



Dr. Yonghui Ding

Research Assistant Professor
Center for Advanced
Regenerative Engineering,
Department of Biomedical
Engineering
Northwestern University

Mar 24(Fri)

11:30am - 1:00pm

CKB 303

Additive Manufacturing for Regenerative Engineering

Abstract:

Biomaterial scaffolds have emerged as powerful tools within regenerative engineering. In this talk, I will describe how materials science and additive manufacturing technologies can be leveraged to produce regenerative scaffolds with instructive 3D properties for tissue regeneration. I will focus on the development of 3D-printed, bioresorbable vascular scaffolds for the treatment of atherosclerotic vascular diseases. I will also briefly discuss my current effort and future interest in the development of strong living scaffolds for the regeneration of load-bearing tissues.

About the Speaker

Yonghui Ding is currently a Research Assistant Professor of Biomedical Engineering at Northwestern University. He received his master's degree in Biomedical Engineering in 2011 and doctoral degree in Mechanical Engineering in 2014 from the Hong Kong University of Science and Technology at Hong Kong. Afterwards, he completed his postdoctoral training at the University of Colorado, Boulder in 2019. His research interest is on the integration of materials science and additive manufacturing for tissue regeneration with the long-term goal of providing clinically relevant solutions to patients. Dr. Ding was a recipient of the Best Young Scientist Award at the 4th Asian Biomaterials Congress (2014), American Heart Association Career Development Award (2021), and NIH NIBIB Trailblazer R21 Award (2022). He is passionate about teaching, educating, and training the next generation of workforce in regenerative engineering. He has also been looking to expand his skills as a professional STEM educator. He is a certificated CIRTIL Associate and was a recipient of the Best Teaching Assistant Award (2012).