

# CHAMP



## Genomics of Exertional Related Events (EREs) Associated with Sickle Cell Trait

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### Our Goals:

Collect scientific data needed to guide more evidence-based and prudent treatment and policy decisions that impact the Sickle Cell Trait (SCT) population in both civilian and military sectors.

### Our Plans:

Enroll African American men and women between ages 18-80 who have SCT:

300 SCT carriers who have had Exertional-Related Events (EREs):

- Exertional Rhabdomyolysis
- Exertional Heat Stroke
- Exertional Collapse

150 SCT carriers who have never had EREs despite their rigorous exercise regimen

Enroll 150 immediate family members of these SCT carriers, with and without ERE

Identify and compare genetic variants between SCT carriers with ERE and without ERE

### How you can contribute:

Participate by donating blood, completing a questionnaire, and providing brief medical history



### What we will do:



Extract genetic material  
Screen whole genome



### What we expect to find:

Genetic variants associated with EREs in SCT carriers that will help us develop markers to determine who may be susceptible to EREs prior to an event.

**Contact CHAMP, USU for further details.**

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