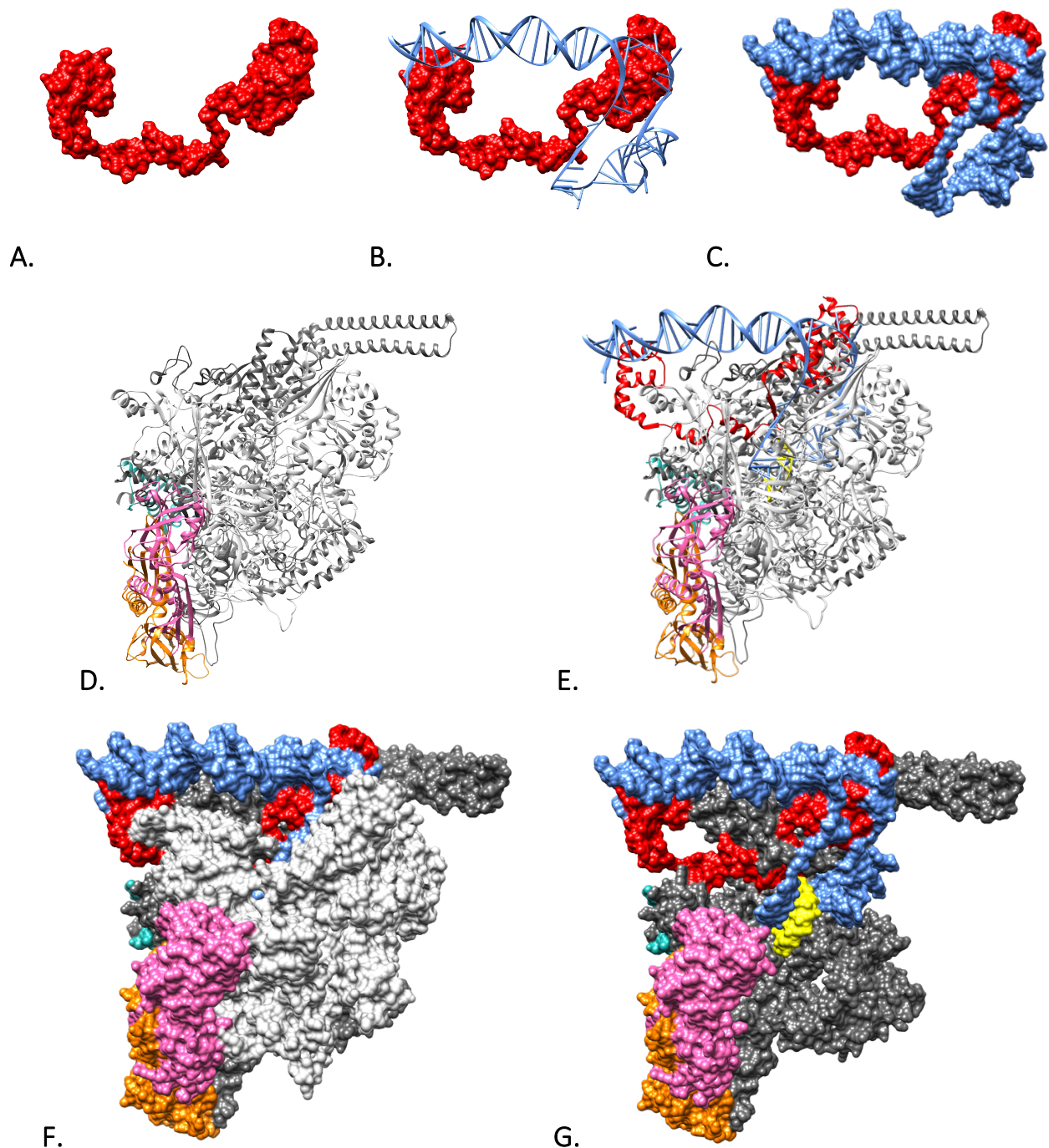


INFORMATION TRANSCRIBER

RNA polymerase (with sigma factor)



Structural Representations of Transcription initiation complex in E. coli (5ZX2):

Sigma factor (SigH): A. Surface model; B. Surface model with ribbon model of DNA (blue); C. Surface model of sigma factor bound to DNA.

DNA-directed RNA polymerase: D. Ribbon model (subunits: α -subunits (pink & orange), β -subunit (light grey); β' -subunit (dark grey), ω -subunit (green)); E-G. RNA polymerase bound to sigma factor and DNA, (mRNA in the catalytic center in yellow): E. Ribbon model, F. Surface model, G. Surface model with β -subunit removed (catalytic site with mRNA shown).