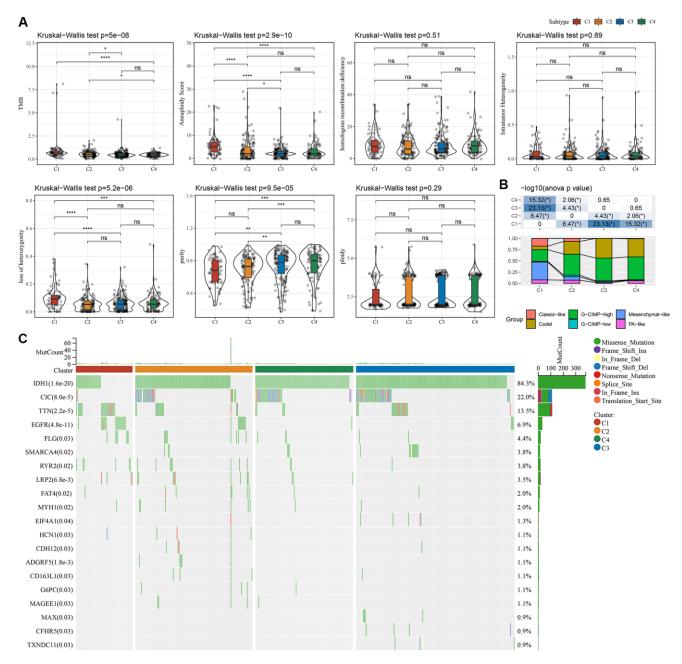
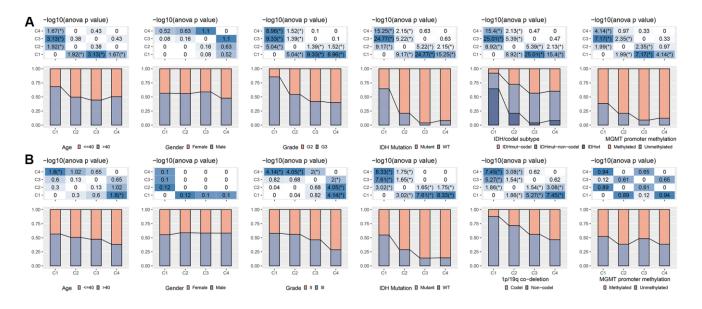
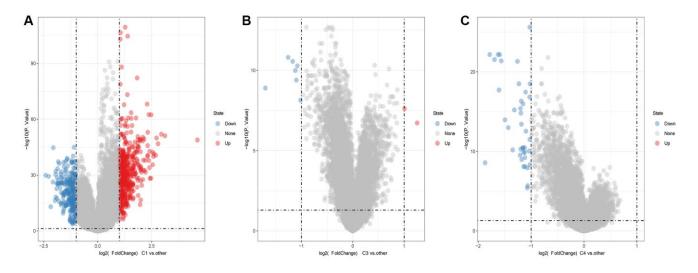
SUPPLEMENTARY FIGURES



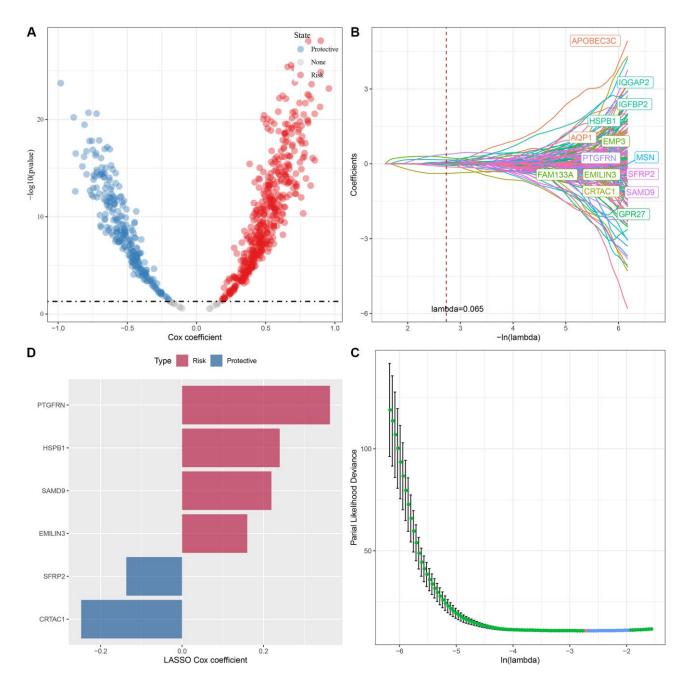
Supplementary Figure 1. Mutation burden in different molecular subtypes. (A) Comparison of TMB, aneuploidy score, homologous recombination defects, intratumor heterogeneity, LOH, purity, and ploidy among different molecular subtypes in the TCGA-LGG cohort. (B) Comparison of the four molecular subtypes with immune molecular subtypes. (C) Somatic mutations in the four molecular subtypes (chi-square test). *P < 0.05. **P < 0.01; ****P < 0.0001. Abbreviations: ns: no significance: ANOVA; analysis of variance; IDH: isocitrate dehydrogenase; WT: wild-type; Mut: mutant; MGMT: O-6-methylguanine-DNA methyltransferase; TMB: tumor mutation burden; LOH: loss of heterozygosity; TCGA: The Cancer Genome Atlas; LGG: low-grade glioma.



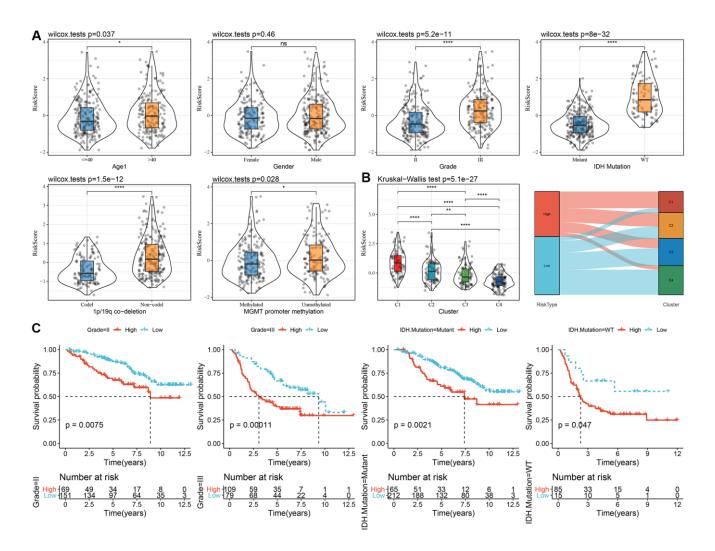
Supplementary Figure 2. Distribution patterns of various molecular subtypes in each clinical variable. (A) Clinicopathological characteristics of molecular subtypes in the TCGA-LGG cohort. (B) Clinicopathological characteristics of molecular subtypes in the CGGA cohort; the upper part is the statistical significance of the pairwise distribution difference, the lower part is the proportion. Abbreviations: TMB: tumor mutation burden; ANOVA: analysis of variance; TCGA: The Cancer Genome Atlas; LGG: low-grade glioma; CGGA: Chinese Glioma Genome Atlas.



Supplementary Figure 3. Identification of DEGs among different clusters. (A) C1 vs. other. (B) C3 vs. other. (C) C4 vs. other. Abbreviation: DEGs: Differentially expressed genes.



Supplementary Figure 4. Construction of a prognostic model with key genes screened by LASSO algorithm. (A) A total of 719 promising candidates were filtered from all the DEGs. (B) Changed trajectory of each independent variable with lambda. (C) Confidence interval under lambda. (D) Distribution of LASSO-Cox coefficients of the NK cell-associated prognostic gene signature. Abbreviations: LASSO: least absolute shrinkage and selection operator; DEGs: differentially expressed genes; NK: natural killer.



Supplementary Figure 5. Association of RiskScore with clinical information in CGGA dataset. (A) Differences in RiskScore among different clinicopathological groups in the CGGA-LGG cohort. (B) Differences in RiskScore among different molecular subtypes in the CGGA-LGG cohort. (C) KM curves between high and low RiskScore groups in different clinical subgroup. Abbreviations: CGGA: Chinese Glioma Genome Atlas; LGG: low-grade glioma; K-M: Kaplan-Meier.