Reconstructing chromosome conformation by fluorescence microscopy

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6 Mb of labeled human chromosome 4

spots in 3D

label & image

Chromosome position (Mbp)

147 148 149 150 151

1 μm

2015 Rocky Bioinformatics Conference

Fabio Anaclerio
Andrew Laszlo
Color-scrambled controls: $p$-ratio

$Z = 1.00$

$Z \propto \Sigma e^{-E}$
Good mappings from fat chromosomes

- "good mappings from fat chromosomes" text on the top.
- A scatter plot showing the relationship between thickness (µm) and $Z_{true}$ (percentile).
- Two categories of data points: blue circles for correct # spots and red triangles for wrong # spots.
- The graph illustrates that as the thickness increases, the $Z_{true}$ percentile decreases, indicating a potential issue with mapping.

References:
- Brian.Ross@UCDenver.edu
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