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(54) **Title:** SYNTHETIC BARCODING OF CELL LINE BACKGROUND GENETICS

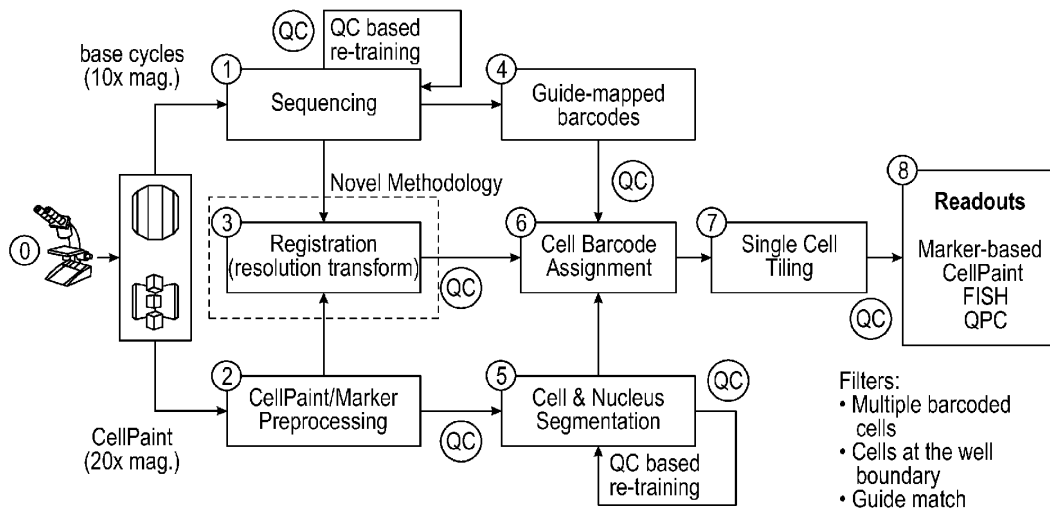


FIG. 5

(57) **Abstract:** Provided herein are methods of pooled screening of cells from different genetic backgrounds. Also provided herein are computer-implemented methods for aligning between a first plurality of images and a second plurality of images of biological samples.

[Continued on next page]

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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