



McGowan Institute –Regenerative Medicine Summer School June 1-5, 2015

Announcing the 2nd Annual Regenerative Medicine Summer School

Objective:

- To provide national and regional students with a week-long didactic and experiential learning experience addressing the science and engineering related to the multidisciplinary field of regenerative medicine.

Target Audience:

- Undergraduates, enrolled in a science or engineering program that will have completed their 3rd year of study; exceptional candidates who will have completed their 2nd year of undergraduate study will be considered.

Venue:

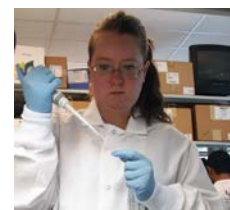
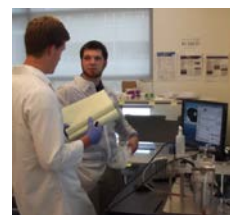
- McGowan Institute-Pittsburgh, PA
- June 1-5, 2015
 - Students will be provided accommodations in a University of Pittsburgh dormitory for the week
 - Please plan to arrive on May 31st and depart on June 6th

Tuition: \$695 includes room, board, and select social and networking events

Program Outline:

Combination of lecture and hands-on laboratory activities, including:

- Review of Laboratory Basics
 - Review – Chemical Hygiene
 - Cell culture basics
 - Sterile environments: procedures and precautions
- Tissue Engineering
 - Overview of Tissue Engineering
 - Biologically derived scaffolds
 - Immune response
 - Synthesized scaffolds
- Cell-Based Therapies
 - Overview of Cellular Therapies
 - Adipose derived cells and applications
 - Muscle derived cells and applications
 - Ectopic organogenesis
 - Whole organ tissue engineering



PAGE 2: McGowan Institute-Regenerative Medicine Summer School

- Medical Devices
 - Overview of Medical Devices in Regenerative Medicine
 - Respiratory Support
 - Circulatory Support
 - Burn therapy-Skin Gun
 - Organ Perfusion
- Clinical Translation and Commercialization
- Select social, networking and career counseling activities

Participating Faculty:

Bryan N. Brown, PhD-Course Director
Assistant Professor - Department of Bioengineering

Stephen F. Badylak, DVM, PhD, MD
Deputy Director-McGowan Institute; Professor of Surgery

Andrew Duncan, PHD
Assistant Professor in the Department of Pathology

William J. Federspiel, PhD
Professor of Bioengineering, Chemical Engineering and Surgery

Paulo Fontes, MD
Associate Professor of Surgery

Jörg C. Geralch, MD, PhD
Professor of Surgery

Johnny Huard, PhD
Professor of Orthopaedic Surgery, Molecular Genetics, Biochemistry, Bioengineering, and Pathology

Marina Kameneva, PhD
Professor of Surgery

Eric Lagasse, PharmD, PhD
Associate Professor of Surgery and Director of the McGowan Cancer Stem Cell Center

Kacey G. Marra, PhD
Associate Professor of Plastic Surgery and Bioengineering

Julie Philippi, PhD
Assistant Professor, Department of Cardiothoracic Surgery

William R. Wagner, PhD
Director-McGowan Institute; Professor of Surgery

PAGE 3: McGowan Institute-Regenerative Medicine Summer School

Application Procedure:

- **Application Deadlines:**
Applications for the 2015 Regenerative Medicine Summer School will be accepted starting January 1, 2015. The deadline for submitting the application and all required documentation is March 15, 2015. Applicants will be notified by the end of April 1st (via email) if they are selected as a final candidate. At that time, additional information and forms will be required to complete the application process. Final admission decisions will be made by April 15, 2015 and accepted students will be notified by letter.

- **How to Apply**
Please complete the application available at www.mirm.pitt.edu/events/SummerSchool2015.asp
And also submit with the following:
 - Official (sealed) copy of your transcript showing the last completed semester;
 - A letter of recommendation from a teacher or advisor;
 - Application essay (see questions on the application form);
 - Current resume.

Information:

- **Mailing Address**
McGowan Institute for Regenerative Medicine
Attention: Summer School Admissions Office
450 Technology Drive, Suite 300
Pittsburgh, PA 15219

- Email inquiries to Allyson LaCovey (lacoveya2@upmc.edu); Phone: 412-624-5308

- Listen to the podcast by Dr. Bryan Bryan-Course Director at www.regenerativemedicinetoday.com