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New Frontiers 2014-15 Brochure

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New **Frontiers**
in Biomedical Research



Louisiana Tech University

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. Seminars will be recorded for remote viewing (follow QR code on the next page).

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 academic 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.

SPECIAL LECTURES

Please join us for two special lectures by Dr. Nicholas Peppas and Dr. Robert Clarke. Dr. Peppas will discuss current advances in diabetes-related research, diagnosis, and treatment. Dr. Clarke will present recent advancements in cancer research, prevention, and treatments. These lectures are open to the public and will begin at 6:00 p.m. with refreshments to follow. Dr. Peppas will present on Monday, September 15, 2014, in Louisiana Tech's University Hall 134, and Dr. Clarke will present on Monday, March 23, 2015, in Louisiana Tech's Institute for Micromanufacturing Auditorium.



Intelligent and Recognitive Nanoscale Systems for New Therapeutic Applications **September 15, 2014**

Dr. Nicholas Peppas

Professor of Chemical Engineering, Biomedical Engineering, and Pharmacy
Chair of the Department of Biomedical Engineering
The University of Texas at Austin

Lecture Sponsor: Lincoln Health Foundation



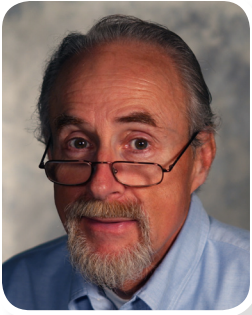
Clinical Cytogenetics: From Microscope to Microarray Clinical Cytogenetics: the Original Whole Genome Scan

October 20, 2014

Dr. Jennie Thurston

Director, Cytogenetics Carolinas Pathology Group
Adjunct Professor
Indiana University School of Medicine

Lecture Sponsors: Applied and Natural Sciences and Biological Sciences



When the Sleepers Wake: The Germination of Bacterial Spores

December 8, 2014

Dr. Peter Setlow

Board of Trustees Distinguished Professor of Molecular Biology and Biophysics
University of Connecticut Health Care Center

Lecture Sponsor: CBERS



Biomimicry vs Bioklepticism: Biofunctionalization of Extruded Polymer Nanofibers and Viruses as Templates for Precision Polymer Nanoparticles

February 9, 2015

Dr. Jon Pokorski

Assistant Professor, Department of Macromolecular Science
Center for Layered Polymeric Systems (CLiPS)
Case Western Reserve University

Lecture Sponsor: CBERS



Modeling Endocrine Resistance in Breast Cancer

March 23, 2015

Dr. Robert Clarke

Dean for Research
Professor of Oncology
Georgetown University Medical Center

Lecture Sponsors: Sigma Xi and Lincoln Health Foundation



Mesenchymal Lineage Stem Cells are Potent Anti-Inflammatory Mediators

April 20, 2015

Dr. Bruce Bunnell

Director, Center for Stem Cell Research and Regenerative Medicine
Professor, Department of Pharmacology
Tulane University School of Medicine

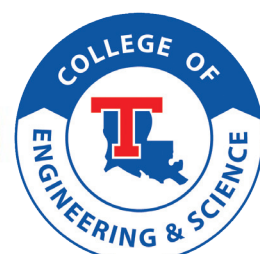
Lecture Sponsor: ADVANCEing Women in Science



Scan the QR code to watch all of the previously recorded Frontiers in Biomedical Research seminar lectures.



Sponsors



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 go to <http://coes.latech.edu/about-the-college/events.php>.