



**Supplemental Figure S9** - Lollipop plots show the result of permutation analyses (10,000 permutations) to test the overlap between TADs binned by size (different ranges showed left and right) and BOS regions (y-axis =  $-\log_{10} p\text{-values}$ ). Dotted line marks 0.05 significance threshold with no multiple-test correction. Cross-species comparison points to conservation of boundaries for 500kb-1Mb and 400-600kb TADs.