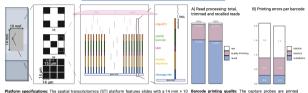
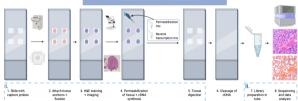
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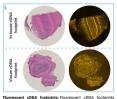
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mm printable area containing 786 432 spots (14 um × 14 um) with 1 um spacing. Each spot holds 2-5 onto the slides using photolithography, an error prone million capture probes consisting of a cleavage site, nextera sequence, unique molecular identifier (UMI), spatial barcode, and oligo(dT). Printing can be done in full density, 1/2 density, or 1/4 density.

technology, A) shows the recall rate of probes, which is approximately 70% for the 1/4 design. B) presents the average number of errors per barcode (36 nt). with deletions being the most common errors.





from olfactory bulb tissue were successfully generated by incorporating Cy3-dCTP into the reverse transcription (RT) reaction mix. After tissue digestion, the slide was scanned with a fluorescence scanner to visualize the footprints. The top image was obtained using the Visium 10X Genomics reagents, the bottom image with in-house reagents.



library preparations: Comparison of protein-coding genes detected using our inhouse library preparation method versus QuantSeqPool (Lexogen) with identical RNA input quantities. Both methods vield comparable raquilto

- · Sequence libraries obtained with spatial transcriptomics workflow Make spatial transcriptomics workflow compatible with FFPE
 - tissue · Develop a targeted spatial transcriptomics protocol

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