



## McGowan Institute - Regenerative Medicine Summer School 2014 July 14-18, 2014

### Announcing the 1<sup>st</sup> Annual Regenerative Medicine Summer School

#### Objective:

- To provide national and regional students with a week-long didactic and experiential learning experience addressing 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 3<sup>rd</sup> year of study; exceptional candidates who will have completed their 2<sup>nd</sup> year of undergraduate study will be considered.

#### Venue:

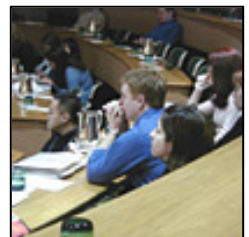
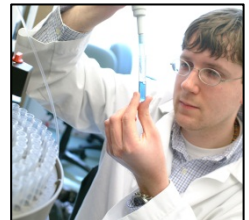
- McGowan Institute-Pittsburgh, PA
- July 14-18, 2014
  - Students will be provided accommodations in a University of Pittsburgh dormitory for the week (shared student suites)
  - Please plan to arrive on July 13<sup>th</sup> and depart on July 19<sup>th</sup>

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



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### Medical Devices

- Overview of Medical Devices in Regenerative Medicine
- Respiratory Support
- Circulatory Support
- Burn therapy-Skin Gun
- Organ Perfusion
  
- Clinical Translation and Commercialization
  - Overview of the path to a clinical trial
  - Clinical success stories
  - Commercialization-Success stories
  - Career pathways
  
- 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

Harvey S. Borovetz, PhD  
Deputy Director-McGowan Institute; Distinguished Professor of Bioengineering, Chemical Engineering and Surgery

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

Pratap S. Khanwilkar, PhD  
Professor of Bioengineering and Coulter Program Director

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

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

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

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#### Application Procedure:

- Application Deadlines  
Applications for the 2014 Regenerative Medicine Summer School will be accepted starting January 1, 2014. The deadline for submitting the application and all required documentation is March 30, 2014. Applicants will be notified by the end of April (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 May 15, 2014 and accepted students will be notified by letter.
- How to Apply  
Please complete the application at the end of this announcement (or use the interactive form at [www.mirm.pitt.edu/events/SummerSchool2014.asp](http://www.mirm.pitt.edu/events/SummerSchool2014.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.

#### Mailing Address:

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

Inquiries to Allyson LaCovey ([lacoveya2@upmc.edu](mailto:lacoveya2@upmc.edu)); Phone: 412-624-5308

Listen to the podcast by Dr. Bryan Bryan-Course Director at [www.regenerativemedicinetoday.com](http://www.regenerativemedicinetoday.com)



# McGowan Institute for Regenerative Medicine

*A program of the University of Pittsburgh and UPMC*

## Application for 2014 Regenerative Medicine Summer School

### McGowan Institute for Regenerative Medicine July 14-18, 2014

I. Personal Information

First Name:

Middle Name:

Last Name:

Gender: Female Male

Date of Birth (mm/dd/yy):

Email:

Home Phone:

Cell Phone:

II. University:

Address:

City:

State:

Zip:

II Academic Information

Current Grade: Junior                      Sophomore

Credits Earned:                                              GPA:

Undergraduate Major:                                      Undergraduate Minor (if applicable):

III. Reference:

Please provide contact information for your academic advisor

Full Name:

Email:

Title:

VI. To complete your application, on a separate paper— please respond to ONE of the following questions. Each essay should be 300-400 words and should be saved as a file named: Essay Question\_[your last name].

- Describe your vision of regenerative medicine in the next 10 years
- Why are you interested in science and/or engineering?

VIII. Applicant's Statement and Signature

Should I be admitted to Regenerative Medicine Summer School at the McGowan Institute-University of Pittsburgh, I agree that I will honor the University's academic and ethical standards and that I will abide by all requirements established by Summer School Programs concerning performance and conduct. I agree that Summer School Programs may dismiss any student whose performance is unacceptable or whose general conduct jeopardizes the community or is otherwise unacceptable.

I certify that all of the information contained in this application is factually correct, is honestly presented, and contains no significant omissions. If, at a later date, it becomes clear that this is not true, I agree Summer School may revoke any offer of admission it makes to me or dismiss me from the program.

Your name:

Your Signature: \_\_\_\_\_

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