

Chad Hyer is an undergraduate researcher at Brigham Young University and is majoring in molecular biology. He is a member of the JC Price Lab group and researches applications of mass spectrometry in calculating in-vivo protein folding stability. Chad was involved in the development of the Iodine Protein Stability Assay (IPSA) and developed the software CHalf for use in calculating protein folding stability from mass spec outputs from IPSA, SPROX, and TPP. Chad's research focuses on applications of measuring folding stability in understanding disease pathophysiology, improving methods of diagnosis and treatment, and in experimentally deducing in-vivo protein structure. He is currently working on a protein folding stability census of the human serum proteome and examining the effects of mutations on folding stability in individuals with hereditary TTR amyloidosis.