



**Supplemental Figure 7.** Distribution of 5mC, 5hmC, and histone distribution across genes and their 10 Kb flanking regions. 5mC and 5hmC distribution around genic region (A) liver normal (B) liver tumor. (C) H3K4me1 and H3K9ac in liver normal. (D) H3K27ac and H3K4me3 in liver normal. (E) H3K36me3 in liver normal (F) 5hmC distribution around TSS for active genes with promoter CGI or without in liver normal.