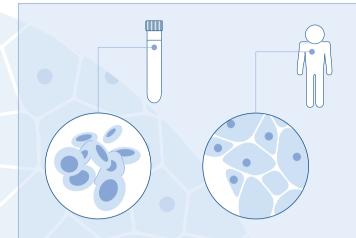
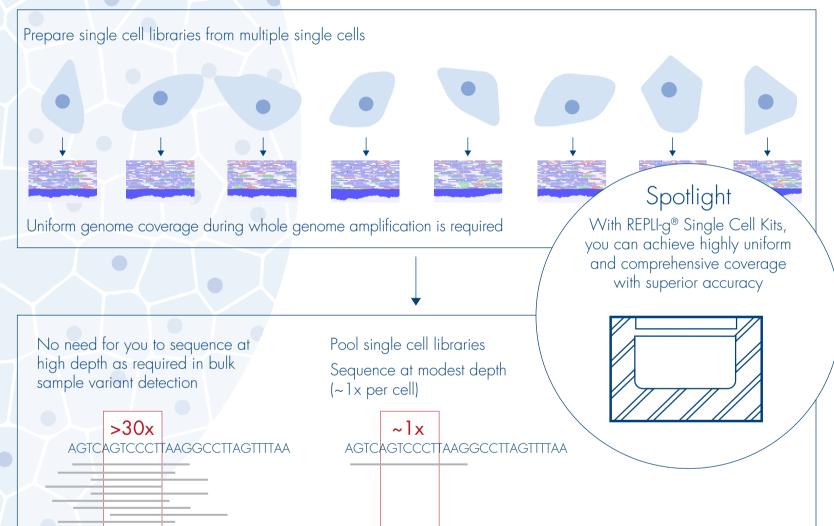


Achieve improved variant detection in single cell sequencing



"For clinical samples with a limited number of cells, such as fine-needle aspirates or circulating tumour cells, the most interesting genetic variants are shared among the cells, ... it is most efficient to perform 'census-based variant detection' from multiplexed sequencing of independently amplified single-cell DNA libraries, each sequenced to modest depths (~1x)."¹

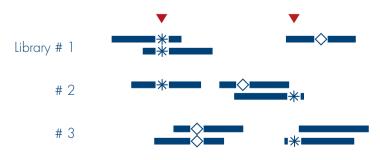
Accurate variant detection in rare cells – feasible and affordable



Why is single cell variant detection in cancer important?

- Facilitates your identification of tumor subpopulation and founder mutations
- Enables you to analyze circulating cells for non-invasive monitoring and early detection
- Simplifies your understanding of tumor phylogenetic trees and cell lineages

Census-based variant detection: increase variant detection power and reduce false positives from library preparation¹



★ Accept (variant allele detected in ≥2 libraries)
♦ Reject (variant allele detected in 1 library only)

¹ Zhang, C.-Z. et al. (2015) Calibrating genomic and allelic coverage bias in single-cell sequencing, Nat. Comm. 6, 6822.

Trademarks: QIAGEN®, Sample to Insight®, REPLIg® (QIAGEN Group). For up-to-date licensing information and product-specific disclaimers, see the respective kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at **www.qiagen.com** or can be requested from QIAGEN Technical Services or your local distributor. © 2016 QIAGEN, all rights reserved. PROM-9403-001

1101136

Sample to Insight