Supplementary material to the MLMI 2014 article titled: "Topological Descriptors of Histology Images"

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Abstract. This document contains additional results that could not be included in our main article due to space constraints. It contain additional results that use the accuracy metric and more features from persistence diagrams.

Fig. 1 and Fig. 2 reports additional AUC statistics results obtained when top 75 persistence bars are used arranged in birth order.

Fig. 3 and Fig. 4 reports results for accuracy statistics for all the experiments.



Fig. 1: AUC statistics for repeated 5-fold cross validation for Basal vs Luminal A: combining topological summaries with imaging features constructed using local patches suggests improvement in performance for certain cases.



Fig. 2: AUC statistics for repeated 5-fold cross validation for Luminal B vs HER2: combining topological summaries with imaging features constructed using local patches suggests improvement in performance for certain cases.



Fig. 3: Accuracy statistics for repeated 5-fold cross validation for Basal vs Luminal A: combining topological summaries with imaging features constructed using local patches suggests improvement in performance for certain cases.



Fig. 4: Accuracy statistics for repeated 5-fold cross validation for Luminal B vs HER2: combining topological summaries with imaging features constructed using local patches suggests improvement in performance for certain cases.