Project: Targeting the cardiac pathology in mucopolysaccharidosis type I

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Project description: Performance of cardiac ultrasound on wild type and mice genetically engineered to have mucopolysaccharidosis, a genetically inherited disorder seen in children. The mice have cardiac abnormalities that are followed by sequential cardiac ultrasounds. The student will assist the PI in recording the data during the performance of the echo, will learn to perform basic cardiac ultrasound calculations and will make these calculations in real time during the echo. At a separate time, the student will calculate average values for several other ultrasound measurements and record them. The lab is in CCRB. Work hours vary be about twice a month for a few hours, otherwise it would be 1-2 hrs/wk. The work would start any time and last 3-4 months. The work product would include routine statistical analyses.

Expected Student Outcome: Dependent upon the successful participation of the student, he/she will be listed as a co-author on the publication.