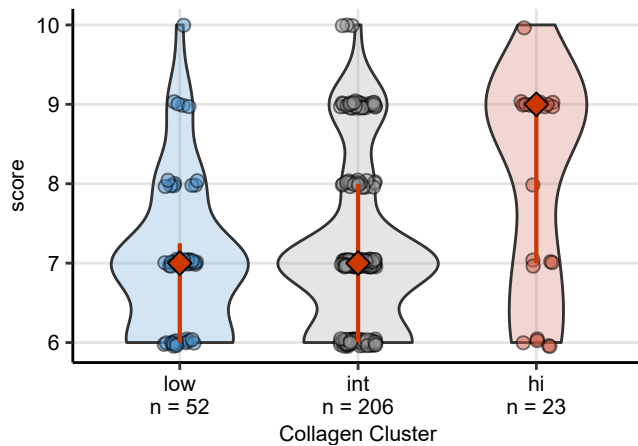**Gleason sum score, TCGA** — $\eta^2 = 0.055$, $p < 0.001$
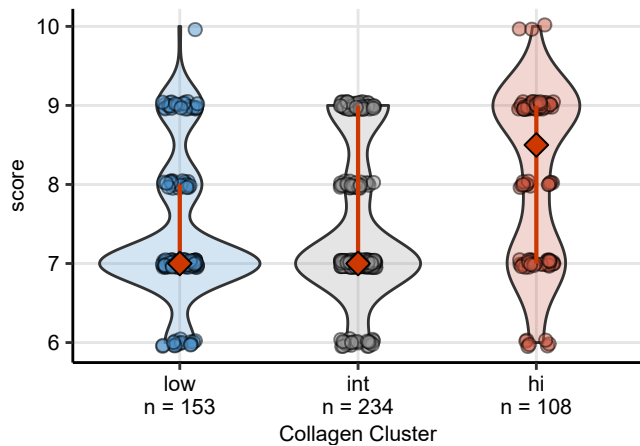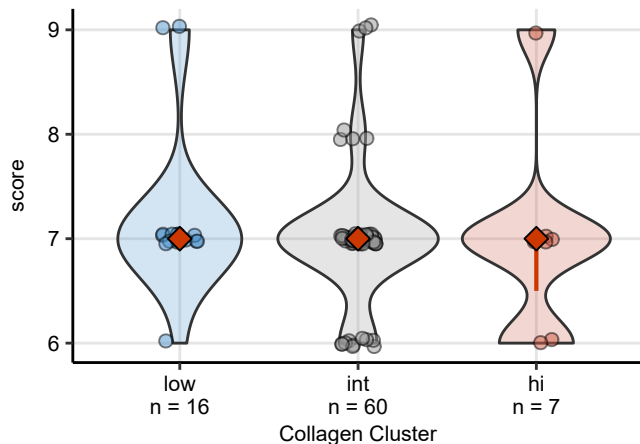
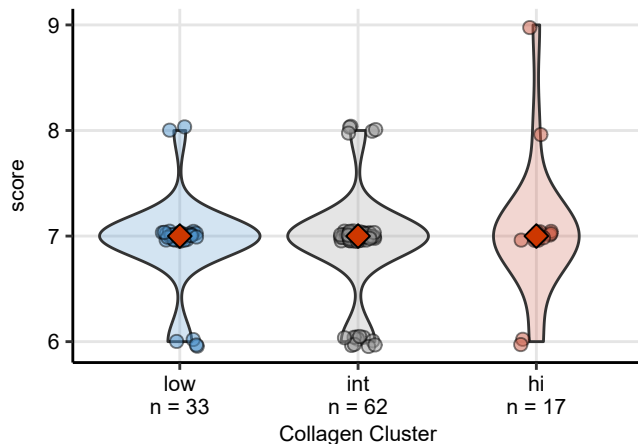**Gleason sum score, GSE16560** — $\eta^2 = 0.026$, $p = 0.014$

Gleason sum score, GSE40272 — $\eta^2 = -0.011$, ns ($p = 0.89$)

Gleason sum score, GSE70768 — $\eta^2 = -0.013$, ns ($p = 0.94$)

Gleason sum score, GSE70769 — $\eta^2 = 0.053$, ns ($p = 0.11$)