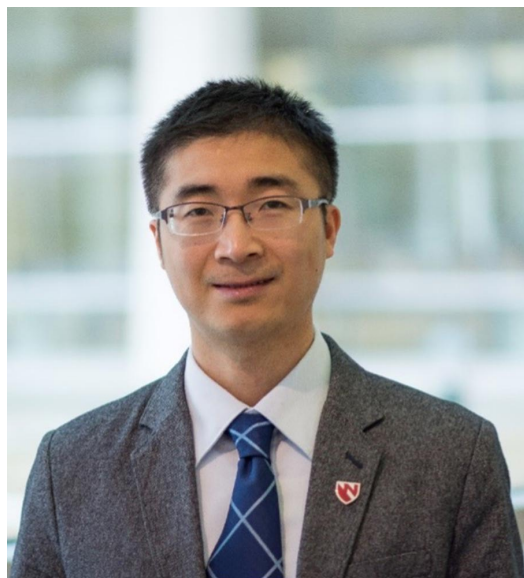


SEMINAR SERIES

Supported by The Department of Biomechanics and
The Center for Research in Human Movement Variability (MOVCENTR)



Multimaterial and Multiscale Biofabrication for Tissue Regeneration

Featuring Dr. Bin Duan
University of Nebraska Medical Center

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Friday, March 25 | 12:00 - 1:15 pm | Via Zoom

<https://unomaha.zoom.us/j/92012305734>

PRESENTATION ABSTRACT

Advanced biofabrication techniques in combination with biomaterial development and biological sciences open many possibilities for the generation of complex engineered constructs for tissue regeneration. Dr. Duan's group is interested in developing and implementing various engineered platforms to enhance tissue regeneration and protection. In this talk, he will present the application of a series of 3D bioprinting strategies along with various newly synthesized biomaterials for the fabrication of biomedical devices and biomimetic tissue constructs. He will also discuss recent efforts on developing engineered approaches for peripheral nerve regeneration and studying related pain behaviors and neuroplasticity. These platform technologies will promise to construct functional tissues and disease models with multiscale features for therapeutic applications.

ABOUT DR. DUAN

Dr. Duan received his Ph.D degree in the University of Hong Kong. He had his postdoc training in the Department of Biomedical Engineering at Cornell University. He joined UNMC in November 2015. He has won the Postdoc Fellowship and Scientist Development Grant Award from American Heart Association in 2013 and 2017. Dr. Duan is also recipient of New Investigator Award and Gilmore Distinguished New Investigator Award from UNMC and Young Investigator Award from Chinese Association of Biomaterials. Dr. Duan's lab focuses on development of novel biomaterials and advanced biofabrication techniques. The research goal of Dr. Duan's lab is to create multi-scale complexity within engineered tissues to understand the fundamentals of cell-material interactions and mimic the native tissues for tissue regeneration.

more info at cobre.unomaha.edu

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