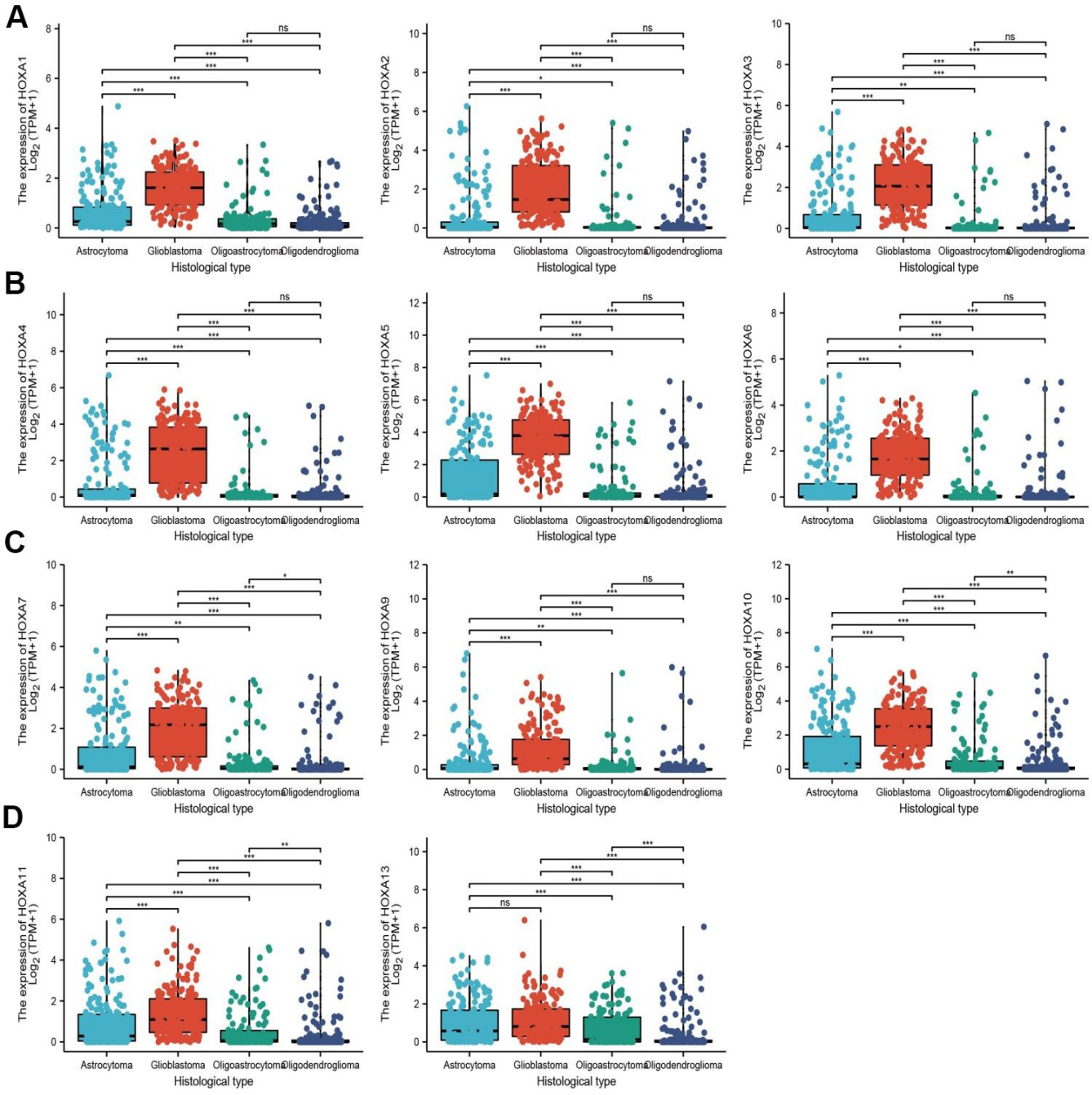
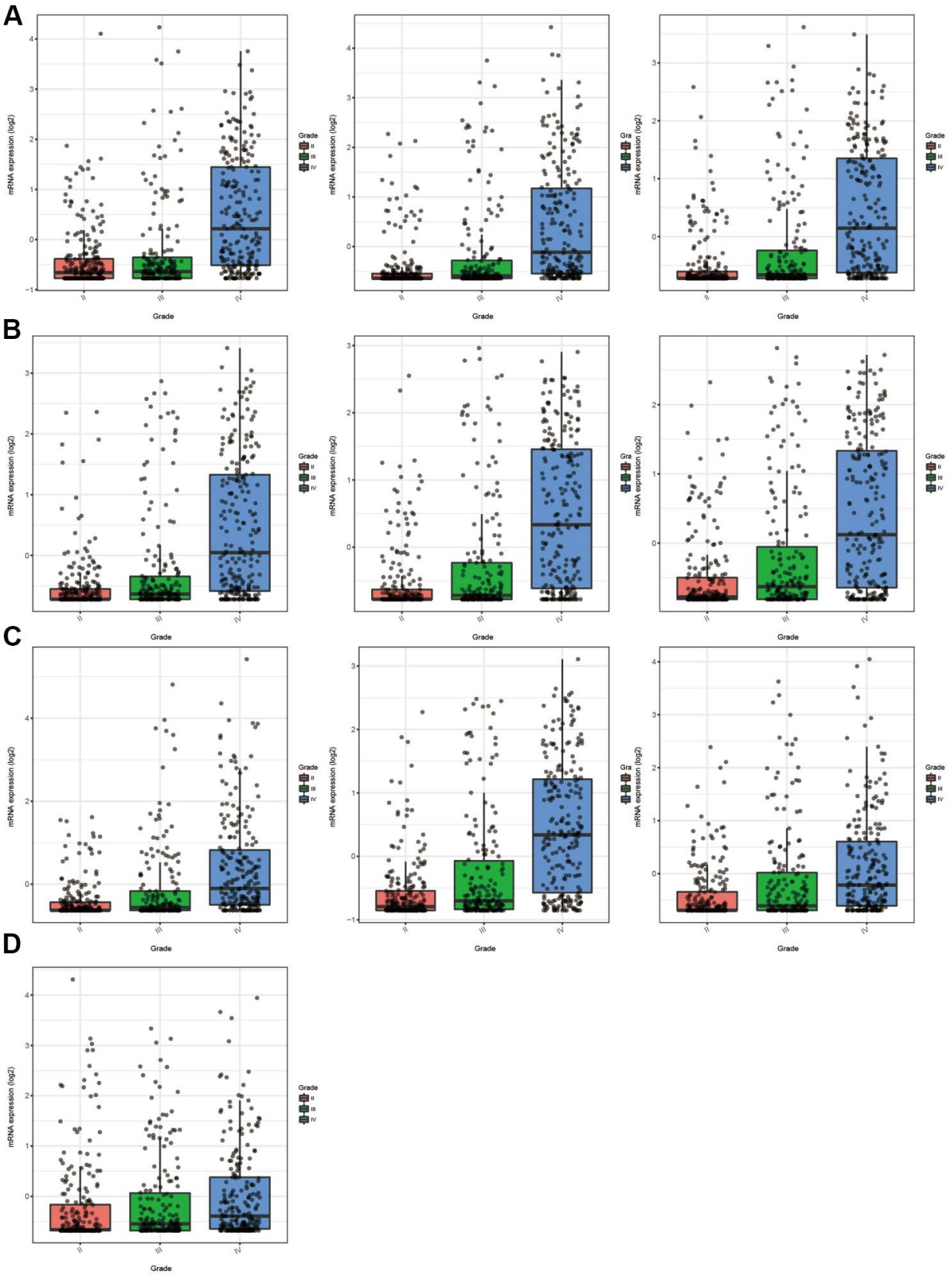
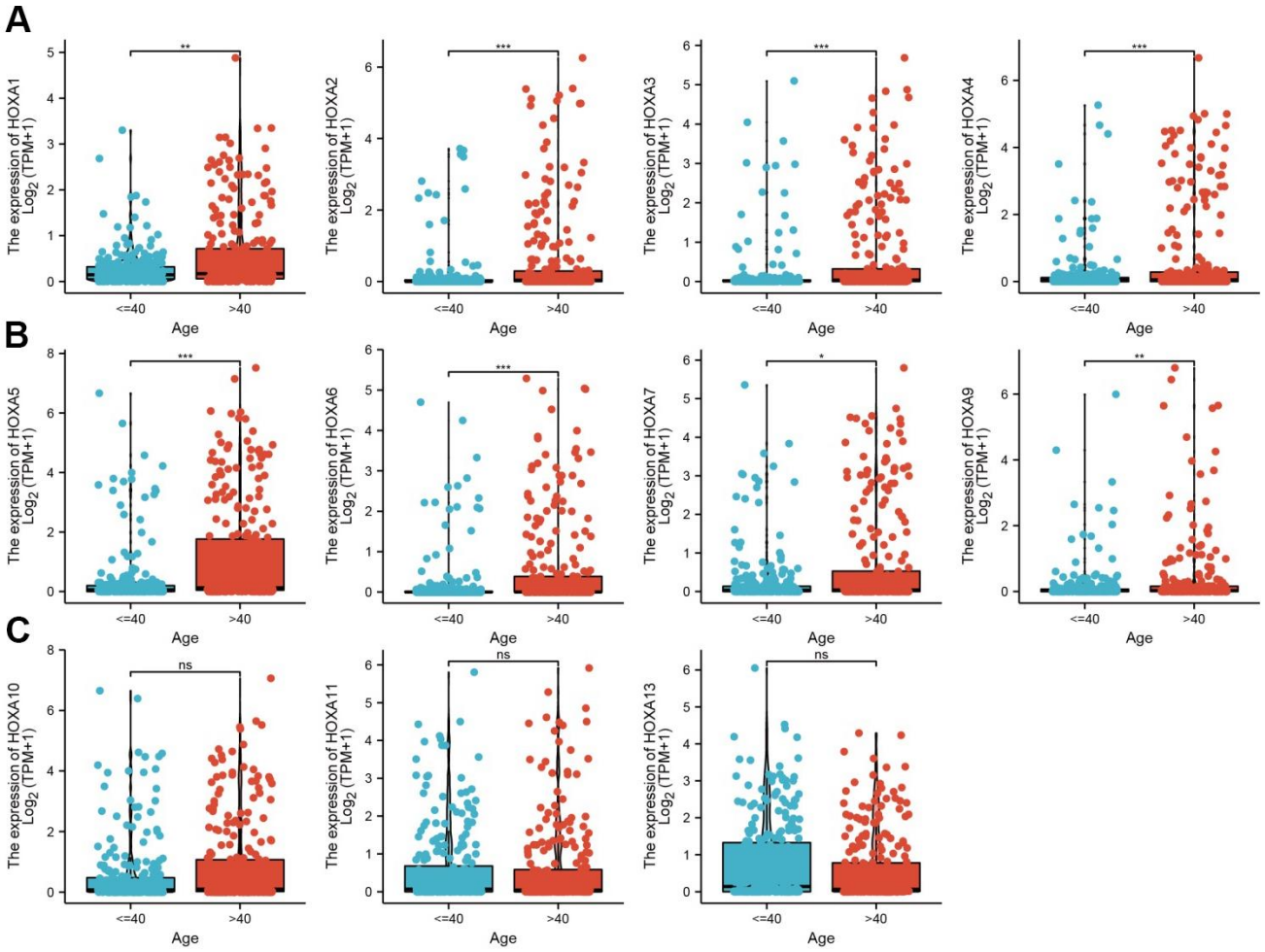
SUPPLEMENTARY FIGURES



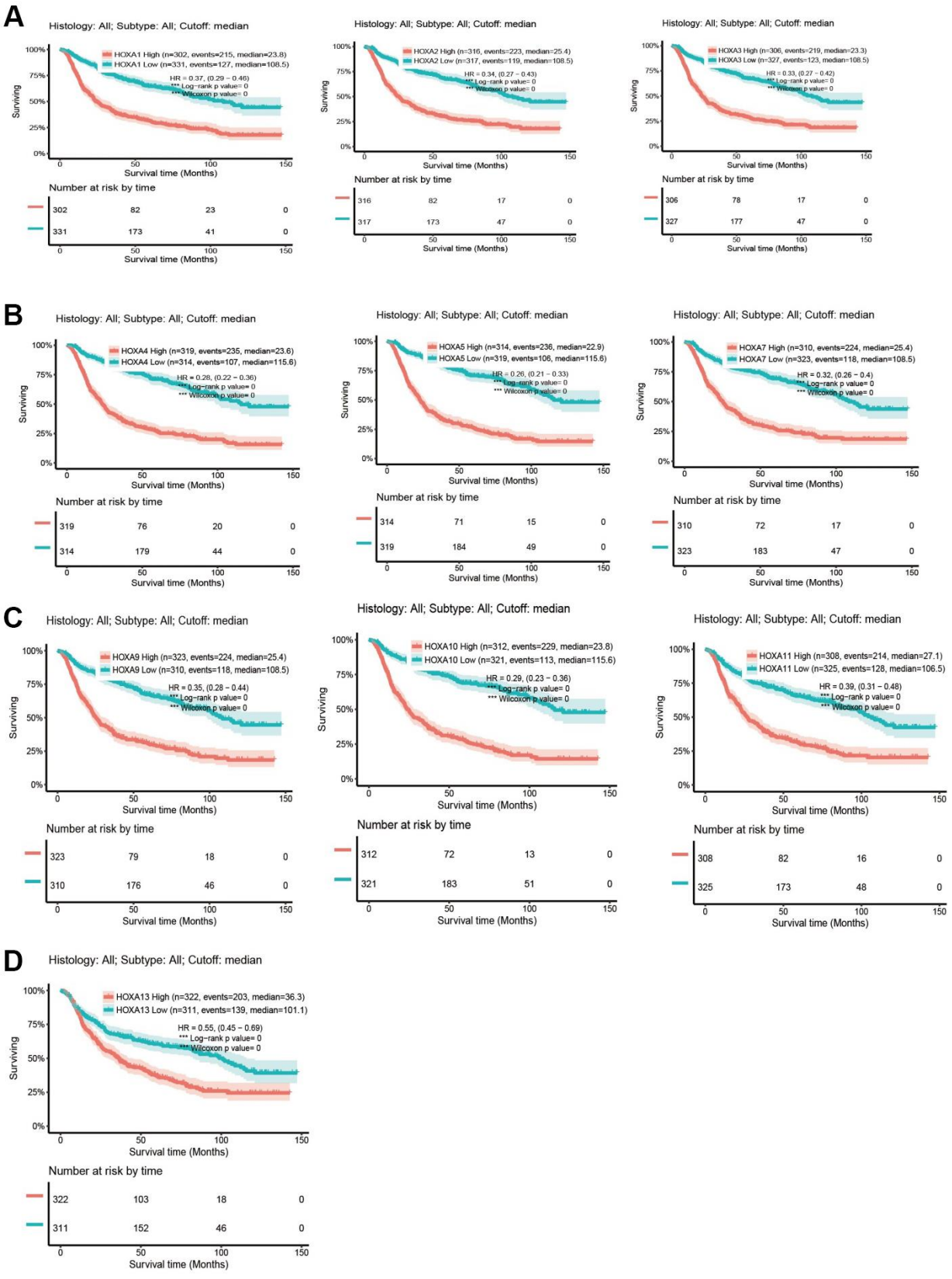
Supplementary Figure 1. The correlation between HOXAs and histological type in LGG. (**A**–**D**) Analysis correlation between HOXAs and histological type in LGG examine by TCGA database.



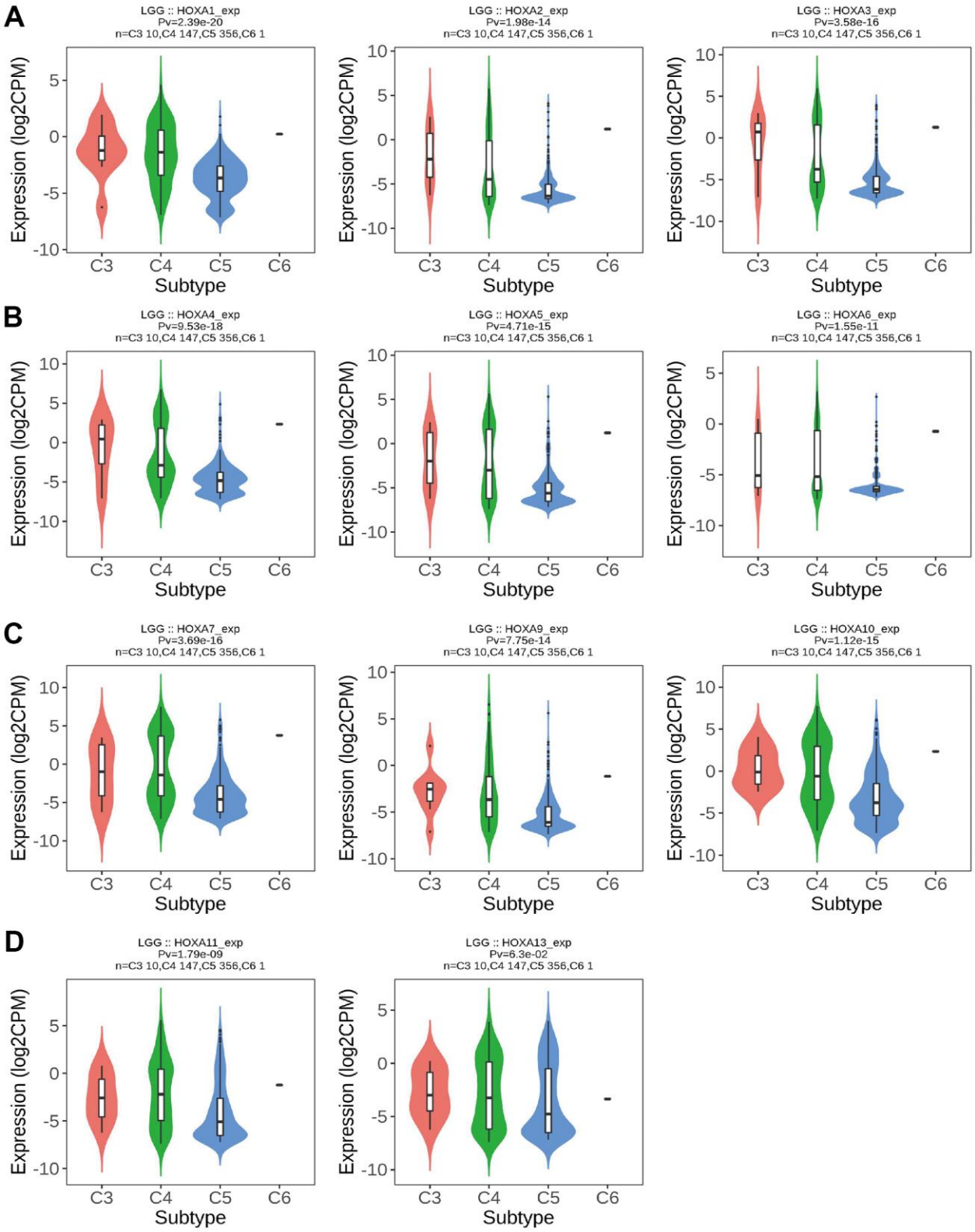
Supplementary Figure 2. The correlation between HOXAs and tumor grade in LGG. (**A**–**D**) The correlation between HOXAs and tumor grade in LGG by CGGA database.



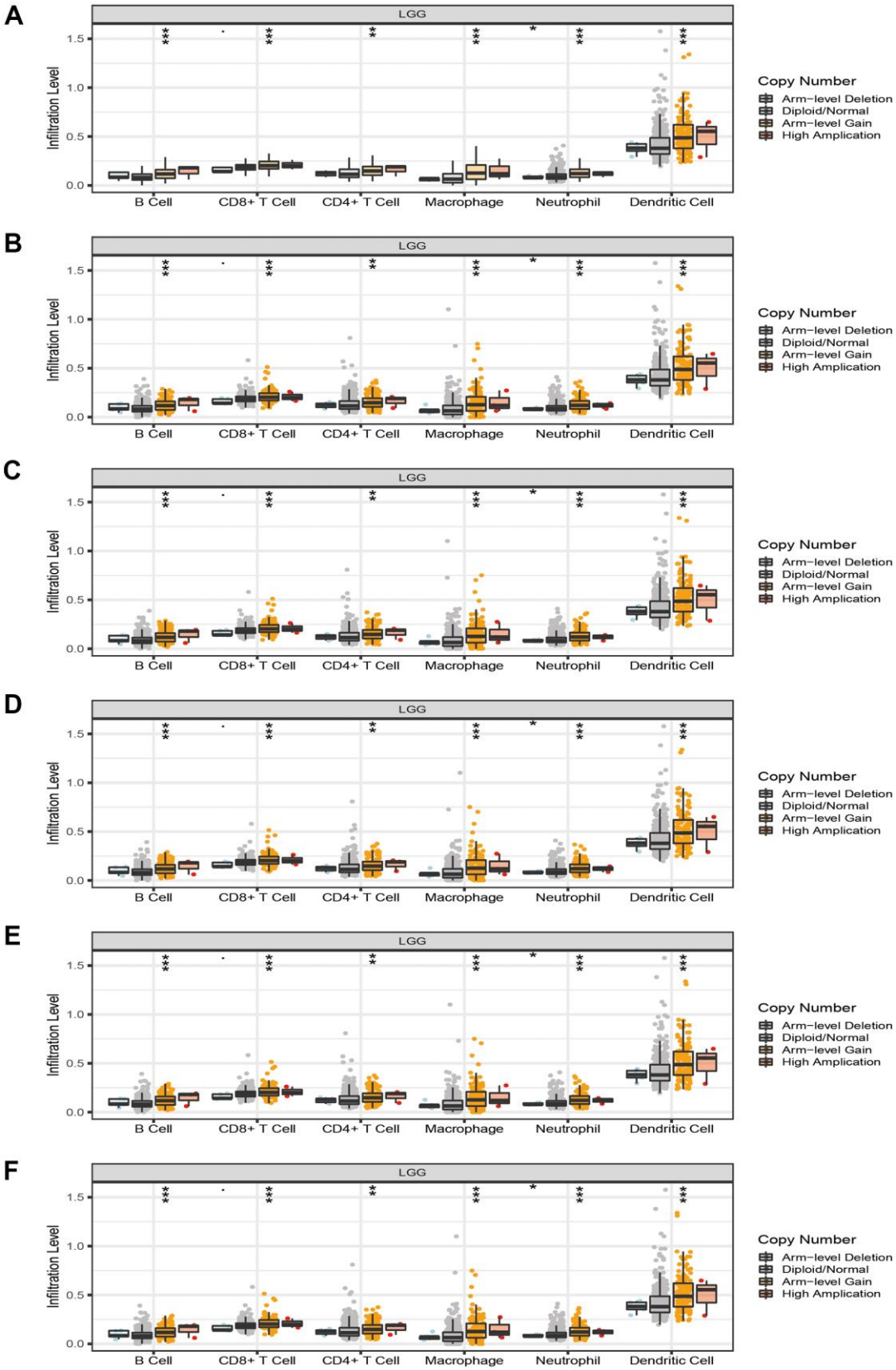
Supplementary Figure 3. The correlation between HOXAs and age in LGG. (**A**–**C**) The correlation between HOXAs and age in LGG by CGGA database.



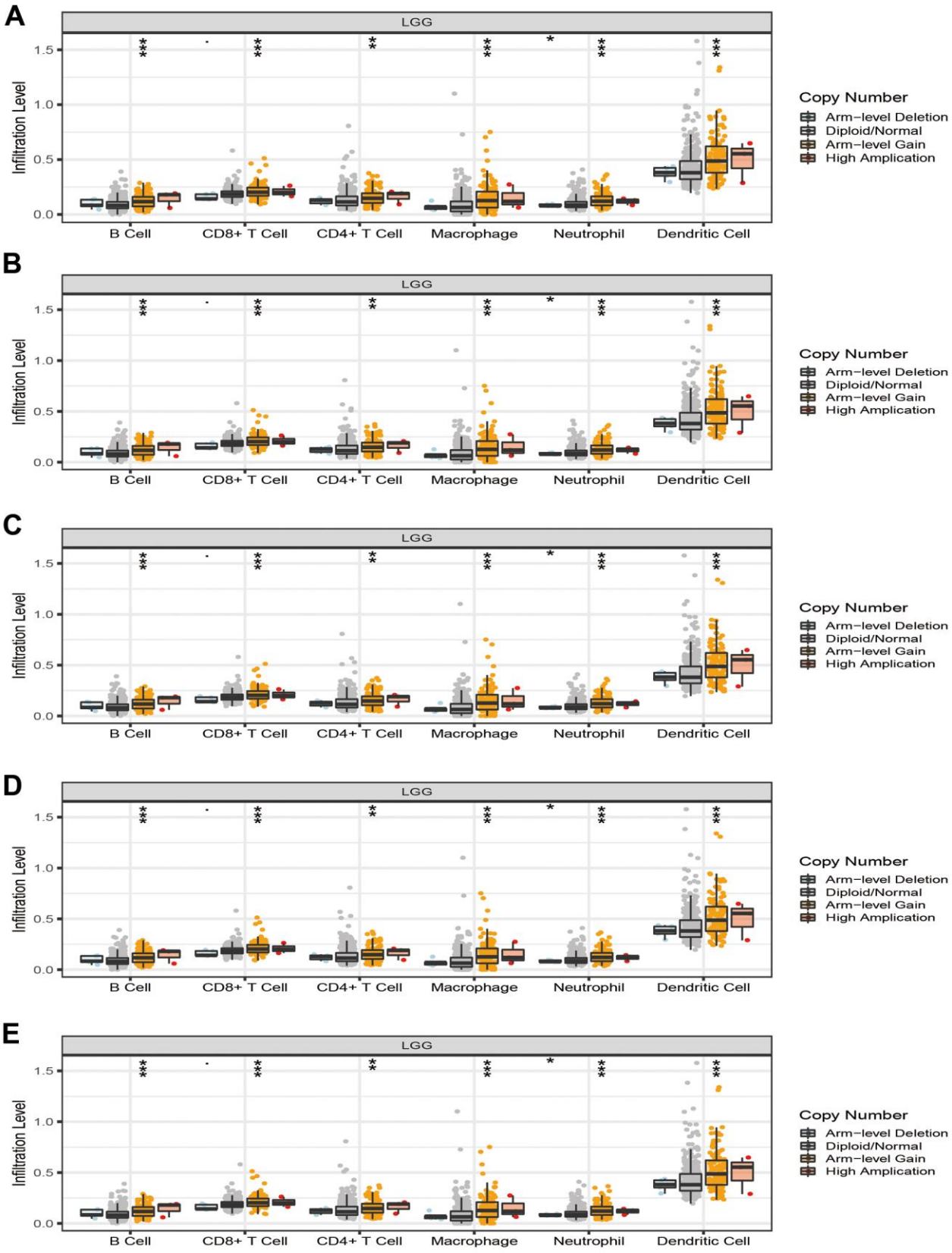
Supplementary Figure 4. Analysis the prognosis of HOXAs in LGG examine by CGGA database. (**A**–**D**) Analysis the prognosis of HOXAs in LGG examine by CGGA database.



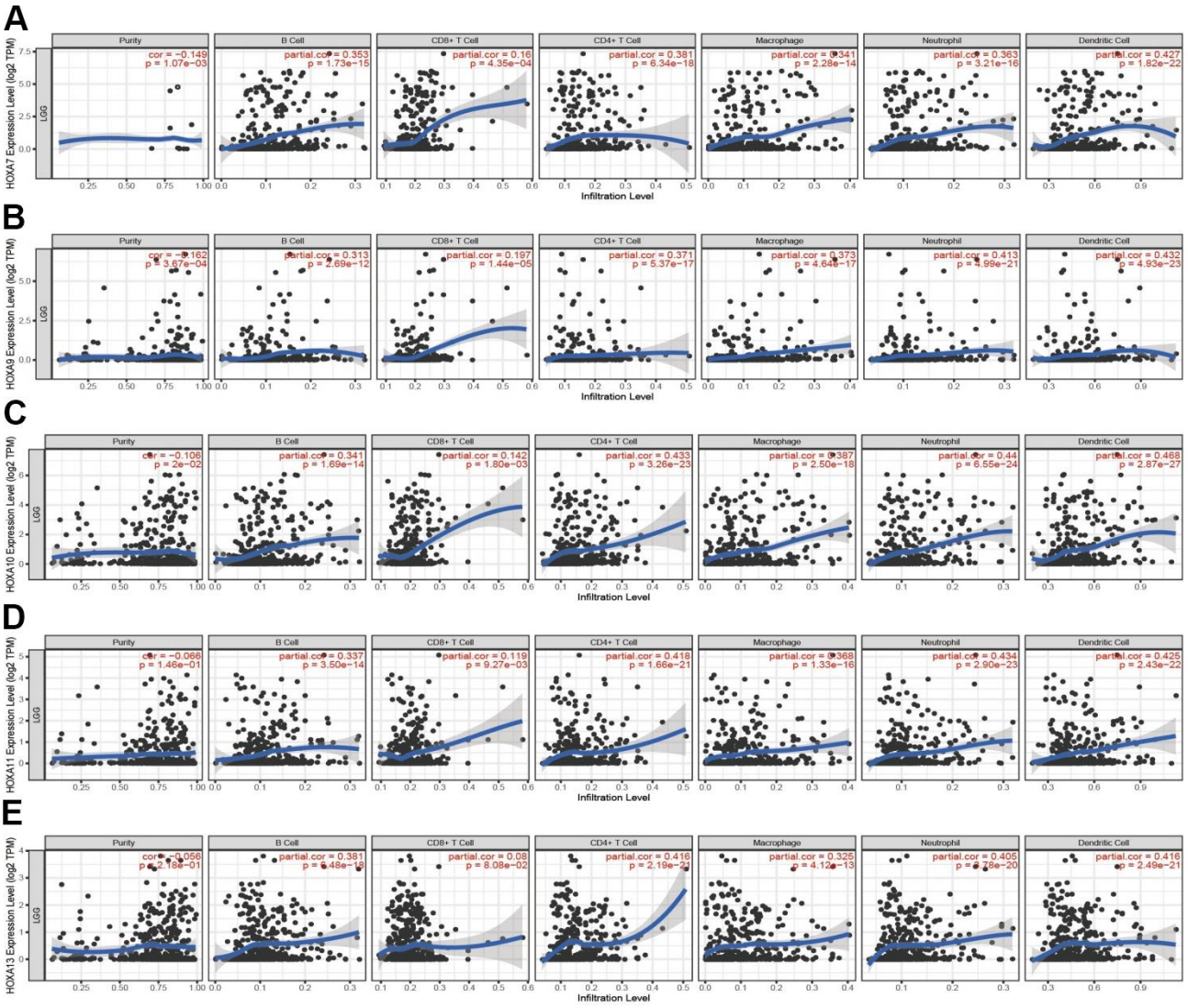
Supplementary Figure 5. The expression of HOXAs in immune subtype of LGG examine by TISIDB database. (**A**–**D**) The expression of HOXAs in immune subtype of LGG examine by TISIDB database.



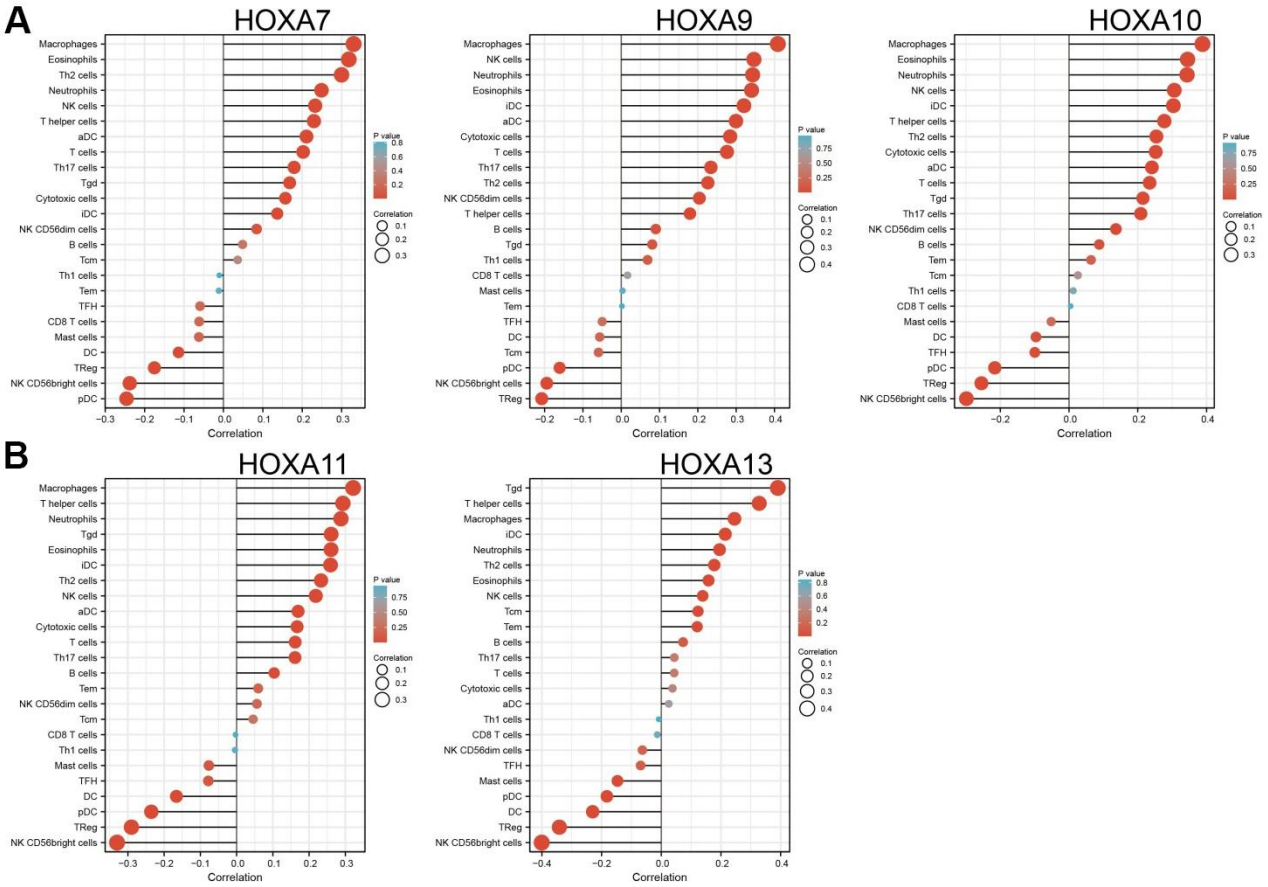
Supplementary Figure 6. Analysis the correlation between somatic copy number alterations of HOXAs and immune cell infiltration in LGG. (**A**–**F**) Analysis the correlation between somatic copy number alterations of HOXAs and immune cell infiltration levels in LGG based on TIMER database.



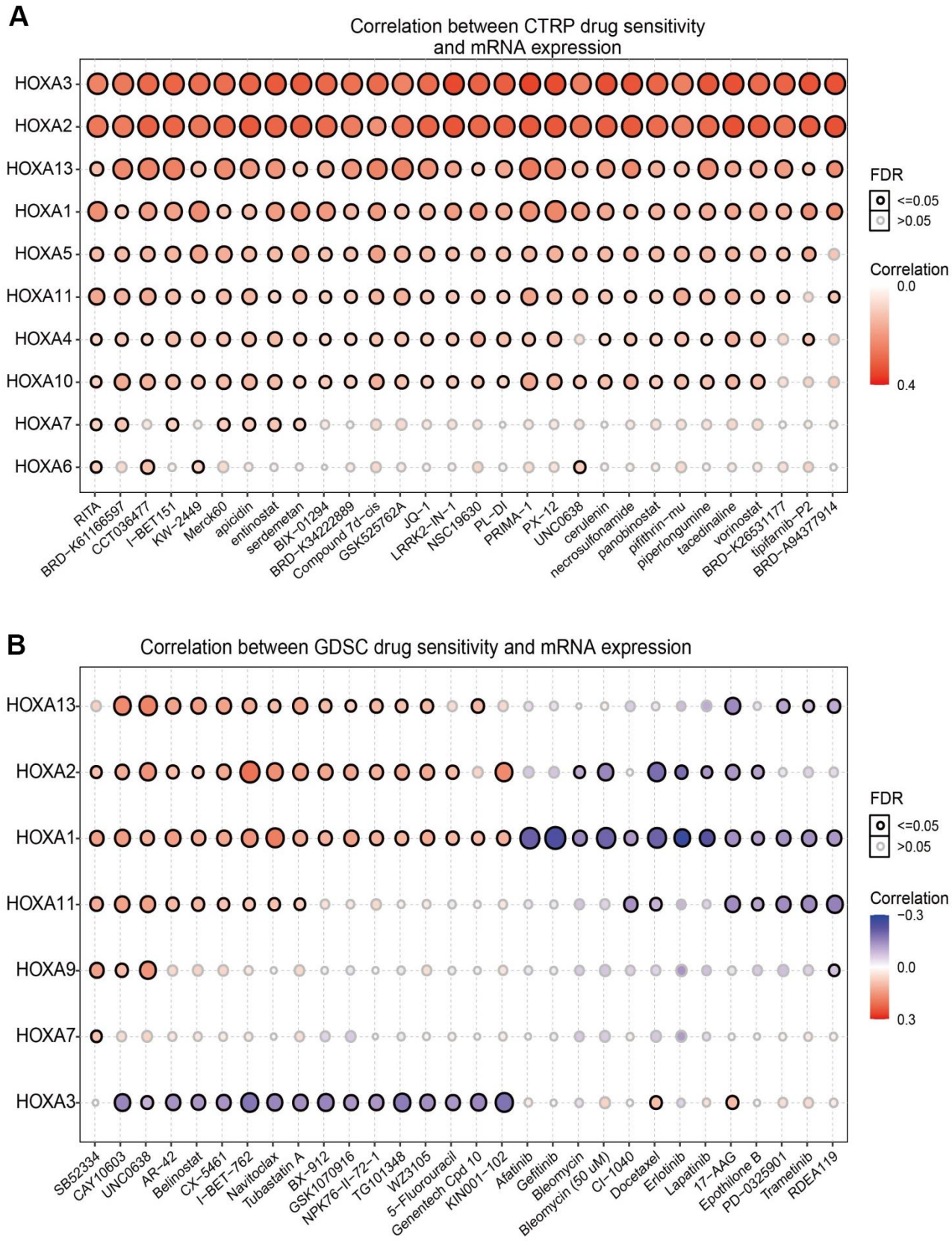
Supplementary Figure 7. Analysis the correlation between somatic copy number alterations of HOXAs and immune cell infiltration in LGG. (**A**–**E**) Analysis the correlation between somatic copy number alterations of HOXAs and immune cell infiltration levels in LGG based on TIMER database.



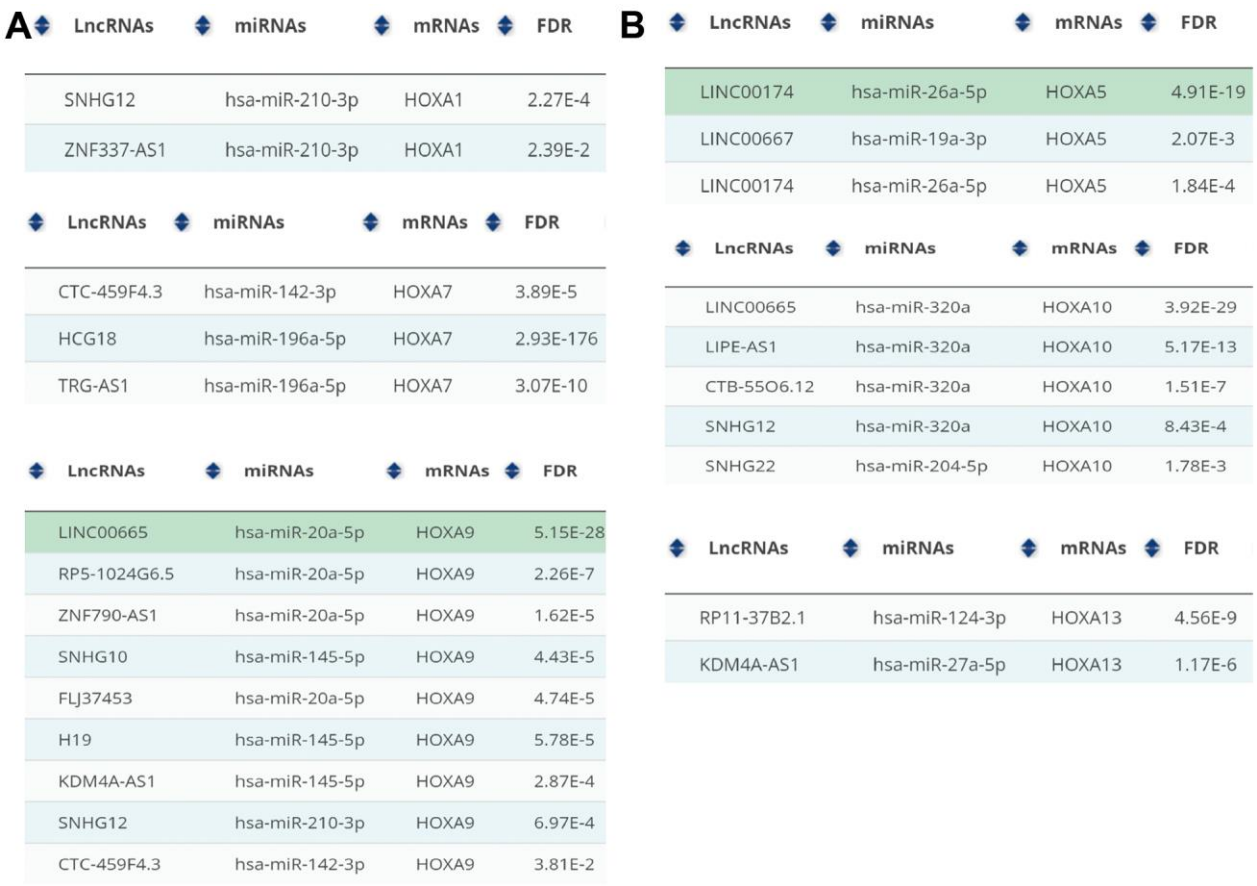
Supplementary Figure 8. Analysis the correlation between the HOXAs expression and immune cells infiltration. (**A**–**E**) The correlation between HOXAs expression and immune cells infiltration in LGG examine by the TIMER database. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.



Supplementary Figure 9. Analysis the correlation between the HOXAs expression and immune cells infiltration. (**A**, **B**) The correlation between HOXAs expression and immune cells infiltration in LGG examine by the ssGSEA database. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.



Supplementary Figure 10. The correlation between HOXAs expression and drug sensitivity. (**A**, **B**) The correlation between HOXAs expression and drug sensitivity by GDSC and CTRP database.



Supplementary Figure 11. The ceRNA networks of HOXAs in LGG. (**A**, **B**) The ceRNA networks of HOXAs in LGG constructed by LnCeVar database.