



**Figure S14** Comparison of predicted genomic values of maize lines for trait dry matter yield (DMY) obtained from the three models. Colors indicate different families (families are specified by their specific parental line). Overall correlations of predicted values as well as correlations within each family are given. A) Comparison of across group GBLUP (A-GBLUP) and within group GBLUP (W-GBLUP); B) Comparison of A-GBLUP and multi group GBLUP (MG-GBLUP); C) Comparison of W-GBLUP and MG-GBLUP.