2) Ataxia-Telangiectasia (A-T): One grant of $129,898 has been made possible by Team Derek’s Dreams and the A-T Children’s Project to develop and train digitally based systems that can capture and analyze neurological data from children and young adults who have A-T. The awarded investigator will seek to use video, audio and multi-axis wearable device technologies to identify and validate data signatures that are specific to A-T and pattern changes that correlate with disease progression and severity of symptoms. A successful project will enable other researchers developing therapeutics for A-T to use these systems to make more precise and objective measurements of the A-T neurological phenotype in clinical trials, even when they are run across multiple sites. It is expected that artificial intelligence approaches such as unsupervised machine learning may be drawn on to identify clinically useful digital signatures.