



***Sarah Owen***

Thesis Defense

College of Science and Engineering Technology

Department of Biological Sciences

M.S., Biology

**Colorado Tick Fever Virus-Mediated Apoptosis in  
Human Endothelial Cells**

This study evaluates the induction of proteins involved with apoptotic pathways during Colorado tick fever virus (CTFV) infections in human endothelial cells. CTFV is a tick-borne virus and is the causative agent of Colorado tick fever (CTF). Around 20% of patients with CTF require hospitalization and severe clinical manifestations affecting the central nervous system can develop in pediatric patients, however, no drug therapy exists for CTF and there is little information on the mechanisms underlying CTFV-induced pathology during infection. The involvement of the intrinsic and extrinsic pathways of apoptosis during CTFV infection in human endothelial cells was evaluated in this study.

Event Information

Date: 27 March 2023

Time: 1 PM- 4 PM

Location: LSB 400M

Committee Members

Dr. Mardelle Atkins

Dr. Aaron Lynne

Dr. Anne Gaillard

Dr. Jim Harper

Dr. Jeremy Bechelli



**Sam Houston State University**

**PUBLIC DEFENSE ANNOUNCEMENT**