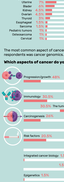
BioTechniques Spotlight

Key trends in therapeutic and single-cell and spatial oncological studies

Key trends

Which types of cancer do you work with?



The most common aspect of cancer studied by our respondents was cancer genomics.

Which aspects of cancer do you investigate?

What is the primary goal of your research?

Therapeutic design

There are many challenges associated with designing therapeutics for cancer, including the complex tumor microenvironment, and tumor heterogeneity.

What is the biggest challenge in designing therapeutics for cancers?

Modeling cancer

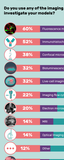
To test and identify new therapeutics, models of cancer are required, with most of our audience using in vitro systems.

What medium do you use to study/model cancers?

If you answered in vitro, which models/samples do you study?

If you answered in vivo, which models do you use?

If you answered in silico, please detail the systems you use below?



Do you use any of the imaging techniques below to investigate your models?

Single-cell and spatial oncology

Some of the most innovative new technologies with which to investigate cancer are single-cell and spatial omics approaches, with over 50% of our respondents using them in some capacity.

Do you use single-cell or spatial techniques in your research?

What methods do you use for single-cell isolation?

Once isolated, what kind of analysis do you perform on your single cells?

What do you see as the biggest challenge or barrier to using single-cell techniques?

Which spatial profiling techniques do you use?

What do you see as the biggest challenge or barrier to using spatial profiling techniques?

About the respondents

Location

Sector

Job title

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10x GENOMICS