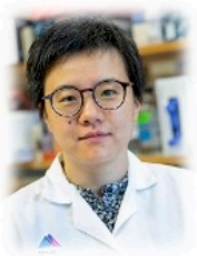
Perelman School of Medicine
University of Pennsylvania

NIDDK P30 Center for Molecular Studies in Digestive and Liver Diseases

Research Seminar



Sammi (Shuang) Wang, PhD
Assistant Professor
Medicine, Liver Diseases
Icahn School of Medicine at Mount Sinai

"Seq-ing" Insights Into Tissue Injury and Regeneration Using the Mammalian Liver as Model"

Thursday, May 25, 2023
12:00 – 1:00 PM EST
901 Biomedical Research Building or Via Zoom

In my doctoral research I made the surprising discovery that genetic changes induced by an important class of environmental carcinogens, the aromatic amines, failed to correlate with liver tumor formation. Subsequently I identified a novel oxidization pathway for the model aromatic amine 4-aminobiphenyl, that leads to redox imbalances and may contribute to liver tumor burden. I was also involved in a successful collaboration that led to improved differentiation of ESC and iPSC into hepatocytes. Together these discoveries shaped my research interest in "epi-genetic" factors that control liver development and regeneration. In my postdoctoral training I began to explore how the epigenome regulate liver biology, leading to the discovery of a novel layer of epigenetic crosstalk that improves the regeneration capacity of the mammalian liver. I am currently investigating how epigenomic reprogramming affects hepatic stellate cell biology in the laboratory of Dr. Scott Friedman who first established these cells as the driver of liver fibrosis.

Please visit https://www.med.upenn.edu/CMSDLD/
for more information about past and future seminars.