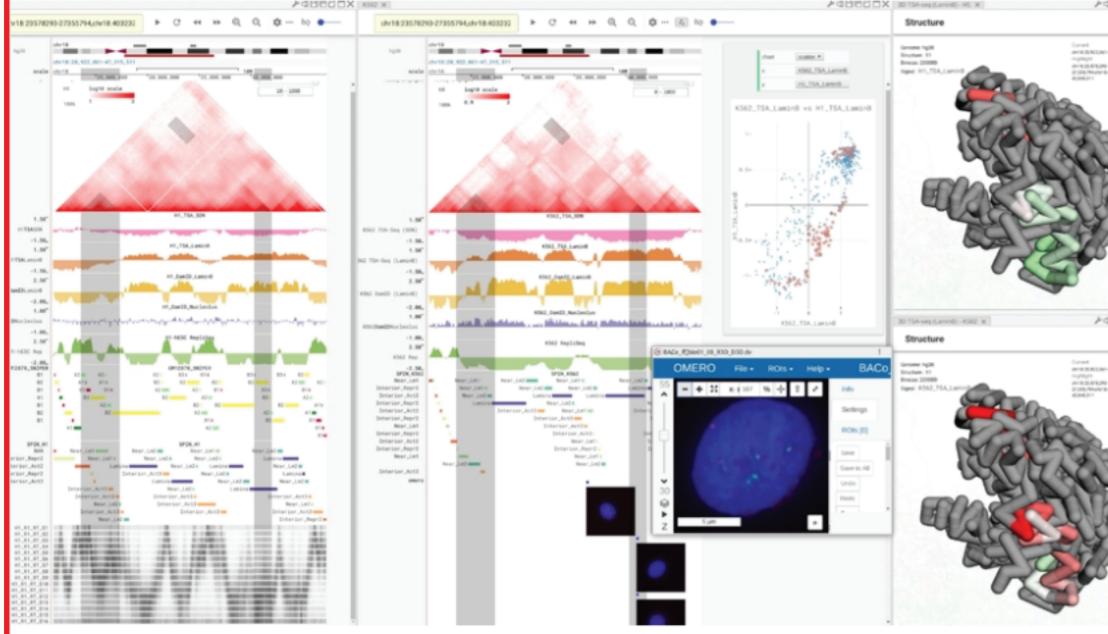


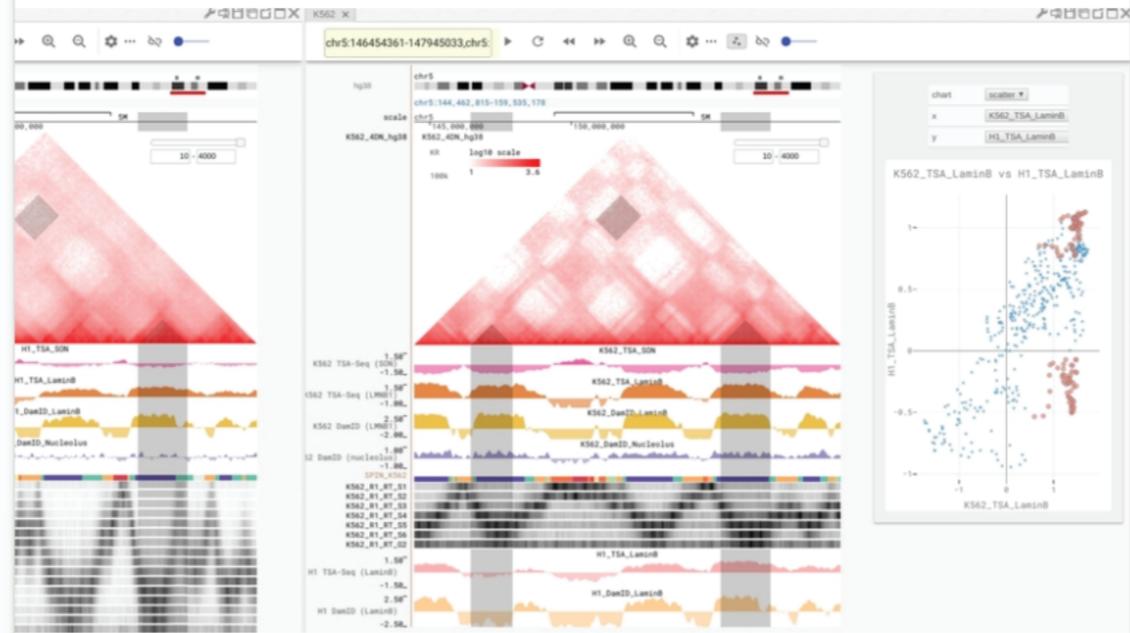
Multi-modal integrative analysis



Users can use Nucleome Browser to interactively explore genomic data, imaging data, and 3D structural models and come up with novel hypotheses. In this example, two genome browser panels on the left show the comparison of versatile datasets probing the 3D genome organization between the human H1 and K562 cell in chromosome 18. Those tracks include the 45 degrees rotated Hi-C contact maps TSA-seq and DamID tracks targeting different nuclear



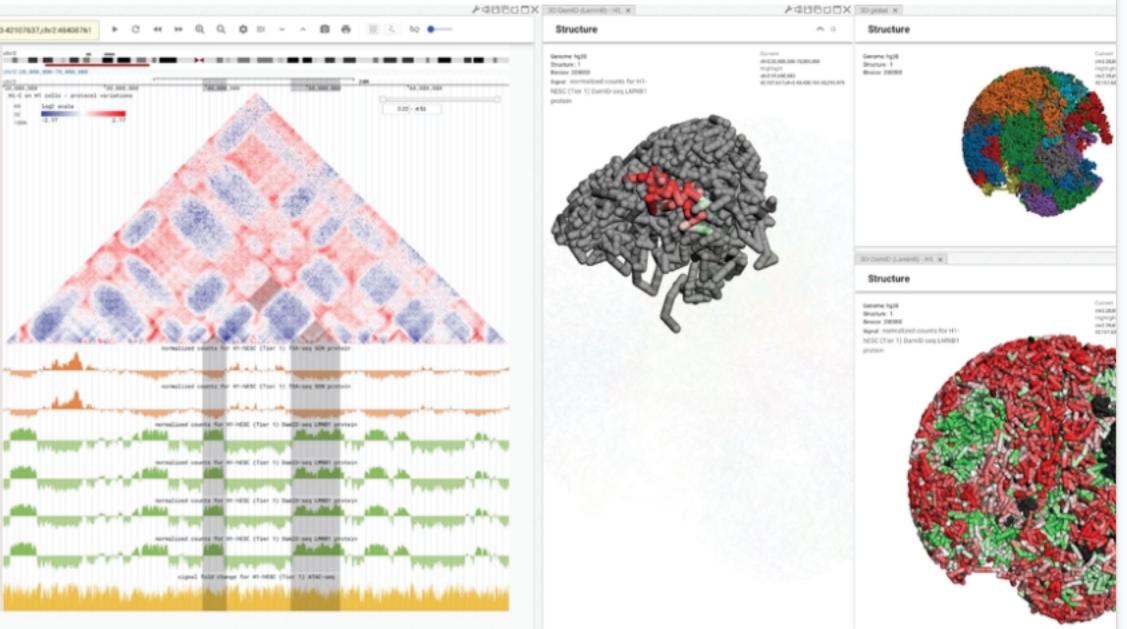
An example of different SPIN and different repli-seq between H1 and K562 cell



Nucleome Browser can facilitate the comparisons of multi-modalities across different cell types/conditions. The screenshot shows an example of visualization of a chromatin segment of chromosome 5 between H1 and K562. The highlighted region on the left indicates a cell-type-specific region showing dramatically different TSA-seq, DamID, and replication timing profiles while the highlighted region on the right represents a conserved lamina



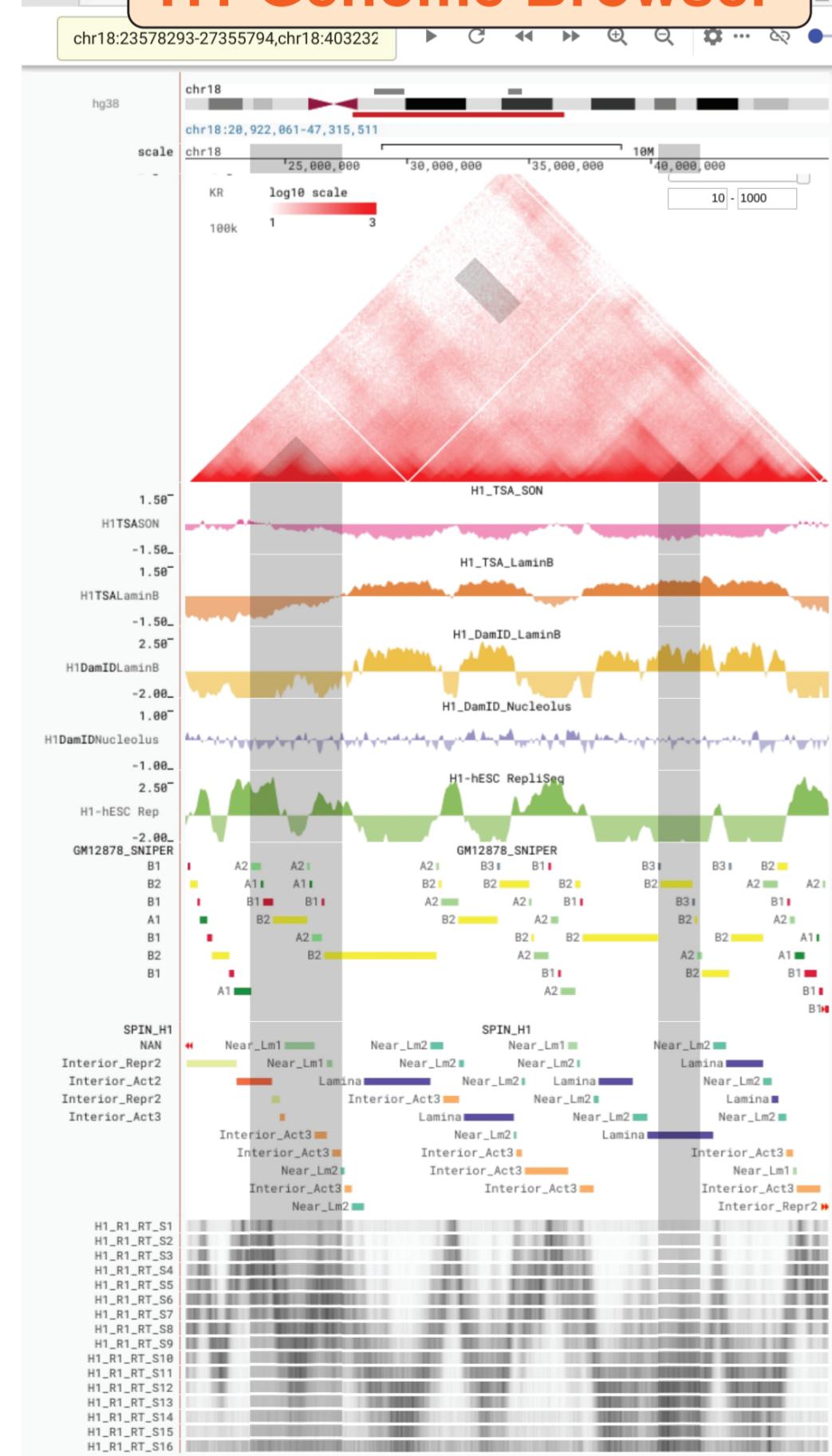
Super-impose bigwig on 3D structure



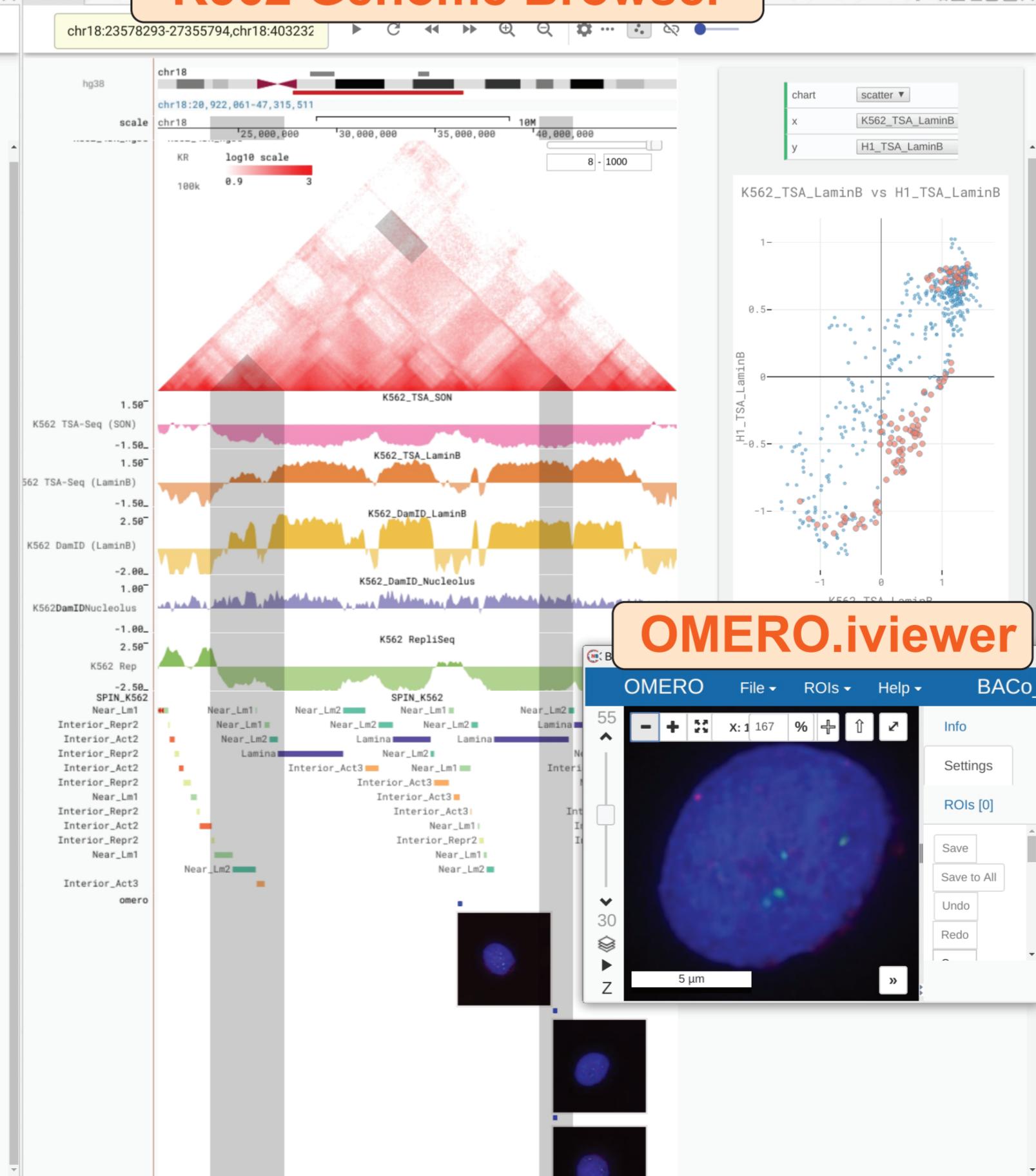
An illustration of integrative analysis of genomic and 3D structure model in H1 cell using the 4DN public data. 3D structural model is from Frank Alber's lab.



H1 Genome Browser



K562 Genome Browser



DNA 3D Structures

