



# RISING STARS of Regenerative Engineering

# THE DYNAMIC OF STUDENTS AND RESEARCH PRECEPTORS

A Webinar Series from [The Cato T. Laurencin Institute for Regenerative Engineering](#) at the University of Connecticut

Hosted and Moderated by [Dr. Gualberto Ruaño](#)  
Assistant Director for Special Projects,  
[The Cato T. Laurencin Institute for Regenerative Engineering](#)

Beyond the science, the webinars will address the personal dimensions of research training. What is the ideal environment to train young scientists? What are the barriers? How does the young scholar mesh into the fabric of the organization?

Attendees to the webinars will appreciate contemporary science in regeneration and the dynamics of transferring that science to the next generation in the enterprise. Participants are selected from the Cato T. Laurencin Institute for Regenerative Engineering's signature T32 Doctoral and Young Innovative Investigator Programs, as well as UConn's graduate training.

The Cato T. Laurencin Institute for Regenerative Engineering is producing this series in partnership with the [Advanced Regenerative Manufacturing Institute \(ARMI\)](#). The webinars will inform participants and the audience on the perspective of young scientists in training conducting research in regenerative engineering supplemental by the interaction with their research preceptors.



# UConn

THE CATO T. LAURENCIN  
INSTITUTE FOR  
REGENERATIVE ENGINEERING

**April 07, 12:00 PM**

**A Colloidal GelMA-Based Bioink with Anti-Inflammatory Effects**

Trainee: Ryeim Ansaf  
Preceptor: Ali Tamayol, PhD, Associate Professor  
Department of Biomedical Engineering, University of Connecticut

**Regenerative Responses in Human Articular Cartilage ex vivo**

Trainee: Arianna Lucia Cedeno  
Preceptor: Caroline N Dealy, PhD, Professor, Orthodontics,  
School of Dental Medicine; Department of Biomedical Engineering,  
University of Connecticut

**April 14, 12:00 PM**

**The Use of Combined Nanofibers and Amnion Membrane for Digit Tip Regeneration**

Trainee: Zaliya Anthony  
Preceptor: Sir Cato T. Laurencin, MD, PhD, KCSL, University Professor,  
Albert and Wilda Van Dusen Distinguished Professor of Orthopaedic Surgery;  
Professor of Orthopedic Surgery;  
Professor of Chemical and Biomolecular Engineering  
Professor of Materials Science and Engineering;  
Professor of Biomedical Engineering;  
Chief Executive Officer, The Cato T. Laurencin Institute  
for Regenerative Engineering

Associate Preceptor: Lakshmi Sreedharan Nair,  
MPhil, PhD, FNAI, FAIMBE, FBAO  
Deputy Director, The Cato T. Laurencin Institute for Regenerative  
for Regenerative Engineering;  
Director, Skeletal Biology and Regeneration Area of Concentration -  
Biomedical Science PhD program

**A Light Soft Actuated Bionic Regenerative Engineering (Light SABRE) Brace System Promotes Cartilage Regeneration and Reversal of Pathology in Rabbit Model of Osteoarthritis**

Trainee: Madison Hicks  
Preceptor: Sir Cato T. Laurencin, MD, PhD, KCSL  
Associate Preceptor: Lakshmi Sreedharan Nair, MPhil, PhD, FNAI, FAIMBE, FBAO

**April 21, 12:00 PM**

**Regenerating Osteochondral Defects with PLGA Based Gradient Porous Scaffolds**

Trainee: Srivaibhav (Sri) Gudipudi  
Preceptor: Sir Cato T. Laurencin, M.D., PhD, KCSL  
Associate Preceptor: Lakshmi Sreedharan Nair,  
MPhil, PhD, FNAI, FAIMBE, FBAO

**Investigation of Amnion membrane allograft to regenerate cartilage in knee osteoarthritis**

Trainee: Caleb Womack  
Preceptor: Sir Cato T. Laurencin, MD, PhD, KCSL  
Associate Preceptor: Lakshmi Sreedharan Nair,  
MPhil, PhD, FNAI, FAIMBE, FBAO

**April 28, 12:00 PM**

**Medicine Made in Space: Manufacturing a Janus Base Nano-Matrix in Microgravity to Improve Chondrogenesis on Earth**

Trainee: Maxwell Landolina  
Preceptor: Yupeng Chen, PhD, Associate Professor  
Department of Biomedical Engineering, University of Connecticut