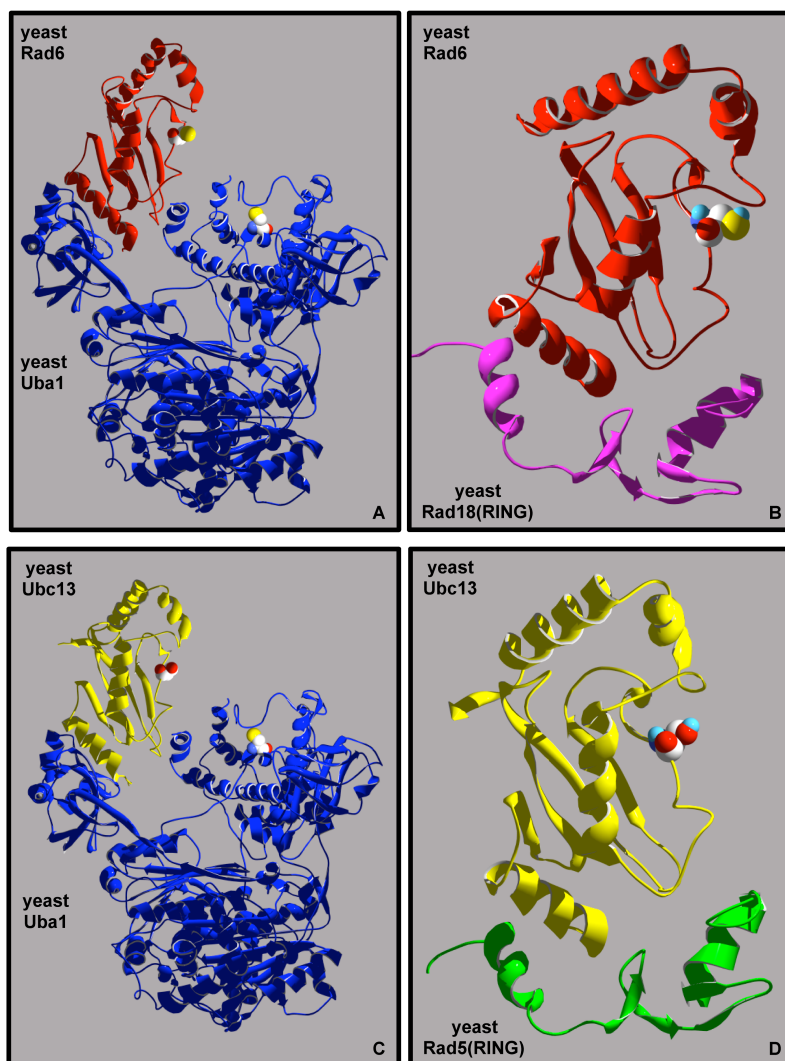


ADDITIONAL FILE 8

Hypothetical yeast E1-E2 and E2-E3 complexes involved in PCNA mono- and poly-ubiquitylation obtained through structural modeling of PRR complexes



- (A) Hypothetical yeast E1-E2 complex Uba1(blue)-Rad6(red).
- (B) Hypothetical yeast E2-E3(RING) complex Rad6(red)-Rad18(RING)(magenta).
- (C) Hypothetical yeast E1-E2 complex Uba1(blue)-Ubc13(yellow).
- (D) Hypothetical yeast E2-E3(RING) complex Ubc13(yellow)-Rad5(RING)(green).

The active sites of the proteins are rendered in solid 3D, namely, Cys600 for Uba1, Cys88 for Rad6, Cys87 for Ubc13.