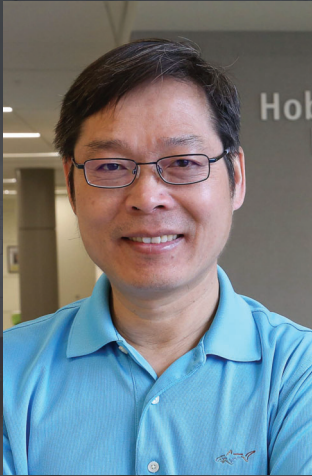


## FEATURED SPEAKER



**SHIHUAN KUANG,  
PHD**

*Cancer Center Chair in Stem Cell Biology, Professor of Animal Sciences, Purdue University*

Dr. Kuang received his PhD in physiology and cell biology from University of Alberta. After postdoctoral training at Washington University and Ottawa Hospital Research Institute, he started his own research group at Purdue University in 2008.

Dr. Kuang has made several fundamental discoveries that have advanced the knowledge of muscle- and adipose-tissue development. These discoveries include determining the role Notch signaling plays in cell-fate determination of skeletal muscle stem cells and cell plasticity of adipose stem cells. He has also contributed to the understanding of the developmental origins and molecular regulation of fat and muscle cells, and the crosstalk between these cells that governs tissue homeostasis. His research has led to 150+ publications that has together received 12,000+ citations, and research awards from MDA, NIH, USDA and many other industry partners and funding agencies.

SPRING 2024

# SEMINAR FOR NEUROTRAUMA AND DISEASES

SPONSORED BY



PRESENTS

## UNEXPECTED NEW ANIMAL MODELS OF NEUROMUSCULAR DISEASES

**Date:** February 7, 2024

**Time:** 4:00 p.m. - 5:00 p.m. EST

**Location:** DLR 131

**Zoom Link:** <http://bit.ly/42hhhJG>

**Meeting ID:** 923 5486 2062    **Passcode:** CPR

### ABSTRACT

Animal models are critical tools for biomedical research. My laboratory uses Cre/LoxP conditional knockout (KO) and overexpression (OE) mice models to study gene regulation primarily in the skeletal muscle and adipose tissues. Over the years we have developed more than 50 lines of conditional KO and OE models. Analysis of these models has led to some unexpected phenotypes. In this talk, I will present a handful of new models that develop neuromuscular dysfunctions with known or unknown genetic basis. These models may provide new insights into the cellular and molecular mechanisms underlying some neuromuscular diseases in humans.



Center for Paralysis Research