



**Figure S4: Relative repair activity between chromatin domains is reversed after 24 hours of repair compared to 30 minutes. (A)** CPD repair data (24h) across Chromosome 2 of the *Drosophila*

genome. Data is normalized to cellular damage levels. (B) Chromatin domains superimposed on repair data. Data is zoomed in on positions between 5Mb and the end of Chromosome 2R for increased bin resolution and to exclude the centromere-proximal region which does not have defined domains. Chromatin type was assigned when at least 50% of the bin was covered by regions assigned to that type. Bins that failed to meet this threshold are colored grey. (C,D)

Distribution of repair activity for bins of each chromatin type in the Chromosome 2R subset (C) and genome-wide (D). The letters above each plot categorize statistically different distributions, as determined by a one-way ANOVA and Tukey's multiple comparisons test ( $p < 0.01$ ). Outliers beyond the whiskers of each plot represent the bottom 2.5% and top 2.5% of that distribution.