

RESEARCH SUBJECTS NEEDED!

Study Title: Neurophysiology of Cognitive-Motor Interactions in Individuals with Trisomy 21 or Autism Spectrum

Disorders with a History of Head Injury

Principal Investigators: Edward Freedman, PhD & John Foxe, PhD

Cognitive Neurophysiology Lab

“Brain Activity During Movement Across Development”

Subjects must be:

- Diagnosed with or without a **Trisomy 21 (Down Syndrome) OR Autism Spectrum Disorder (ASD)**
- Diagnosed with or without a previous **concussion or head/brain injury**
- Are between **8-30 years of age**
- Able to walk independently without walking aids such as crutches
- Under no influence of alcohol or illegal drugs
- Normal or corrected-to-normal vision

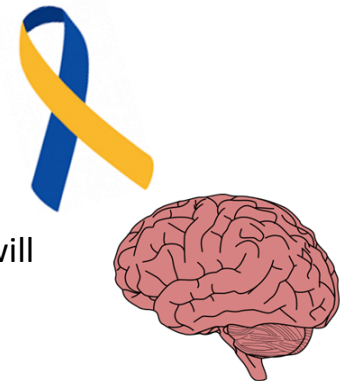
❖ The purpose of this study is to understand brain function in children & young adults with and without Trisomy 21 and ASD using eye tracking, electroencephalography (EEG), and motion tracking. We are especially interested in how a head injury may affect the ability to perform motor and cognitive tasks at the same time.

❖ The study will involve 2 visits to our site

❖ We will ask you to complete an interview, several questionnaires & we will access your electronic medical record

❖ We measure your brain activity using EEG (electroencephalography) and simultaneously monitor your walking with motion capture.

❖ Subjects will be paid \$18 per hour for participation



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