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Information about the contributions of each person named as having participated in the study

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The guarantors of this manuscript confirm that all persons designated as authors qualify for authorship, and that each author has participated sufficiently in the work to take public responsibility for appropriate portions of the content.

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3) Design & Methods. The following authors were responsible for specific investigations (please detail):

- SM and HK designed experiments and methods

4) Results. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):

- Amanda Guffei carried out the experiments and wrote the relevant sections of the paper.
- Rahul Sarkar developed ChromoAnalyze
- Christiaan Righolt contributed the graphs and statistical analysis to chromosomal overlaps
- Ludger Klewes prepared the samples for 3D-SIM
- Hans Knecht and Sabine Mai conceived the study, analyzed the data, finalized the manuscript and supervised Amanda Guffei, Rahul Sarkar, Christiaan Righolt, Ludger Klewes during the course of this work.

5) Writing the manuscript. The following authors were responsible for writing the manuscript:

- all authors contributed to the writing.

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