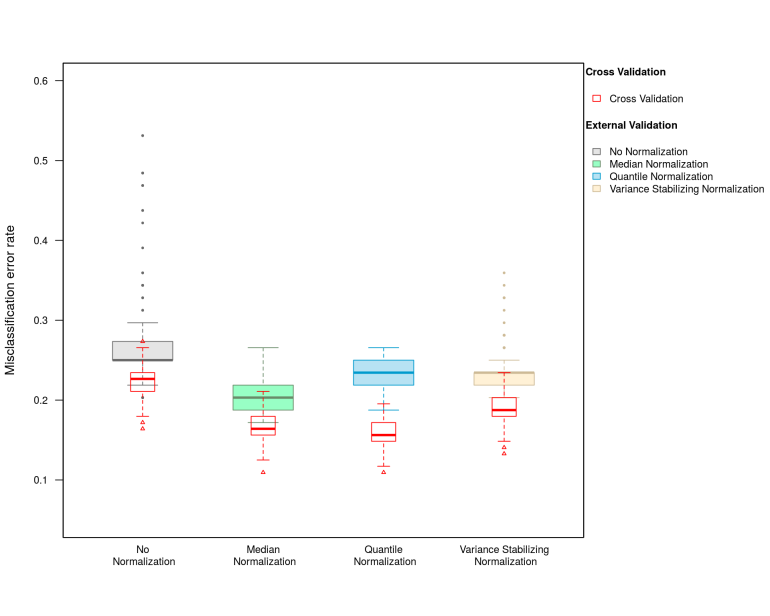
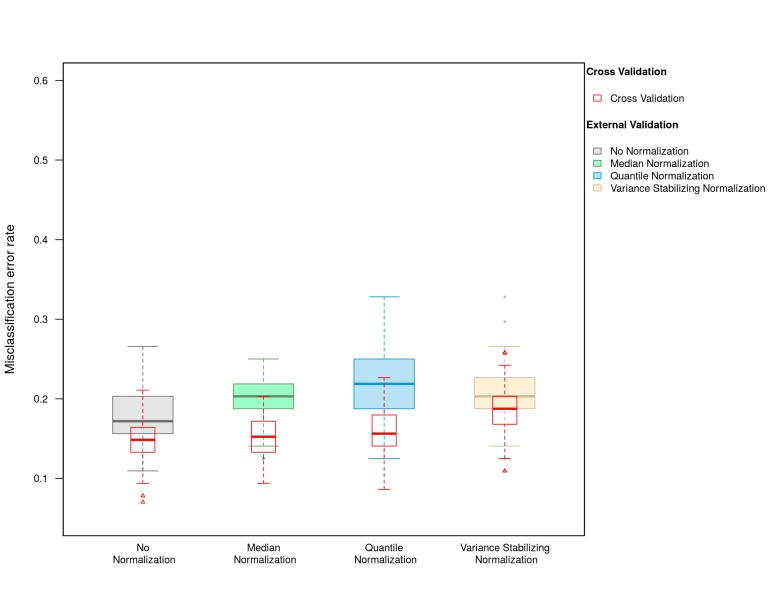
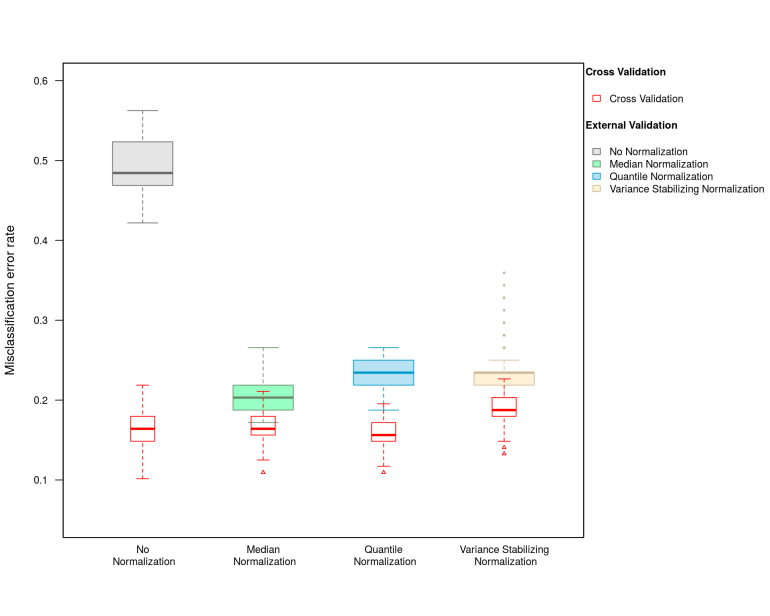
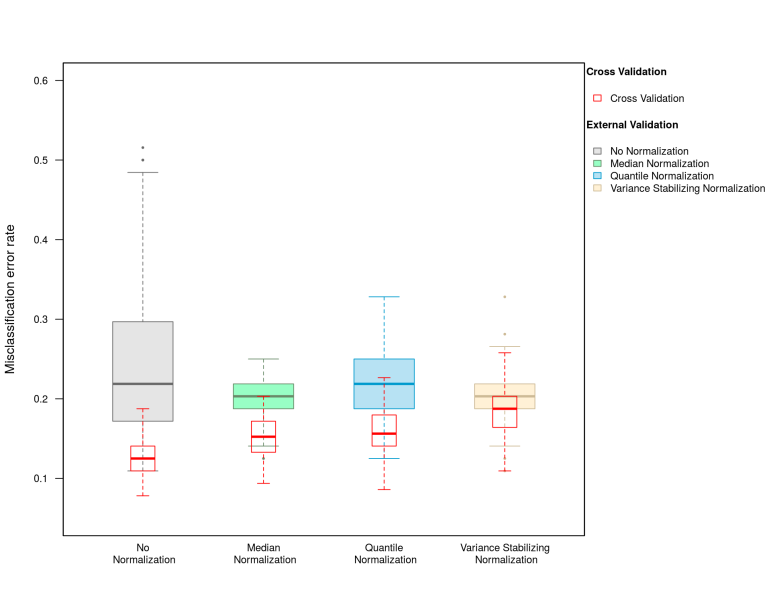
**Supplementary Figure 4. Boxplot of the misclassification error rate based on cross-validation in comparison with that based on external validation when using the PAM method (left column) or the LASSO method (right column) for building a classifier. The simulated training data possess confounding handling effects. The test data were frozen normalized to the training data using the matched normalization method.**

X-axis indicates the normalization method for the training data; y-axis indicates the misclassification error rate as a percentage. The three panels display the misclassification error when handling effects in the simulated training data were not amplified (A), amplified by location shift (B), and amplified by scale change (C).

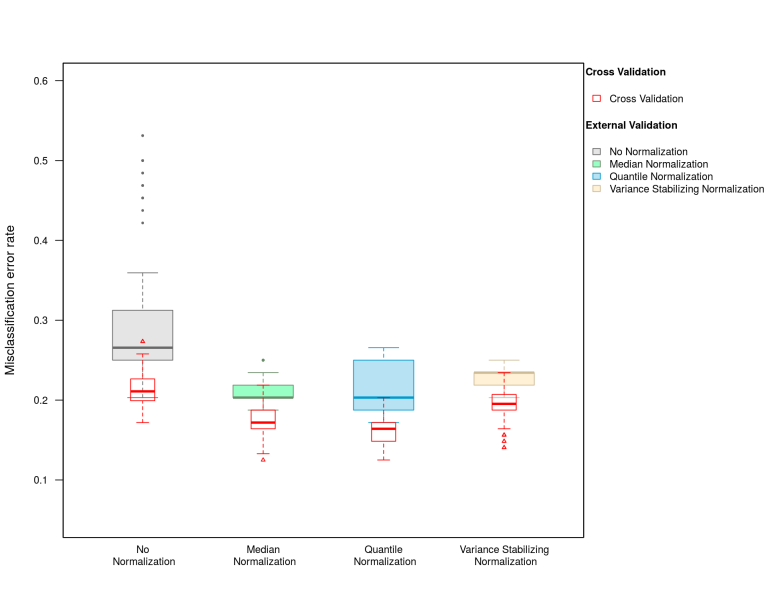
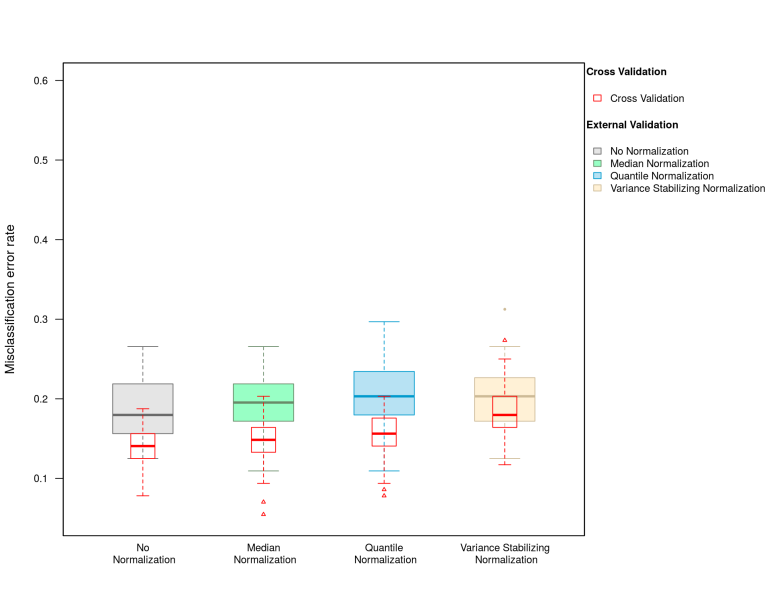
**A.**

** **

**B.**

**C.**

** **