# FeCO3, constructing the network biomarkers using the inter-feature correlation coefficients

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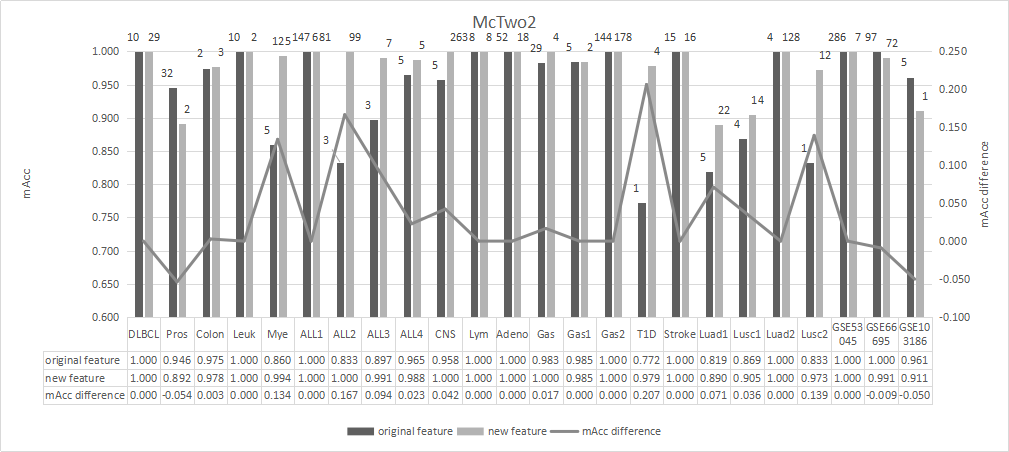
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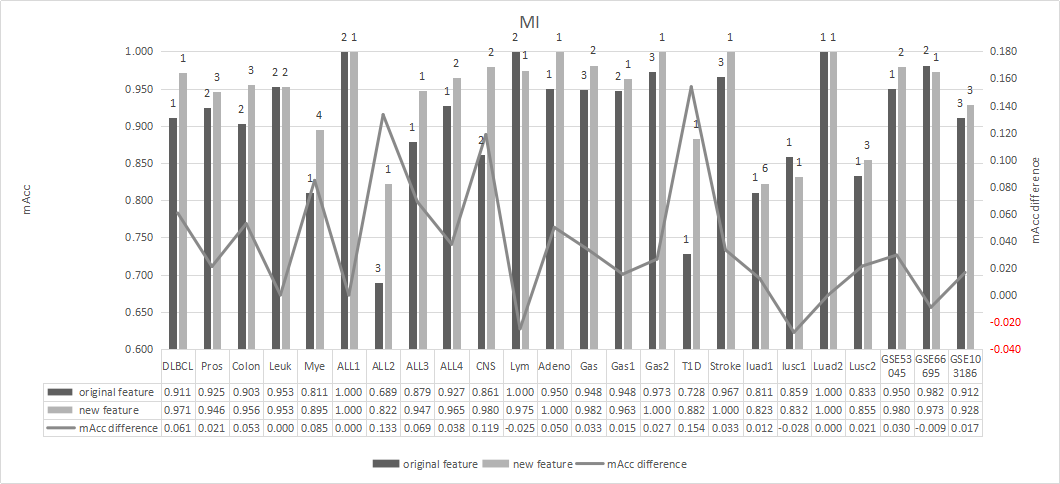
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# Supplementary Figure S1

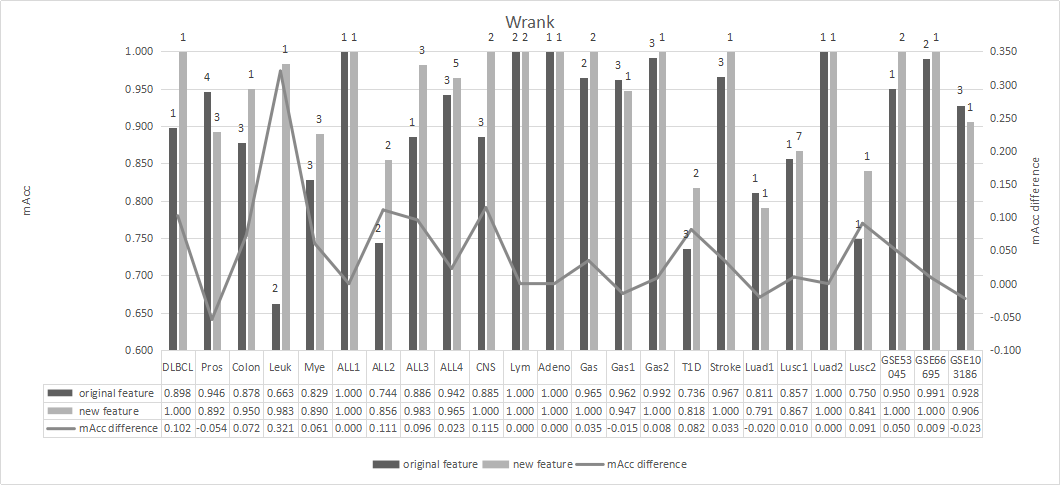
**Comparison of the classification metric mAcc and the number of features between the original features and the FeCO3 features using the feature selection algorithm McTwo2.** The series “original” gives the data of the original features, and the series “FeCO3” illustrates the status of the FeCO3 features. The series “Improvement” is the mAcc value of the FeCO3 features minus the mAcc value of the original features. The classification accuracy is calculated using the 5-fold cross validation strategy. The data was calculated using the feature selection algorithms



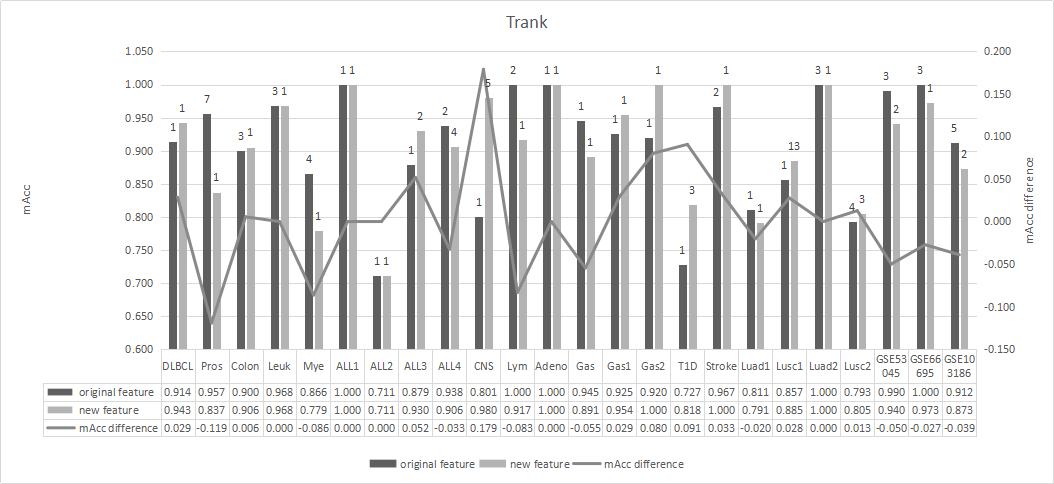
**Comparison of the classification metric mAcc and the number of features between the original features and the FeCO3 features using the feature selection algorithm MI.** The series “original” gives the data of the original features, and the series “FeCO3” illustrates the status of the FeCO3 features. The series “Improvement” is the mAcc value of the FeCO3 features minus the mAcc value of the original features. The classification accuracy is calculated using the 5-fold cross validation strategy. The data was calculated using the feature selection algorithms



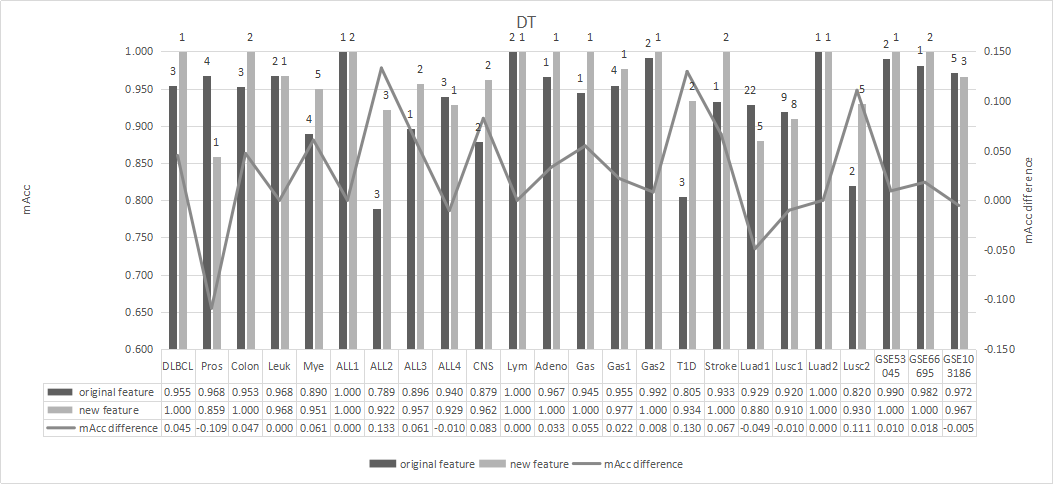
**Comparison of the classification metric mAcc and the number of features between the original features and the FeCO3 features using the feature selection algorithm Wrank.** The series “original” gives the data of the original features, and the series “FeCO3” illustrates the status of the FeCO3 features. The series “Improvement” is the mAcc value of the FeCO3 features minus the mAcc value of the original features. The classification accuracy is calculated using the 5-fold cross validation strategy. The data was calculated using the feature selection algorithms



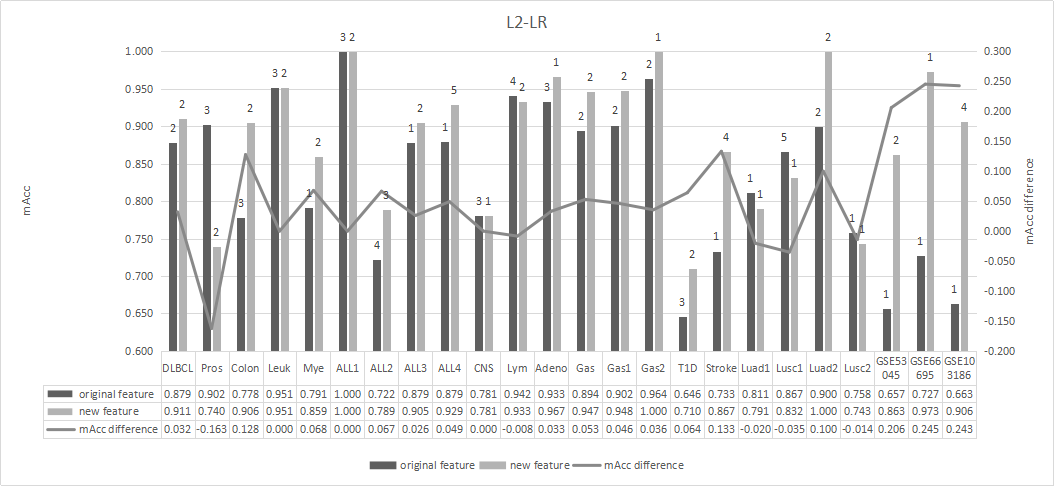
**Comparison of the classification metric mAcc and the number of features between the original features and the FeCO3 features using the feature selection algorithm Trank.** The series “original” gives the data of the original features, and the series “FeCO3” illustrates the status of the FeCO3 features. The series “Improvement” is the mAcc value of the FeCO3 features minus the mAcc value of the original features. The classification accuracy is calculated using the 5-fold cross validation strategy. The data was calculated using the feature selection algorithms



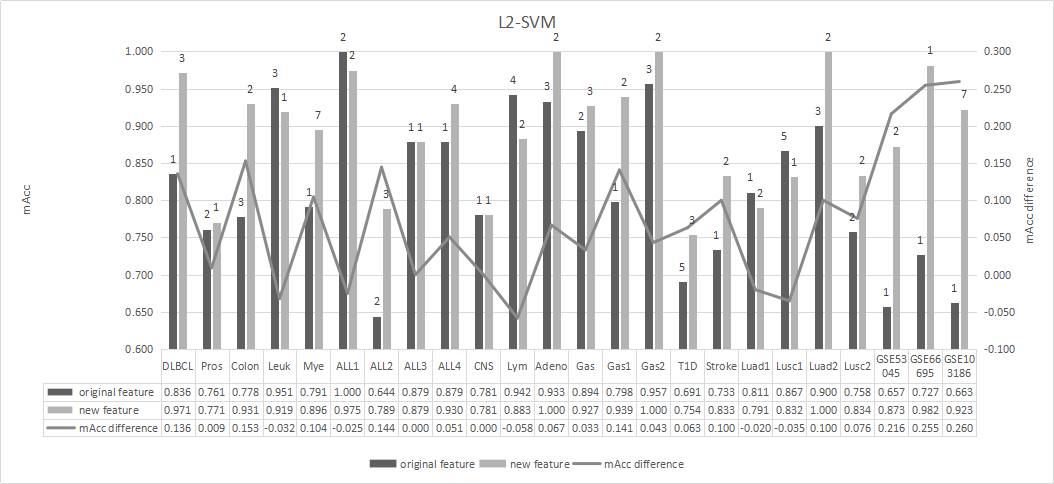
**Comparison of the classification metric mAcc and the number of features between the original features and the FeCO3 features using the feature selection algorithm DT.** The series “original” gives the data of the original features, and the series “FeCO3” illustrates the status of the FeCO3 features. The series “Improvement” is the mAcc value of the FeCO3 features minus the mAcc value of the original features. The classification accuracy is calculated using the 5-fold cross validation strategy. The data was calculated using the feature selection algorithms



**Comparison of the classification metric mAcc and the number of features between the original features and the FeCO3 features using the feature selection algorithm L2-LR.** The series “original” gives the data of the original features, and the series “FeCO3” illustrates the status of the FeCO3 features. The series “Improvement” is the mAcc value of the FeCO3 features minus the mAcc value of the original features. The classification accuracy is calculated using the 5-fold cross validation strategy. The data was calculated using the feature selection algorithms



**Comparison of the classification metric mAcc and the number of features between the original features and the FeCO3 features using the feature selection algorithm L2-SVM.** The series “original” gives the data of the original features, and the series “FeCO3” illustrates the status of the FeCO3 features. The series “Improvement” is the mAcc value of the FeCO3 features minus the mAcc value of the original features. The classification accuracy is calculated using the 5-fold cross validation strategy. The data was calculated using the feature selection algorithms



**Comparison of the classification metric mAcc and the number of features between the original features and the FeCO3 features using the feature selection algorithm XGB.** The series “original” gives the data of the original features, and the series “FeCO3” illustrates the status of the FeCO3 features. The series “Improvement” is the mAcc value of the FeCO3 features minus the mAcc value of the original features. The classification accuracy is calculated using the 5-fold cross validation strategy. The data was calculated using the feature selection algorithms

