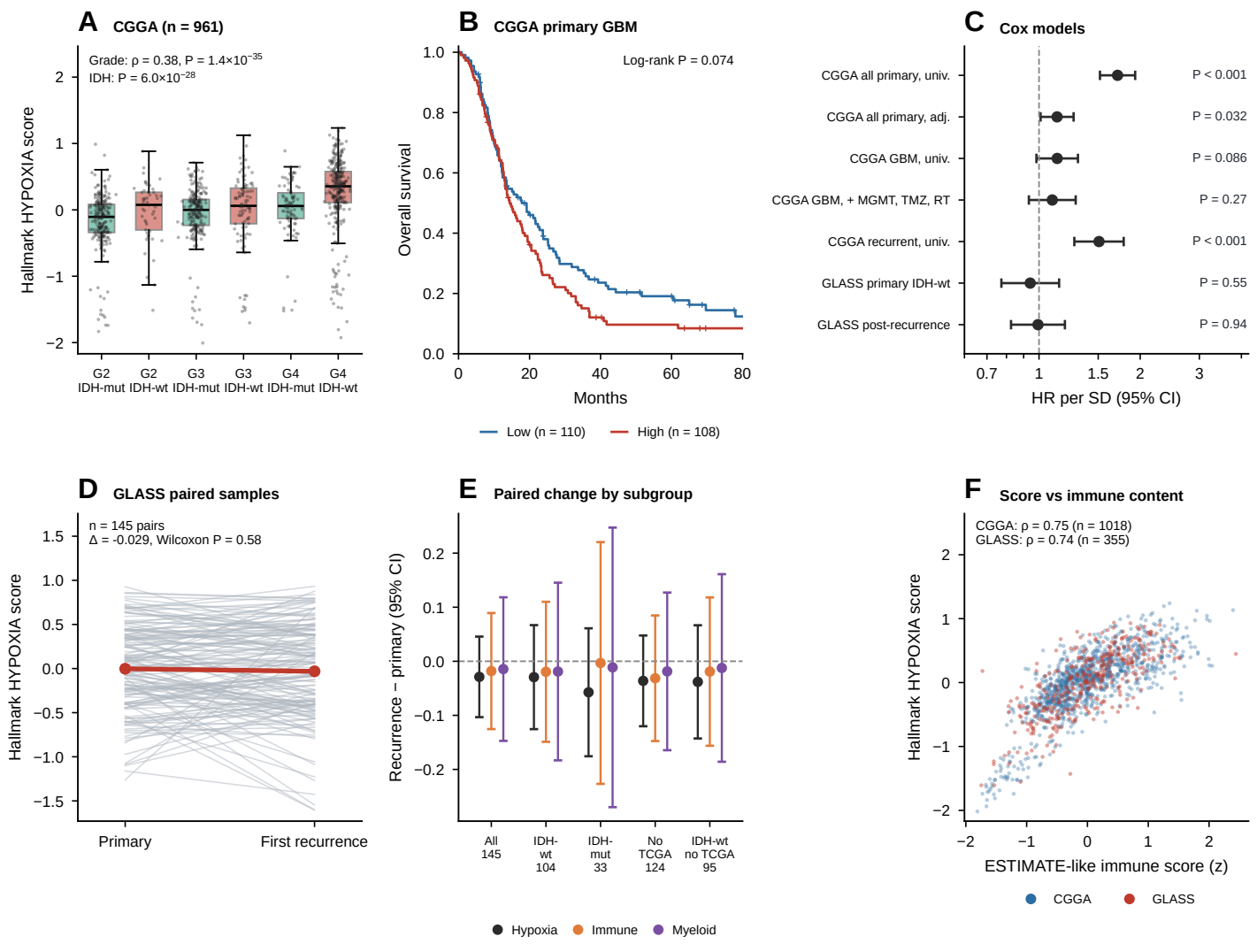

A
CGGA (n = 961)
Grade: ρ = 0.38, P = 1.4×10−35
IDH: P = 6.0×10−28
Hallmark HYPOXIA score
G2 IDH-mut
G2 IDH-wt
G3 IDH-mut
G3 IDH-wt
G4 IDH-mut
G4 IDH-wt
B
CGGA primary GBM
Log-rank P = 0.074
Overall survival
Months
Low (n = 110)
High (n = 108)
C
Cox models
CGGA all primary, univ.
CGGA all primary, adj.
CGGA GBM, univ.
CGGA GBM, + MGMT, TMZ, RT
CGGA recurrent, univ.
GLASS primary IDH-wt
GLASS post-recurrence
P < 0.001
P = 0.032
P = 0.086
P = 0.27
P < 0.001
P = 0.55
P = 0.94
HR per SD (95% CI)
D
GLASS paired samples
n = 145 pairs
Δ = -0.029, Wilcoxon P = 0.58
Hallmark HYPOXIA score
Primary
First recurrence
E
Paired change by subgroup
Recurrence − primary (95% CI)
All 145
IDH-wt 104
IDH-mut 33
No TCGA 124
IDH-wt no TCGA 95
Hypoxia
Immune
Myeloid
F
Score vs immune content
CGGA: ρ = 0.75 (n = 1018)
GLASS: ρ = 0.74 (n = 355)
Hallmark HYPOXIA score
ESTIMATE-like immune score (z)
CGGA
GLASS