



# MS10

## A Javascript based browser

Multiscale Complex Genomics

For 1D genomic data taking input from 3D models and genome based annotation



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INSTITUTE FOR RESEARCH IN BIOMEDICINE



Barcelona Supercomputing Center

Centro Nacional de Supercomputación

cnag



Centre for Genomic Regulation



The University of Nottingham

UNITED KINGDOM - CHINA - MALAYSIA

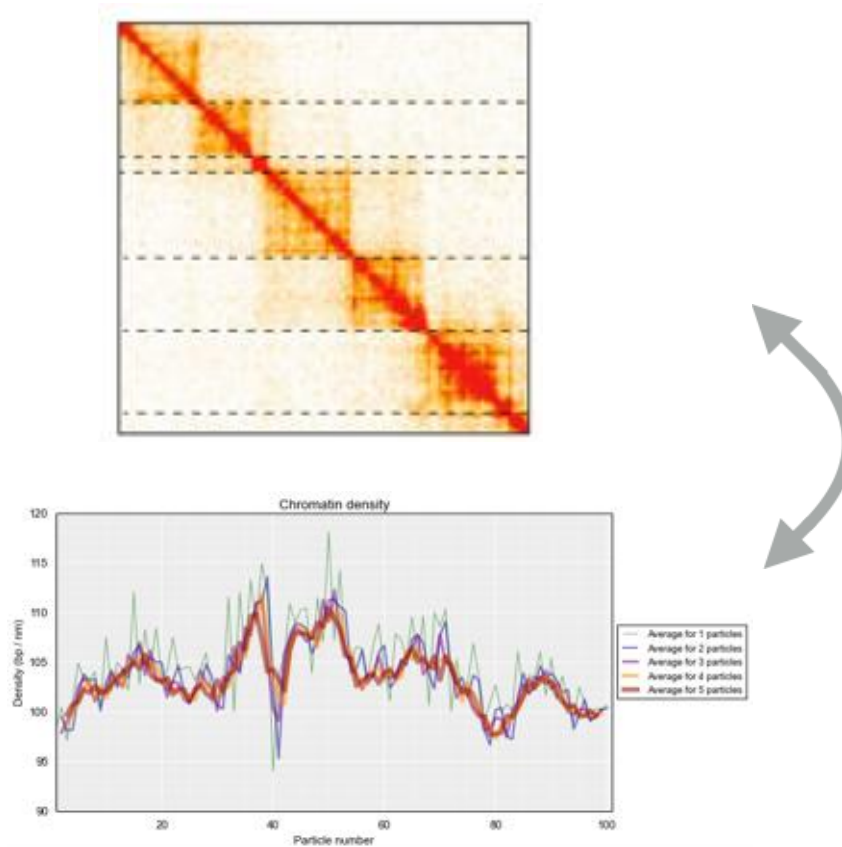
EMBL-EBI





# Disparate data dimensions

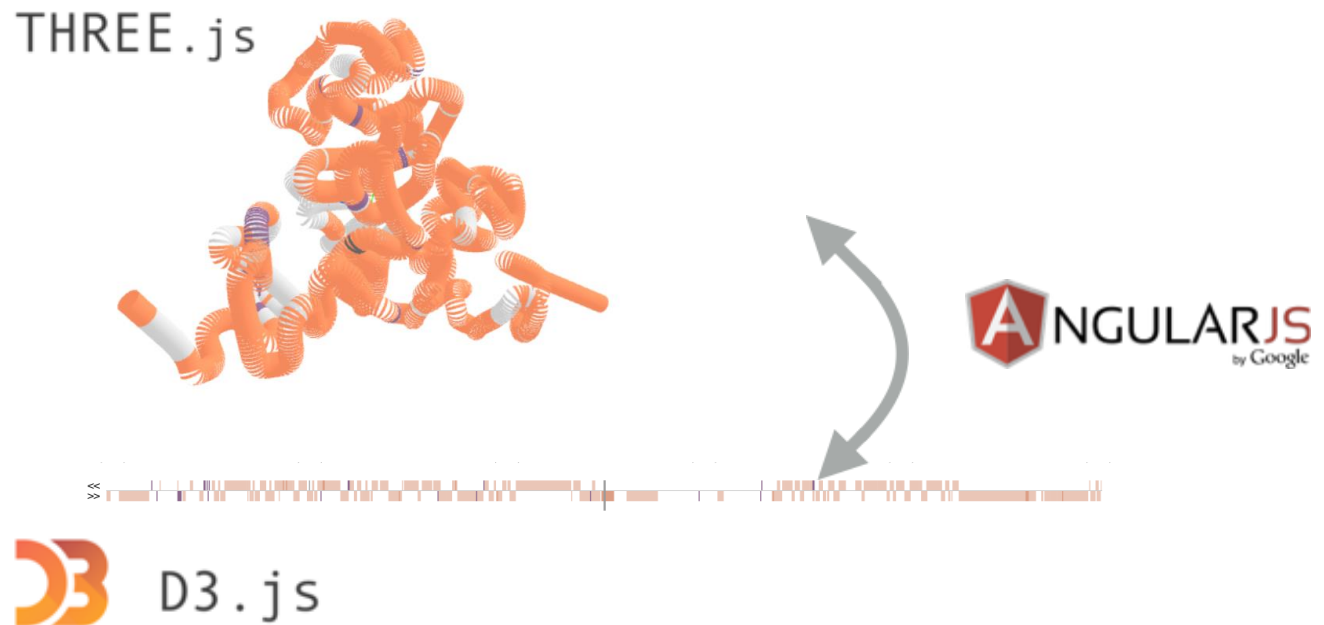
- Genomic research produces spatial models and genome annotations.
- Bringing these together facilitates understanding and further research.





# Bringing together models and annotation

- Web-based technologies create accessible representations of the data.
- These are linked and the data overlaid to help visualize relationships.





# A javascript-based browser

- The browser imports 3D models and fetches basic annotations of genes.
- The user can also Add Tracks of experimental data in common formats.





# TADkit online

- TADkit can be used locally or at: <http://sgt.cnag.cat/3dg/tadkit/>
- Currently it is being developed towards D3.2 and D3.2





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