

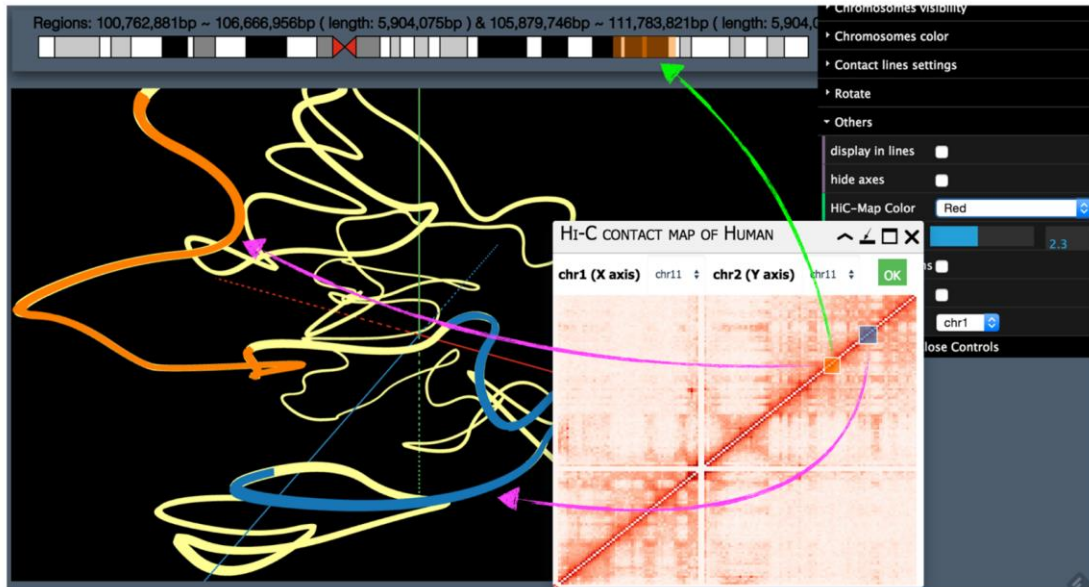
**a**

Chromosomes visibility	
display all	<input checked="" type="checkbox"/>
chr1	<input checked="" type="checkbox"/>
chr2	<input checked="" type="checkbox"/>
chr3	<input checked="" type="checkbox"/>
chr4	<input checked="" type="checkbox"/>
chr5	<input checked="" type="checkbox"/>
chr6	<input checked="" type="checkbox"/>
chr7	<input checked="" type="checkbox"/>
chr8	<input checked="" type="checkbox"/>
chr9	<input checked="" type="checkbox"/>
chr10	<input checked="" type="checkbox"/>
chr11	<input checked="" type="checkbox"/>
chr12	<input checked="" type="checkbox"/>
chr13	<input checked="" type="checkbox"/>
chr14	<input checked="" type="checkbox"/>
chr15	<input checked="" type="checkbox"/>
chr16	<input checked="" type="checkbox"/>

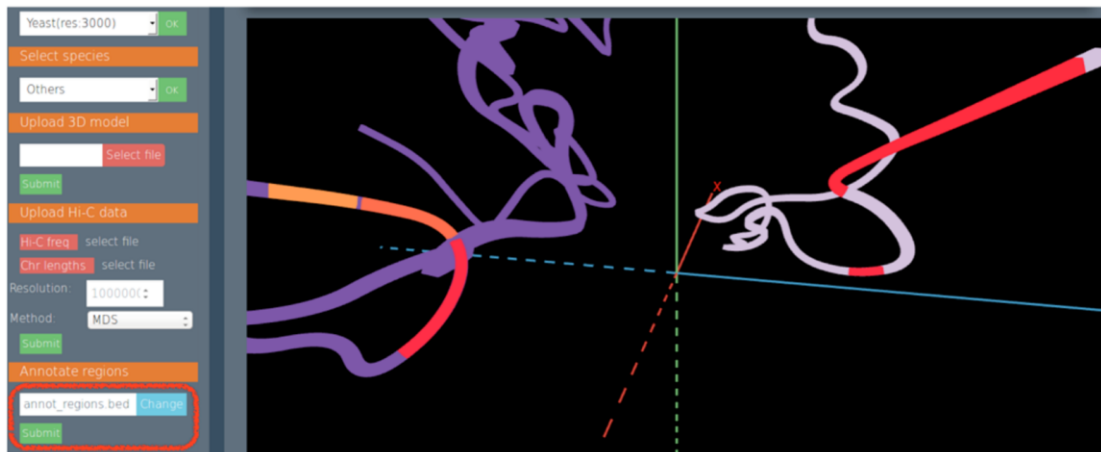
**b**

Chromosomes color	
chr1	<input checked="" type="checkbox"/> #1f78b4
chr2	<input checked="" type="checkbox"/> #fb9a99
chr3	<input checked="" type="checkbox"/> #e31a1c
chr4	<input checked="" type="checkbox"/> #fdbf6f
chr5	<input checked="" type="checkbox"/> #ff7f00
chr6	<input checked="" type="checkbox"/> #cab2d6
chr7	<input checked="" type="checkbox"/> #6a3d9a
chr8	<input checked="" type="checkbox"/> #ffff99
chr9	<input checked="" type="checkbox"/> #b15928
chr10	<input checked="" type="checkbox"/> #8dd3c7
chr11	<input checked="" type="checkbox"/> #ffffb3
chr12	<input checked="" type="checkbox"/> #bebada
chr13	<input checked="" type="checkbox"/> #fb8072
chr14	<input checked="" type="checkbox"/>
chr15	<input checked="" type="checkbox"/>
chr16	<input checked="" type="checkbox"/>

**Figure S1. Chromosome display customization panels.** (a) Chromosome visualization menu to show/hide chromosomes. Only the selected chromosomes are displayed in the 3D space. (b) With the chromosome color menu, one can change the color of every chromosome easily.



**Figure S2. 1D to 2D to 3D mapping.** Example showing the 2D to 3D mapping functionality on the human chromosome 11. The color of the highlighted regions in the 2D Hi-C map is the same as the one highlighted in the 3D model as shown by the pink arrowheads. The green arrowhead indicates the 2D to 1D mapping.



**Figure S3. Example showing that genomic regions can be highlighted by uploading a BED file.** In this example a BED file which contains the genomic coordinates of 5 regions (colored from yellow to red) was uploaded. If the user associates a score with each region, a gradient color "Yellow---Orange---Red" will be used to highlight the regions with the lowest

scores colored in yellow and larger scores in red.