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(54) **Title:** IN SITU ANALYSIS OF CHROMATIN INTERACTION

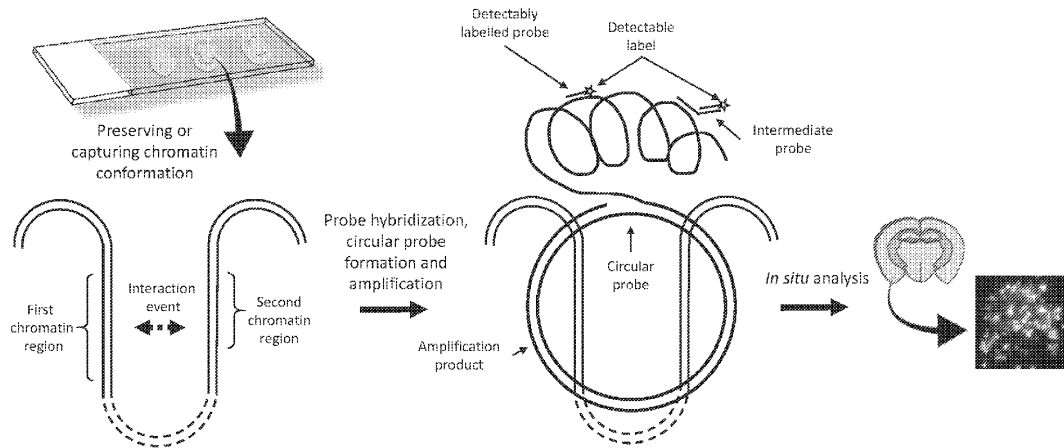


FIG. 1

(57) **Abstract:** In some embodiments described herein are methods performed in situ for analyzing chromatin interaction events in a cell or in cells of a sample such as a non-homogenized tissue sample. The methods can comprise the spatial analysis of chromatin interaction events across cell populations in a biological sample. The methods can further comprise obtaining a biological sample, hybridizing probes to target nucleic acid sequences involved in chromatin interaction events and producing a nucleic acid sequence comprising all or part of the target nucleic acid sequences, amplifying the nucleic acid sequence so produced and detecting the amplified nucleic acid sequence *in situ*.

[Continued on next page]

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