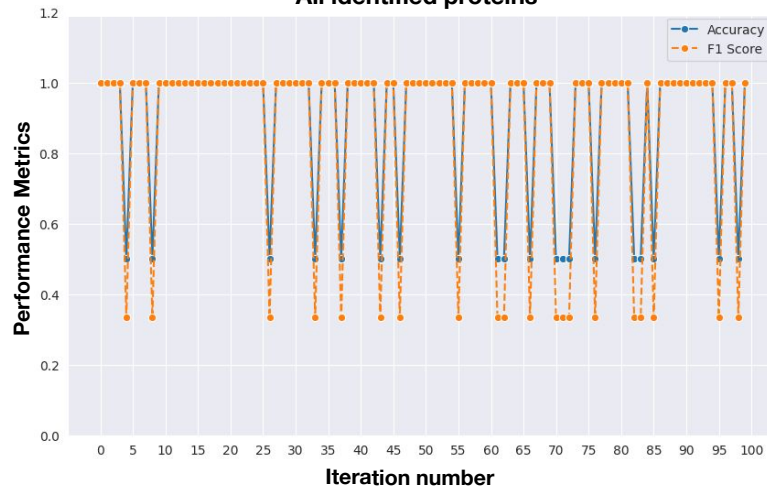
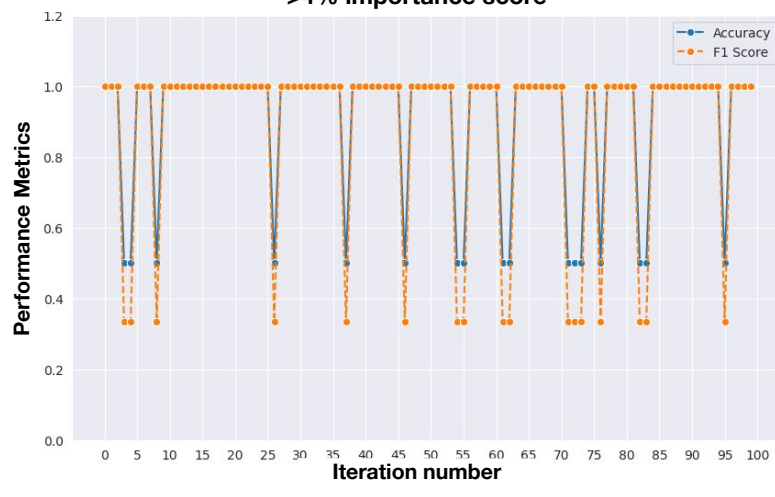
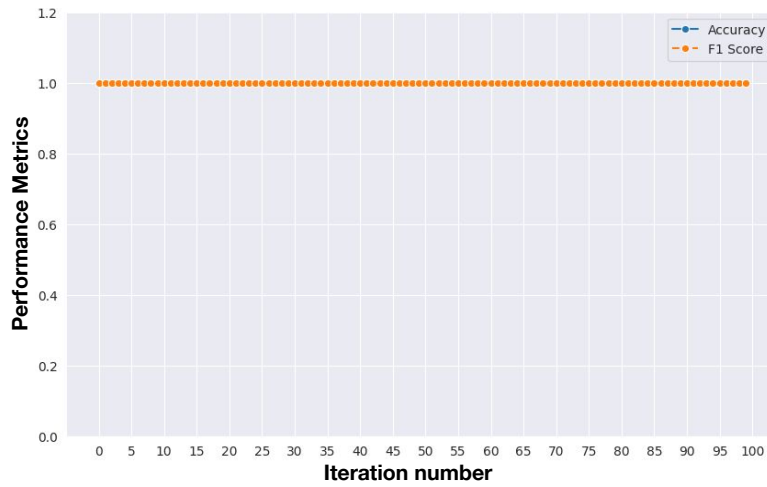
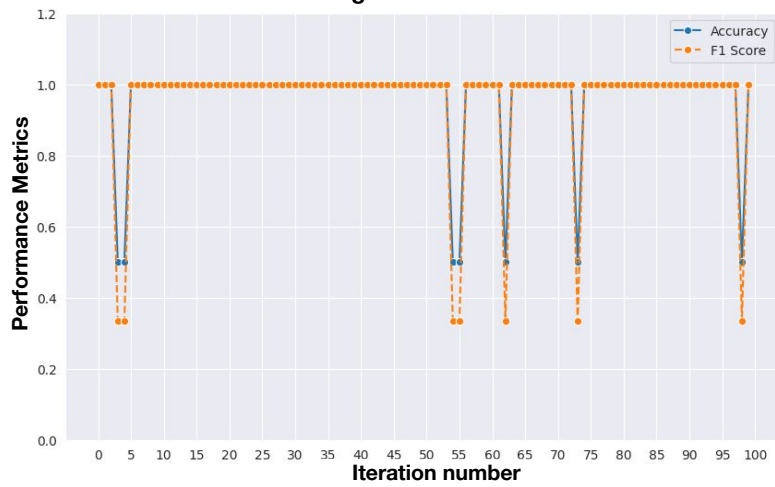
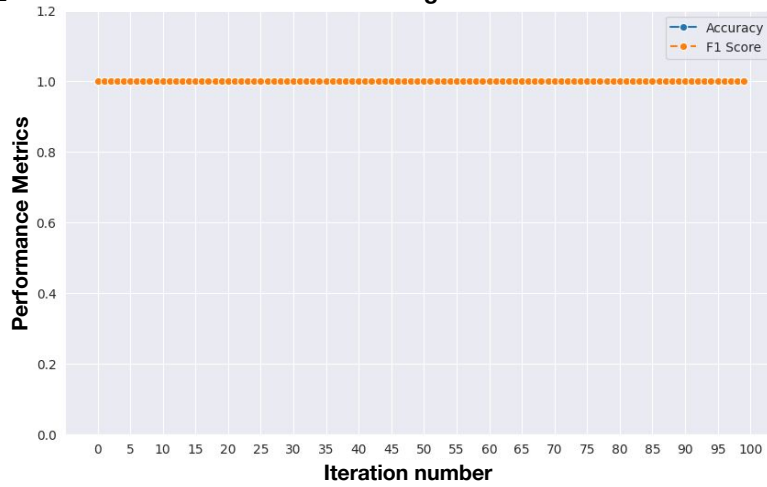
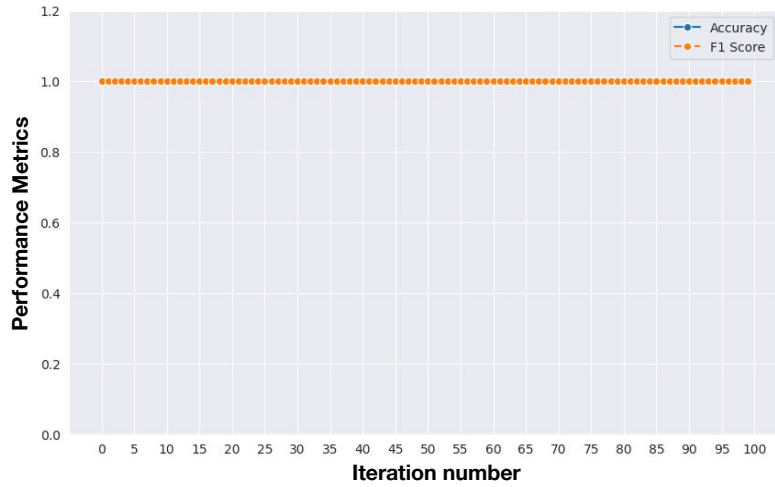


A**All identified proteins****B****>4% importance score****C****PGS1/K1C13/FETUA/K2C1/CO3A1/THRB/SEMG1****D****Removing THRB and SEMG1****E****Removing K2C1****F****PGS1/K1C13/CO3A1**

Supplementary Figure 3. Variable screening for tibia semitryptic proteins selected iteratively based on their importance scores and SHAP values.

A. Model using identified hyperparameters and the full set of representative proteins. B. Model using 11 proteins displaying >4% importance score, followed by the elimination of proteins based on SHAP values. C. Model using PGS1, K1C13, FETUA, K2C1, CO3A1, THRB, and SEMG1. D. Proteins THRB and SEMG1 were discarded for the model in C. E. Subsequent modeling with the elimination of K2C1. F. Final model using the minimal set of three proteins: PGS1, K1C13, and CO3A1.