

September 2019

## New Frontiers 2019-20 Brochure

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*New* **Frontiers** *2019-20*  
*in Biomedical Research*

Everyday, new discoveries in the areas of biology, biomedical engineering, physics, and chemistry expand our understanding of human health and disease.

LOUISIANA TECH UNIVERSITY



# New Frontiers in Biomedical Research

**All seminars will be held at Louisiana Tech University in University Hall beginning at 3:30 p.m. Light refreshments will be served. All events are open to the public.**

Established in 2013, the New Frontiers in Biomedical Research Seminar Series is a year-long research lecture series at Louisiana Tech University. This series brings world-renowned researchers from a variety of biomedical fields to campus where students and faculty have the opportunity to learn and interact with leaders in their fields of study. These seminars represent the interests and efforts of different colleges and academic programs across campus who share a passion for research that seeks to understand and improve human health and medicine.



**Tuesday, September 24, 2019**

**Update on Medical Research Aboard the International Space Station**

**Dr. Serena M. Auñón-Chancellor, M.D., MPH, FACP**

NASA, Astronaut

*Lecture Sponsors: Louisiana Tech University*



**Monday, November 4, 2019**

**Of Microbes and Man: Understanding the Role of Oncolytic Viruses in the Treatment of Cancer**

**Dr. John Stewart IV, M.D., MBA, FACS**

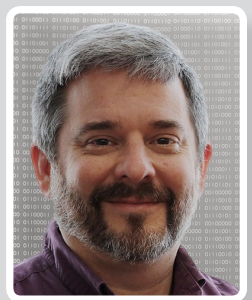
Presidential Scholar, University of Illinois

Professor of Surgery, University of Illinois College of Medicine at Chicago

Physician Executive for Oncology Sciences, University of Illinois Health

Associate Director for Clinical Sciences, University of Illinois Cancer Center

*Lecture Sponsor: College of Applied and Natural Sciences & School of Biological Sciences*



**Monday, December 16, 2019**

**21st Century (Q1-Q2) Bio-Computing: Systems, Algorithms, Data, Science**

**Dr. F. Alex Feltus, Ph.D.**

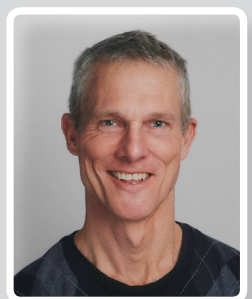
Professor, Clemson University Dept. of Genetics & Biochemistry

CU-MUSC Biomedical Data Science & Informatics Program

Clemson University Center for Human Genetics (Member)

Allele Systems LLC (CEO)

*Lecture Sponsors: School of Biological Sciences*



**Monday, January 13, 2020**

**21st Century Research and Care for Parkinson Disease**

**Dr. Karl Kieburtz, M.D., MPH**

Professor of Neurology, University of Rochester

*Lecture Sponsors: Louisiana Tech University and Louisiana Tech Parkinson Resource Center*

## Impacts on Health and Society



**Monday, February 10, 2020**

**Early Prevention: Breaking the Link Between Genetic Risk and Developmental Psychopathology**

**Dr. Kathryn Lemery-Chalfant, Ph.D.**

Professor, Arizona State University

*Lecture Sponsors: ENRICH Center & College of Applied and Natural Science*

**Monday, March 23, 2020**

**Prediction Science: An Emerging New Field**

**Dr. Chris Gilbert, M.D., Ph.D**

President and COO of Discovery Democracy LLC

**Dr. Eric Haseltine, Ph.D.**

Chairman of the Board of the US Technology Leadership Council

Former CTO of the US Intelligence Community

Former Director of Research at NSA

*Lecture Sponsor: Louisiana Tech University*



**Monday, March 30, 2020**

**ImmunoEngineering and Biomanufacturing- Emerging Frontiers in Biomedical Engineering**

**Dr. Krishnendu Roy, Ph.D.**

Robert A. Milton Chaired Professor, Georgia Institute of Technology

Director, NSF Engineering Research Center (ERC) for Cell Manufacturing Technologies (CMaT)

Director, Marcus Center for Therapeutic Cell Characterization and Manufacturing (MC3M)

Director, Center for ImmunoEngineering at Georgia Tech

The Wallace H. Coulter Department of Biomedical Engineering at Georgia Tech and Emory

The Parker H. Petit Institute for Biosciences and Bioengineering

*Lecture Sponsor: College of Engineering and Science & Center for Tissue Engineering and Regenerative Medicine*



**Monday, April 20, 2020**

**Simulation in Medical Science and Communication**

**Dr. Aimee Roundtree, Ph.D.**

2020 Eunice C. Williams Scholar in Health and Medical Communication

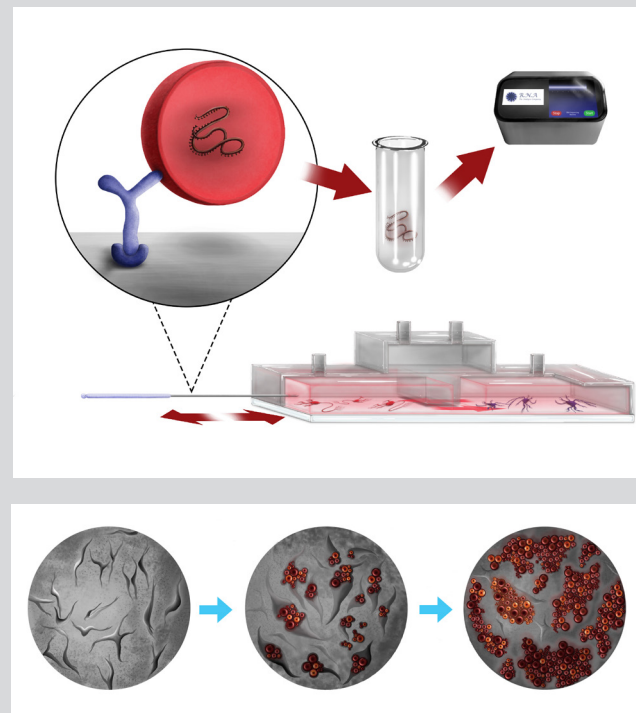
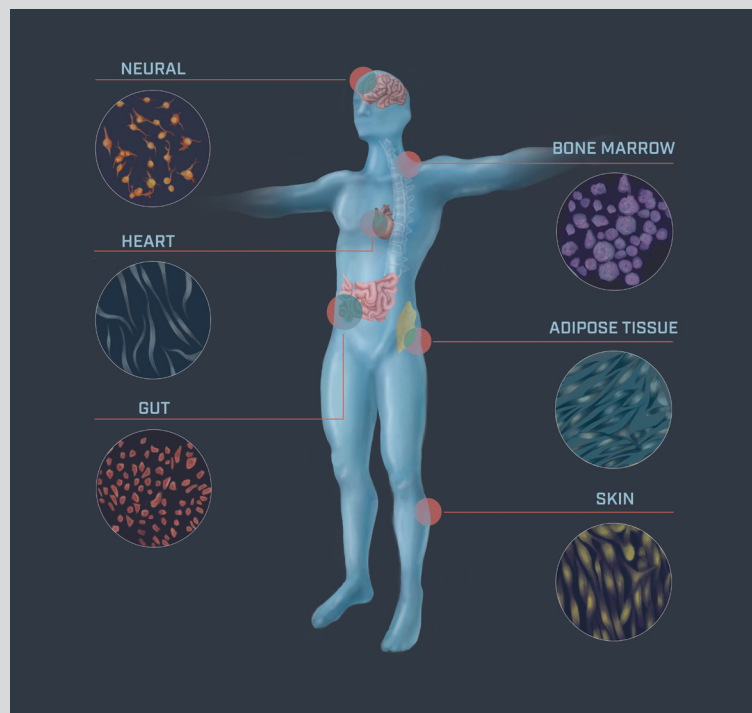
Associate Dean of Research in the College of Liberal Arts

Professor and Director of the Master of Arts in Technical Communication Program

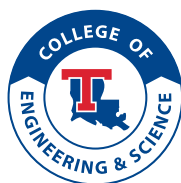
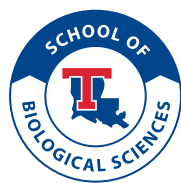
Texas State University

*Lecture Sponsor: Louisiana Tech University Technical Communication Program and Eunice C. Williamson Endowment*





## SPONSORS



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**Special thanks to members of the Tech and Ruston communities for their generous donations.**

For additional information about this lecture series contact, Dr. Jamie Newman (jjnewman@latech.edu) or Dr. Mary Caldorera-Moore (mcmoore@latech.edu) <https://digitalcommons.latech.edu/new-frontiers-biomedical-research/>

Visual Integration of Science Through Art (VISTA) is an interdisciplinary partnership that brings together faculty from various areas of art, communication, science, and engineering to train students in visual communication. VISTA is focused on using imagery to communicate complex medical and scientific information so that the material can be universally understood, eliminating barriers created by education and language. Students work with research faculty and community partners to develop useful imagery to communicate research ideas, new technologies, and critical health information. To learn more about VISTA and see other examples of student work visit [www.latech.edu/vista](http://www.latech.edu/vista).