Supplementary Table 1. Summary statistics (median and inter-quartile range) of the misclassification error rate based on cross-validation in comparison with external validation when using either the PAM method (top) or the LASSO method (bottom) for building a classifier.

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| --- |
| PAM |
| No Normalization | **Median** **Normalization** | **Quantile** **Normalization** | **Variance Stabilizing Normalization** |
|  *External validation*  |  *Cross-validation*  | *External validation*  |  *Cross-validation*  |  *External validation*  |  *Cross-validation*  |  *External validation*  |  *Cross-validation*  |
| 25.0% | **22.7%** | **20.3%** | **16.4%** | **23.4%** | **15.6%** | **23.4%** | **18.8%** |
| 25.0%–27.0% | 21.1%–23.4% | 18.8%–21.9% | 15.6%–18.0% | 21.9%–25.0% | 14.8%–17.2% | 21.9%–23.4% | 18.0%–20.3% |

|  |
| --- |
| LASSO |
| No Normalization | **Median** **Normalization** | **Quantile** **Normalization** | **Variance Stabilizing Normalization** |
|  *External validation*  |  *Cross-validation*  | *External validation*  |  *Cross-validation*  |  *External validation*  |  *Cross-validation*  |  *External validation*  |  *Cross-validation*  |
| 17.2% | **14.8%** | **20.3%** | **15.2%** | **21.9%** | **15.6%** | **20.3%** | **18.8%** |
| 15.6%–20.3% | 13.3%–16.4% | 18.8%–21.9% | 13.3%–17.2% | 18.8%–25.0% | 14.1%–18.0% | 18.8%–22.3% | 17.0%–20.3% |