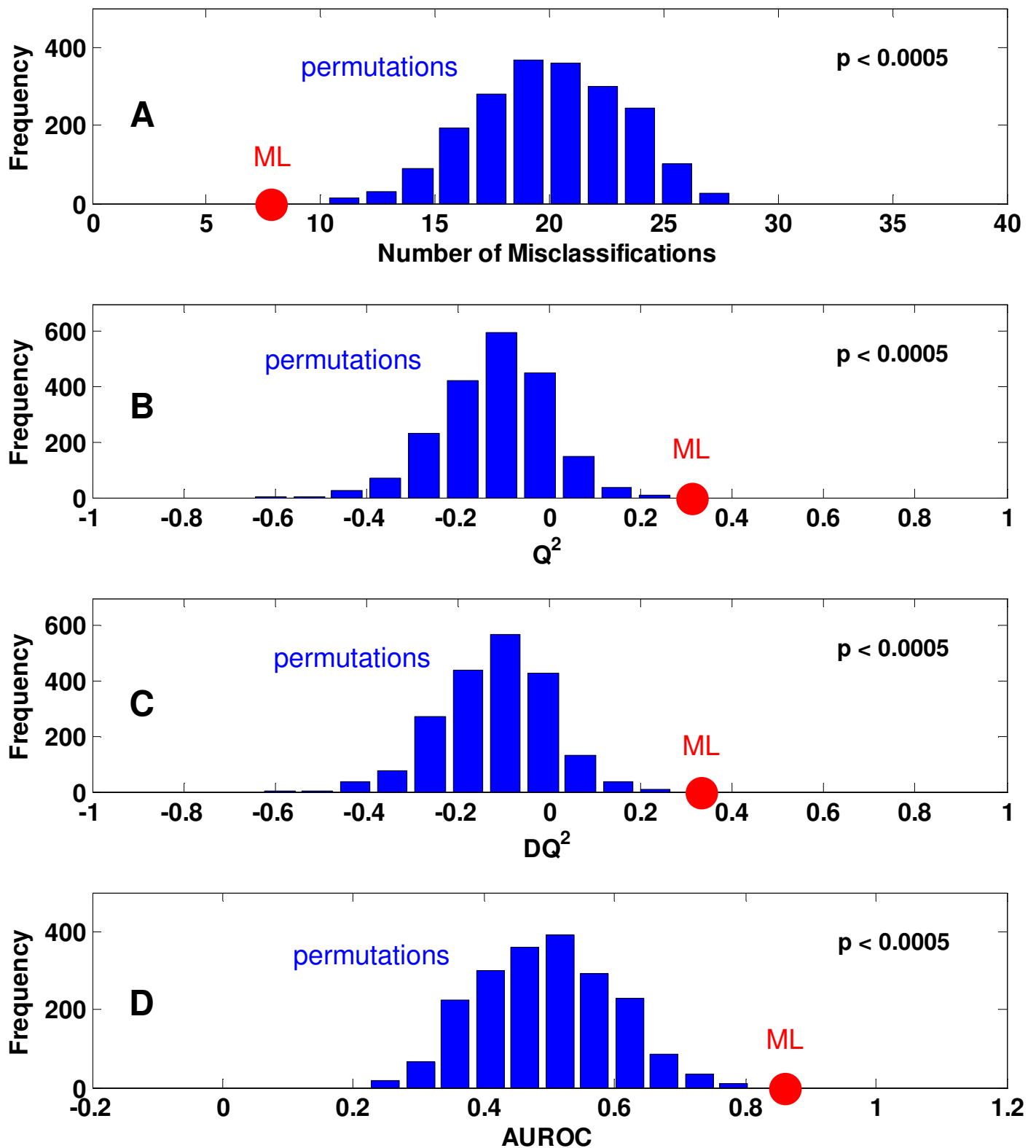




**Figure 1:** Prediction errors of the multilevel PLS-DA model (ML, **red**) and 2000 permutations (**blue**) after Cross-Model Validation (CMV). The prediction errors are expressed in terms of (A) Number of Misclassifications (NMC), (B)  $Q^2$ , (C)  $DQ^2$  and (D) Area under the ROC curve (AUROC). All prediction errors indicates that the multilevel PLS-DA model can be considered statistically significant ( $p < 0.0005$ ).