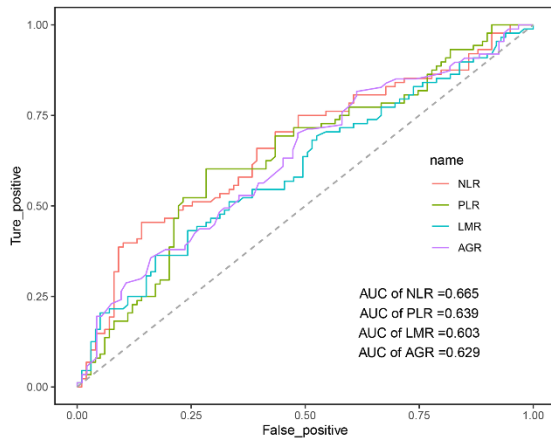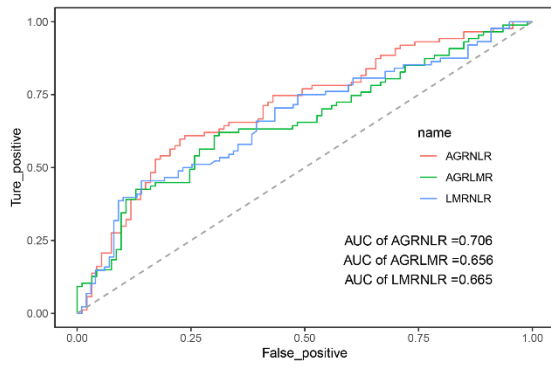**Supplemental Figure S1.** ROC and AUC value of peripheral inflammatory markers of NLR, PLR, LMR, AGR and score system of AGR-NLR, AGR-LMR, LMR-NLR and LMR-NLR-AGR.
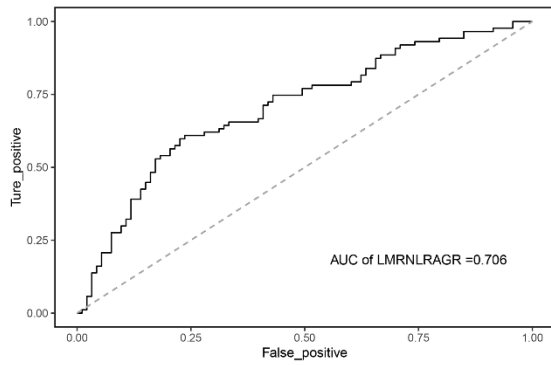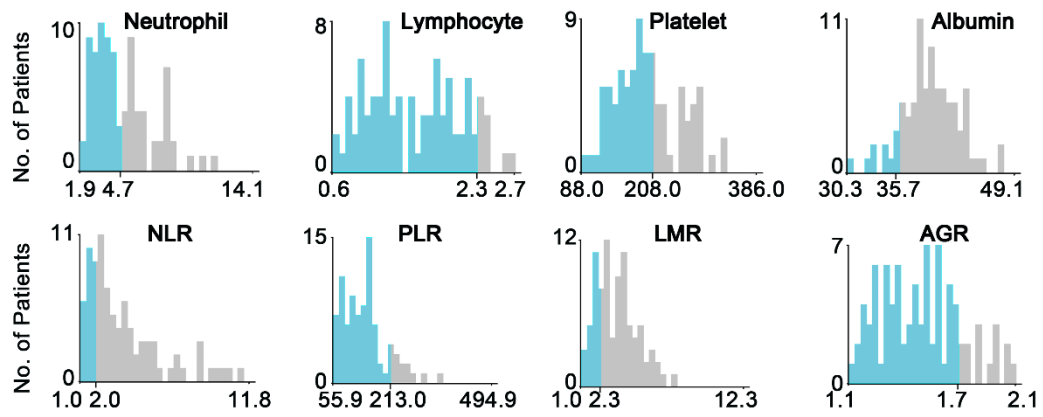
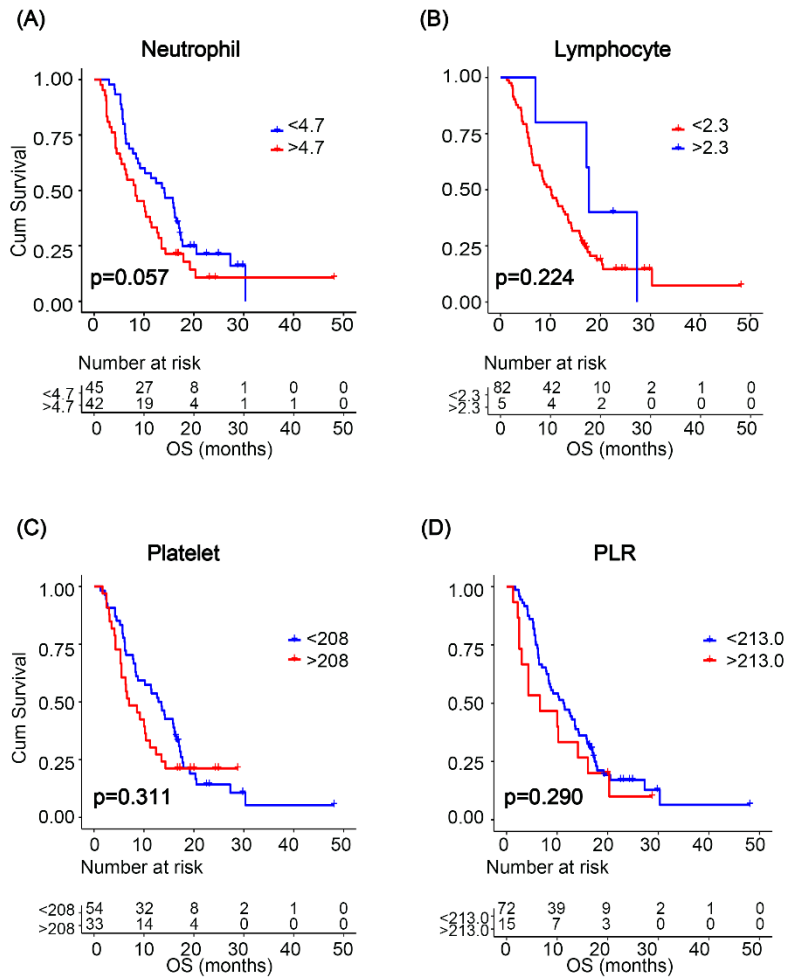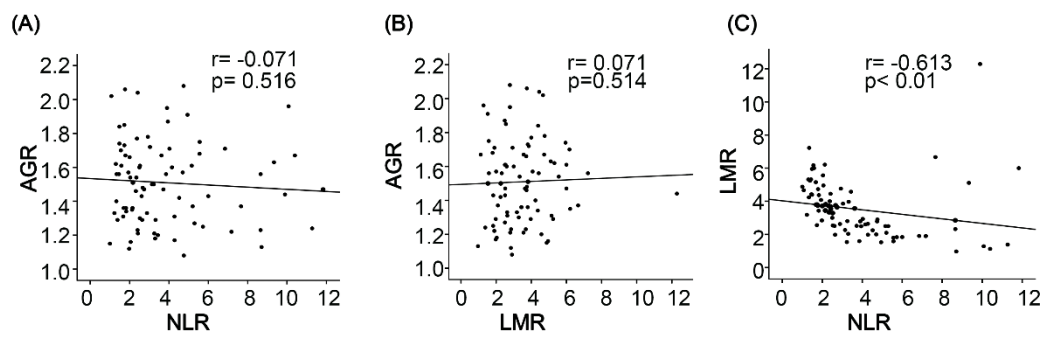**Supplemental Figure S2.** Cutoff values of peripheral markers in GBM patients. Neutrophil, lymphocyte, platelet: 109 cells/L; albumin: g/L.
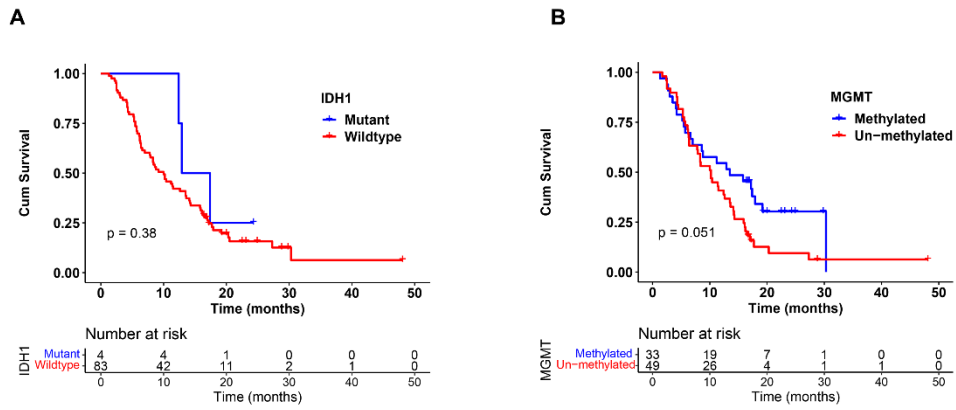
Supplemental Figure S3. Kaplan-Meier survival curves of GBM patients based on the cutoff values of neutrophil, lymphocyte, platelet, and PLR values.

Supplemental Figure S4. Correlation analysis among NLR, LMR, and AGR.

(A)

r= -0.071
p= 0.516

AGR / NLR

(B)

r= 0.071
p=0.514

AGR / LMR

(C)

r= -0.613
p< 0.01

LMR / NLR

Supplemental Figure S5. Kaplan-Meier survival curves of GBM patients based on the IDH 1 and MGMT status.

Supplemental Figure S6. Time-dependent ROC curve analysis of three prognostic scoring models for predicting OS in GBM patients.