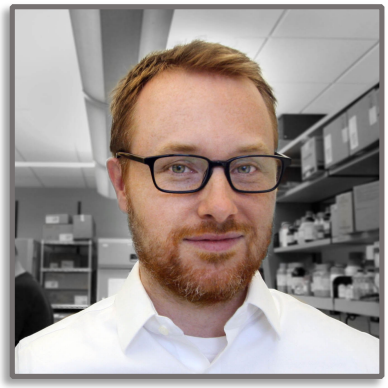

H. Courtney Hodges, PhD
Assistant Professor
Molecular and Cellular Biology

Regulation of metabolism in SWI/SNF-deficient Lung Adenocarcinoma

H. Courtney Hodges, Ph.D. is a CPRIT Scholar and assistant professor in the Department of Molecular & Cellular Biology at Baylor College of Medicine. Dr. Hodges's work has focused on the intersection of chromatin biology, cancer epigenetics, and the development of new technologies. Ten years ago, Dr. Hodges revealed the fundamental mechanisms used by RNA polymerase 2 to overcome the barrier of a nucleosome during transcription elongation. He also used single-molecule methods to reveal the codon-by-codon stepping of the ribosome and other molecular motors. More recently, Dr. Hodges and colleagues have revealed that BAF (SWI/SNF) and PBAF complexes are major tumor suppressors mutated in ~20% of all cancers. Prior to his appointment at BCM, Dr. Hodges was a postdoctoral fellow in the Department of Pathology at Stanford University in the lab of Dr. Gerald Crabtree. In 2018, he was bestowed the Medical Research Award from the Gabrielle's Angel Foundation for Cancer Research, and the V Scholar Award from the V Foundation. His lab is also affiliated with the BCM Center for Precision Environmental Health, Rice University Department of Bioengineering, and the MD Anderson Center for Cancer Epigenetics.