MD
Professor and Chair
Department of Medicine; and
Director, Pittsburgh Heart, Lung, and Blood Vascular Medicine Institute (VMI)
University of Pittsburgh

**Heme redox regulation and NO signaling**
Adam Straub, PhD
Assistant Professor
Department of Pharmacology and Chemical Biology; and
Principal Investigator, Vascular Medicine Institute
University of Pittsburgh

**Nitrate fatty acids: the road from discovery to the clinic**
Bruce Freeman, PhD
Irwin Fridovich Distinguished Professor and Chair
Department of Pharmacology and Chemical Biology
University of Pittsburgh

Globins as carbon monoxide poisoning antidotes
Mark Gladwin, MD
Professor and Chair
Department of Medicine; and
Director, Pittsburgh Heart, Lung, and Blood Vascular Medicine Institute (VMI)
University of Pittsburgh

Targeting Fbxo48/AMPK axis in metabolic diseases
Beibei Bill Chen, PhD
Director, Small Molecule Therapeutic Center
Co-Director, Acute Lung Injury Center of Excellence
Division of Pulmonary, Allergy and Critical Care Medicine
Department of Medicine
University of Pittsburgh

Platelet ROS
Sruti Shiva, PhD
Associate Professor
Department of Pharmacology and Chemical Biology
University of Pittsburgh

Globin X, nitrite and heart regeneration
Paola Corti, PhD
Research Assistant Professor
Division of Cardiology
Vascular Medicine Institute
University of Pittsburgh

Session 6  Conference Room B
Craniofacial Tissue Engineering
Co-sponsoring Institute/Center:
U24 Consortium

Organizer and Chair:
Alejandro Almarza, PhD
Associate Professor
Department of Oral Biology
School of Dental Medicine
University of Pittsburgh

Born Without an Ear: Current and Future Solutions for Congenital Auricular Deformities
Noel Jabbour, MD, MS, FACS
Assistant Professor
Department of Otolaryngology;
Fellowship Director
Division of Pediatric Otolaryngology;
Associate Director
Otolaryngology Residency Program;
Director, Congenital Ear Center
University of Pittsburgh

_4BD_
Juan Taboas, PhD
Assistant Professor
Department of Oral Biology
School of Dental Medicine
Department of Biomedical Engineering
Swanson School of Engineering
University of Pittsburgh

_4BD_
Heather Szabo-Rogers, PhD
Assistant Professor
Department of Oral Biology
Center for Craniofacial Regeneration
School of Dental Medicine
University of Pittsburgh

*Dental Stem Cells and Scaffold-free Tissue Engineering for Craniofacial Regeneration*
Fatima Syed-Picard, PhD
Assistant Professor
Department of Oral Biology
School of Dental Medicine
University of Pittsburgh

4:15- 4:30 PM  Break

4:30- 5:00 PM  Rapid fire presentations  Ballroom B
Organizer and Chair:
Andrew Duncan, PhD
Assistant Professor
Department of Pathology
University of Pittsburgh

Aaron Sun
Rocky Tuan Lab

Amanda Clark
Alan Wells Lab

Daniel Crompton
Tuesday March 6th

7:00 - 7:45 AM  Breakfast and Morning Mixer with Clinicians  Ballroom A
BioBreakfast Sponsored

8:00 - 10:00 AM  Pittsburgh Biomedical Breakfast  Ballroom A
Session 7
Organizer and Chair:
Christian Manders
Promethean LifeSciences, Inc.

Informal networking (30 minutes)

Opening Remarks: Comments on the 2018 JP Morgan Healthcare Conference
Christian Barrow (30 minutes)
Executive Director of Life Sciences
JP Morgan

And

George Santo
Vice President
Middle Market Life Sciences Banking
JP Morgan

Keynote Lecture: Unleashing AI and Data for Medicine
Nick Nystrom (one hour)
Director, Pittsburgh Supercomputing Center
Opening Doors to the Future of Cardiovascular Regenerative Medicine

Session 8

Organizers and Chairs:
Robert Kormos, MD, FRCS(C), FACS, FAHA
Brack G Hattler Professor of Cardiothoracic Transplantation
Professor Cardiothoracic Surgery and Bioengineering
Department of Cardiothoracic Surgery
Heart and Vascular Institute
University of Pittsburgh Medical Center

And

Alan Hirschman, PhD
Professor of Bioengineering
Swanson School of Engineering
University of Pittsburgh

Session objectives:
1) To be exposed to cutting edge Bioengineering and Regenerative Medicine for Cardiovascular diagnostic and therapeutic applications.
2) To provide challenging supportive feedback to investigators with new and evolving science by capitalizing on the collective strengths of experts from the University of Pittsburgh Center for Medical Innovation and the McGowan Institute for Regenerative Medicine
3) Encourage investigators to develop realistic timelines and mileposts for their research
4) Help new investigators focus on the value proposition of their work (What differentiates their work from the rest of the pack?)

Heart valve structure, functional heterogeneity and mechanics
Antonio D’Amore, PhD (15 Minutes)
Research Assistant Professor
Departments of Surgery and Bioengineering
University of Pittsburgh

Acute In Vivo Assessment of Tissue Engineered Heart Valves: Early Successes and Challenges
Garrett Coyan, MD (10 Minutes)
Integrated 6-year Residency Program (PGY4)-Department of Cardiothoracic Surgery
University of Pittsburgh Medical Center

Molecular Therapeutics for the heart using Ultrasound
Flordeliza Villanueva, MD (15 Minutes)
Professor of Medicine
Division of Cardiology
Vice Chair for Pre-Clinical Research
Department of Medicine
University of Pittsburgh

Sickle Cell Hemoglobin Replacement Therapy
Marina Kameneva, PhD (10 Minutes)
Research Professor of Surgery
University of Pittsburgh School of Medicine;
Professor of Bioengineering
University of Pittsburgh; and
Director of the Artificial Blood Program
McGowan Institute for Regenerative Medicine

Novel Biological Muscle Powered Heart Assist Device
Edgar Aranda-Michel, BS (15 Minutes)
MD/PhD Candidate
Medical Scientist Training Program (MSTP)
University of Pittsburgh and Carnegie Mellon University

Biomechanical Properties and Stress Mapping Dissection Probability Models in Ascending Aortas of Patients Sustaining Acute Type A Aortic Dissection
Leonid Emerel, MD (15 Minutes)
Integrated 6-year Residency Program (PGY5)-Department of Cardiothoracic Surgery
University of Pittsburgh

Biocarpet: A novel approach to peripheral arterial disease
Jonathan Vande Geest, PhD (10 minutes)
Professor
Department of Bioengineering
University of Pittsburgh

Q&A after each presentation

Translating the Science of Tissue Plasticity for Human Performance Optimization and Injury Prevention
Gold Room
Session 9
Organizer and Chair:
Brad Nindl, PhD, FACSM
Professor and Director
Neuromuscular Research Laboratory/Warrior Human Performance Research Center
Department of Sports Medicine and Nutrition
School of Health and Rehabilitation Sciences
University of Pittsburgh

Neurobiology Plasticity: Corticospinal basis of persistent functional deficits after traumatic musculoskeletal injury
Shawn Flanagan, PhD
Assistant Professor
Department of Sports Medicine and Nutrition
University of Pittsburgh
Muscle Plasticity: Interpreting contemporary treatments of soft tissue injury and prevention, of mice and men and muscle
Matt Kostek, PhD, FACSM
Assistant Professor
Department of Physical Therapy
Duquesne University

Bone Plasticity: “Exploiting the adaptive bone formation process to prevent stress fractures in Warfighters
Julie Hughes, PhD
Research Physiologist
U.S. Army Research Institute of Environmental Medicine

Endocrine Plasticity: “Role of the Insulin-Like Growth Factor-I (IGF-I) system in mediating the beneficial aspects of physical activity
Brad Nindl, PhD, FACSM
Professor and Director
Neuromuscular Research Laboratory/Warrior Human Performance Research Center
Department of Sports Medicine and Nutrition
School of Health and Rehabilitation Sciences
University of Pittsburgh

10:00-10:30 AM  
Break

10:30 AM-12:30 PM  
Morning Breakout Sessions -  
Session 10 Ballroom B
Cancer Immunotherapy
Organizer and Chair:  
Don Taylor, PhD, MBA, MS  
Founder and Executive Director  
sciVelo; and  
Assistant Vice Chancellor  
Commercial Translation in the Health Sciences  
University of Pittsburgh

Session Details:  
Cancer immunotherapy stimulates, or otherwise modulates, a person’s immune system to attack cancer cells. In this session, you will learn about the state of cancer immunotherapy, hear clinical and industry perspectives as well as stories of commercial translation and innovative solutions. Following short presentations, there will be an engaging panel discussion focused on cancer immunotherapy commercial translation and clinical use.

Session Objectives:
1) Showcase Pitt/UPMC as a leader in cancer immunotherapy  
2) Facilitate collaborations and discussions on commercial translation in cancer immunotherapy
Speakers:

**Vaccines for cancer prevention and a lot more**
Olivera Finn, PhD (15 minutes)
Distinguished Professor
Departments of Immunology and Surgery
University of Pittsburgh School of Medicine

**Tumor-derived exosomes as potential biomarkers in cancer**
Theresa Whiteside, PhD (15 minutes)
Professor of Pathology, Immunology, and Otolaryngology
University of Pittsburgh School of Medicine; and
Laboratory Director of Immunologic Monitoring and Cellular Products Laboratory
University of Pittsburgh Cancer Institute

**TBD: Clinical perspective**
Hassane Zarour, MD (tentative) (15 minutes)
Professor of Medicine, Immunology and Dermatology
University of Pittsburgh School of Medicine; and
Co-Leader, Melanoma Program
University of Pittsburgh Cancer Institute

**Developing multi-mechanistic cancer immunotherapies, experiences in academia and industry**
Stephen Thorne, PhD (15 minutes)
Assistant Professor
Departments of Surgery and Immunology
University of Pittsburgh School of Medicine; and
Leader of Small Animal Optical and Ultrasound Imaging Services
In Vivo Imaging Facility
University of Pittsburgh Cancer Institute

Break (10 minutes)

Panel Discussion (50 minutes)
Cancer immunotherapy commercial translation and clinical use

**Session 11**
**Pediatric Innovations**
Co-sponsoring Institute/Center:
Department of Pediatrics

Organizer and Chair:
George Gittes, MD
Benjamin R. Fisher Chair of Pediatric Surgery
Surgeon-in-Chief
Director of Surgical Research
Children’s Hospital of Pittsburgh; and
Professor of Surgery and of Pediatrics
University of Pittsburgh School of Medicine

Keynote Lecture: New Research Initiatives at Children’s Hospital of Pittsburgh of UPMC
Terence Dermody, MD
Vira I. Heinz Professor and Chair
Department of Pediatrics
Children’s Hospital of Pittsburgh; and
Professor of Microbiology and Molecular Genetics
University of Pittsburgh School of Medicine
Physician-in-Chief and Scientific Director, Children’s Hospital of Pittsburgh of UPMC

TBD
Erika Fink, MD, MS
Associate Professor
Critical Care Medicine and Pediatrics; and
Associate Professor
Clinical and Translational Science Institute
University of Pittsburgh

The Biomarkers for Infant Brain Injury Score (BIBIS): Improving Identification of Intracranial Hemorrhage in Infants and Young Children Using Serum Biomarkers
Rachel Berger, MD, MPH
Child Protection Team
Pittsburgh Child Advocacy Center
Children’s Hospital of Pittsburgh of UPMC; and
Director
Child Abuse Research
Safar Center for Resuscitation Research
University of Pittsburgh

Gene Therapy for Diabetes
George Gittes, MD

Session 12
Additive Manufacturing
Gold Room
Organizer and Chair:
Adam Feinberg, PhD
Associate Professor
Departments of Biomedical Engineering and Materials Science and Engineering; and
Principal Investigator, Regenerative Biomaterials and Therapeutics Group
Carnegie Mellon University

TBD
Ricky Solorzano (15 minutes)
CEO and Co-Founder
Allevi
TBD
Phil Campbell, PhD (15 minutes)
Research Professor
Institute for Complex Engineered System
Carnegie Institute of Technology
School of Engineering
Carnegie Mellon University

TBD
Hang Lin, PhD (15 minutes)
Research Assistant Professor
Center for Cellular and Molecular Engineering
Department of Orthopaedic Surgery
School of Medicine
University of Pittsburgh

TBD
Speaker Four – Academic Perspective (15 minutes)

Panel Discussion (30 minutes)

12:30-1:30 PM
Lunch
Ballroom B

1:30-2:30 PM
Pop-Up Workshops
Pediatric Device Prototyping
Organizer:
Mark McAnallen-Smithwise

About the workshop:
Clinical and technical innovators are key to solving some of the world's most challenging healthcare problems. However, developing a new medical technology can be a daunting task for most early-stage innovators. Smithwise, a medical device designer and developer with offices in Boston and Philadelphia, will provide a crash course on the Medtech process, from first prototype to FDA approval and beyond. Case studies highlighting diagnostics, wearables, surgical tools, and Class III implant devices will be used to illustrate the Medtech process in action

Sponsored Project Research Overview:
Successful Submission and Post Award Management
Organizer:
Brian Smith- McGowan Institute

About the workshop:
The purpose of this session is to provide participants with a broad overview of the various aspects involved in sponsored projects administration, including preparation of proposals
utilizing the University’s “Pitt Electronic Research Information Solution (PERIS) portal as well as financial and administrative management of funded grants. Staff members from McGowan Institute’s Fiscal Operations Department will present current information about University and departmental policies and procedures as they relate to the daily management of sponsored projects. Topics such as budgeting, purchasing, travel policies and reporting requirements will be discussed.

Pitt is Open for Business
Conference Room B
Organizer:
Brian Vidic - University of Pittsburgh

About the workshop:
In an effort to support Chancellor Gallagher’s “Pitt is Open for Business” proclamation, the University of Pittsburgh has introduced an initiative called “Making Research Work.” Making Research Work (MRW) enables University shared research facilities and labs to open themselves to work directly with industry and other external partners in a simple, transactional manner. Fee for Service, Third Party Lab Use, and Industry Co-Location are three of many new contract vehicles now in place and ready to use. This workshop will highlight how your Pitt facility or lab can work with the MRW team, how to get started, contract vehicles available, and how these new engagement pathways can broaden/strengthen relationships with industry.

2:30- 3:00 PM
Break

3:00- 5:00 PM
Afternoon Breakout Sessions –
Session 13
Novel Methodologies and Technologies to Detect and Analyze Genetic/Molecular or Physiological Markers of Clinical Interest
Chair: TBA

Breast Cancer Genetic Profiling
Nick Smith
Graduate Student Researcher
Department of Pharmacology and Chemical Biology
University of Pittsburgh

Bladder cancer biomarkers
Bill LaFramboise, PhD
Associate Professor
Department of Pathology
University of Pittsburgh Medical Center

ECG method to detect non-ST cardiac events
Salah Al Zaiti, PhD, RN, ANP-BC
Assistant Professor
Acute & Tertiary Care
School of Nursing
University of Pittsburgh

Orthostatic hypertension detection to predict falls
Eunice Yang, PhD
Assistant Professor
Department of Mechanical Engineering
University of Pittsburgh at Johnstown

Session 14
Drug Delivery
Organizer and Chair:
Morgan Fedorchak, PhD
Assistant Professor of Ophthalmology, Chemical Engineering, and
Clinical & Translational Sciences; and
Director, Ophthalmic Biomaterials Laboratory
University of Pittsburgh

Introduction to session
Morgan Fedorchak, PhD (5 minutes)

Citius, Altius, Fortius: Drug Delivery and the Generation, and Destruction, of Value in Drug
Development
Michael Hufford, PhD (30 minutes)
Vice President for Regulatory Affairs, Behavioral Science, and Innovation
Pinney Associates

Multiplexing Antibodies in Inflammatory Tissues
Wilson Meng, PhD (15 minutes)
Associate Professor of Pharmaceutics
Duquesne University

Shaping Up the Macrophage Polarization with Nanomaterials
Shilpa Sant, PhD (15 minutes)
Assistant Professor
Departments of Pharmaceutical Sciences and of Bioengineering
University of Pittsburgh

Skip-the-Line to Translation: Developing Formulations for Industry
Riccardo Gottardi, PhD (15 minutes)
Research Assistant Professor
Center for Cellular and Molecular Engineering
Department of Orthopaedic Surgery
University of Pittsburgh

Break (10 minutes)

Panel Discussion/Q&A (30 minutes)
Session 15
Strategic Planning Session: Optimizing Human, Materials and Systems Performance
Co-sponsoring Center: Center for Warfighter Readiness
Organizer:
Ron Poropatich, PhD
Executive Director
Center for Military Medicine Research
Health Sciences
University of Pittsburgh

Scope of Session: This session will focus on the keys aspects for optimizing human, materials and systems performance for military success on wide-spread multi-domain battlefields. Collectively we will chart a course for the future – with the goal of developing a strategic plan for initializing and executing a Center of Excellence focusing on warfighter readiness and maneuverability with degraded medical resources and encumbered combat mobility.

5:00 - 6:00 PM
Reception
William Pitt Union Ballroom

6:00 - 8:00 PM
Closing Banquet
Keynote Presentation: TBD
William Pitt Union Ballroom

Poster Awards- Sponsored by SciVelo