



# Transforming drug discovery with single cell CRISPR screens

Single cell CRISPR screens bring more information-rich data to drug discovery pipelines, amplifying the number of targets assessed in parallel and providing a direct readout of perturbation effects on gene expression at single cell resolution. Deepen your characterization of gene function and disease pathways to inform earlier decisions, narrow in on impactful targets, and accelerate novel therapeutics to clinical studies with confidence.

Learn more about Chromium Single Cell CRISPR Screening from 10x Genomics: [10xgenomics.com/single-cell-crispr](https://10xgenomics.com/single-cell-crispr)

#### REFERENCES

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Target identification >

Target validation >

Pre-clinical studies >

TRADITIONAL DRUG DISCOVERY



## Scale

Traditional methods to assess targets are cumbersome.

Efficiently characterize hundreds of promising targets in parallel with higher content readouts.<sup>1</sup>



## Optimize

Disease complexity can mask the most effective targets.

Inform and improve target selection with robust characterization of regulators of disease progression and resistance.<sup>4,5</sup>



## Accelerate

Compounds that fail in late stages waste time and resources.

Confidently advance targets to trials with upfront toxicity profiles to expedite your pipelines.<sup>6</sup>



## Reduce risk

Limited early characterization of drug targets increases uncertainty.

Understand mechanism of action to prioritize targets with the most favorable safety profiles and phenotypic effects.<sup>2,3</sup>

WITH  
10X GENOMICS  
SINGLE CELL  
CRISPR SCREENS

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