











Supplementary Figure 2: Kaplan-Meier survival analysis plots of multigene cancer biomarkers involved in edgetic perturbations. The x axes indicate the number of days until patient death whereas the y axes indicate the probability of patient survival. In all the Figures, the green lines

indicate better survival (longer life-span) after cancer diagnosis while the red lines indicate poor survival (shorter life-span) after cancer diagnosis as a result of the proteins involved in edgetic gains or losses. In all the cases, the proteins involved in edgetic perturbations predicted poor survival of the patients (Logrank test p-value < 0.05), indicating their importance in cancer monitoring and prognosis. (a) Overall survival predicted from gene signatures involved in edgetic gains across most patients of a cancer type, (b) Overall survival predicted from gene signatures involved in edgetic losses across most patients of a cancer type, (c) Overall survival predicted from gene signatures involved in edgetic gains across patients showing cancer-specific perturbations, (d) Overall survival predicted from gene signatures involved in edgetic losses across patients showing cancer-specific perturbations. The names of the multigene signatures responsible for the above observations can be found in Supplementary File 7.xls (Tables 7a and 7b).