



Supplementary Figure 1 shows hematoxylin and eosin-stained sections. **A** Shows the staining of a control sample. **B** Depicts a patient with mild FSHD, where scattered myopathic changes, such as variability in muscle fiber size, fiber splitting, and internalized nuclei, can be observed. **C** Illustrates a patient with severe FSHD, showing widespread degenerative alterations, including muscle fiber atrophy, fibrosis, and fatty infiltration, which are typical of advanced-stage muscular dystrophies.