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## New Frontiers 2017-18 Brochure

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New **Frontiers** 2017-18  
*in Biomedical Research*





# New Frontiers in Biomedical Research

## Impacts on Health and Society

*All seminars will be held at Louisiana Tech University in University Hall beginning at 3:30 p.m. Light refreshments will be served.*

Every day, new discoveries in the areas of biomedical engineering, biology, physics, and chemistry expand our understanding of human health and disease. As a University, we are part of that growing body of knowledge. Through interdisciplinary collaborations and interactions with leaders in these fields, we will continue to increase our own impact on science.

Please join us in welcoming and learning from nationally recognized researchers in our annual seminar series. You will learn about cutting-edge research that is changing the way we address problems in biological research and human health, and the tools we use to study them.

In 2013 the New Frontiers in Biomedical Research Seminar Series started as the first, year-long research seminar series at Louisiana Tech University. Over the past 4 years the series has brought in world-renowned researchers from a variety of biomedical fields as well as speakers on civic engagement and medical illustration. This year the series continues to grow and represent the interdisciplinary nature of biomedical research with seminars on immunotherapy, regenerative medicine, biomechanics, neuroscience, and medical visualization. Some of this year's highlights include Louisiana Tech graduate, Dr. Patrick Cobb, who will discuss new areas of cancer therapy and Dr. Deanna Gates, hosted by the Department of Kinesiology, who will present on the optimization of prosthetics. In the continued partnership with Louisiana Tech's School of Design, the series will host Mr. Scott Barrows, Director of Medical Visualization at Jump Trading Simulation and Education Center, who will present on the professional field of medical illustration and the need for visual communication of science. We are looking forward to another exciting year of learning about new areas of research and sharing the University's own research programs with our guests.



### ***Immunotherapy: How it Changed (Almost) Everything in Oncology*** **Monday, October 2, 2017**

**Dr. Patrick Cobb, MD, FACP**  
Medical Director, Director of Oncology Research  
St. Vincent Frontier Cancer Center, Billings MT

**Lecture Sponsors:** *Applied and Natural Sciences and Lincoln Health Foundation*



### ***Mechanisms Underlying Impaired Regeneration in Muscle Wasting*** **Monday, October 16, 2017**

**Dr. Jason Doles**  
Assistant Professor of Biochemistry & Molecular Biology  
Mayo Clinic

**Lecture Sponsors:** *School of Biological Sciences and College of Applied and Natural Sciences*



***Quantitative Dissection of Proteolytic Networks Governing Tissue Remodeling in Health and Disease***

**Monday, November 6, 2017**

**Dr. Manu Platt**

Associate Professor, Wallace H. Coulter Department of Biomedical Engineering  
Diversity Director, STC on Emergent Behaviors of Integrated Cellular Systems (EBICS)  
Georgia Research Alliance Distinguished Cancer Scholar  
Georgia Institute of Technology & Emory University

*Lecture Sponsor: College of Engineering and Science*



***Adipose-Derived Cells in Regenerative Medicine***

**Monday, December 11, 2017**

**Dr. Jeff Gimble**

CoFounder and CSO  
LaCell, L.L.C.

*Lecture Sponsors: Louisiana Tech University*



***Optimizing Prostheses-User Interaction to Enhance Performance***

**Monday, January 22, 2018**

**Dr. Deanna Gates**

Assistant Professor, Kinesiology, Biomedical Engineering and Robotics  
University of Michigan

*Lecture Sponsors: Department of Kinesiology*



***Prefrontal Cortex Dynamics Supporting Cognitive Control***

**Monday, February 19, 2018**

**Dr. Derek Nee**

Assistant Professor of Psychology and Neuroscience  
Florida State University

*Lecture Sponsor: Louisiana Tech University*



***The Digital daVinci: Advanced Applications in Medical Visualization***

**Monday, March 19, 2018**

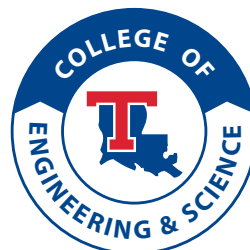
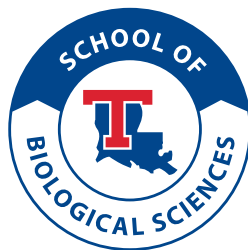
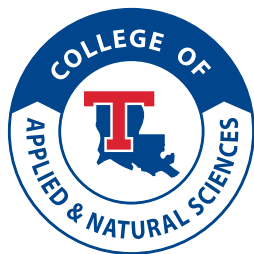
**Scott Barrows**

Director of Medical Visualization  
Jump Trading Simulation & Education Center  
OSF HealthCare  
University of Illinois College of Medicine Peoria

*Lecture Sponsor: Louisiana Tech University and VISTA*



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For additional information about this lecture series contact,  
Dr. Jamie Newman ([jjnewman@latech.edu](mailto:jjnewman@latech.edu)) or  
Dr. Mary Calderera Moore ([mcmoore@latech.edu](mailto:mcmoore@latech.edu)) or go  
to <http://biomedicalresearch.wixsite.com/new-frontiers>