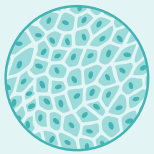
LEVITAS BIO

RISKS TO SINGLE-CELL SEQUENCING RESEARCH

As single-cell sequencing continues to take center stage across nearly all biological sciences, scientists spanning numerous industries across the globe are recognizing its power as an investigative tool. However, the risk of suboptimal tissue preparation and the associated impact on one's research may be less noticeable. Here, we highlight potential risks and how they can negatively impact single-cell sequencing research.

WORKFLOW	CHALLENGES	RISKS
 TISSUE	**LIMITED SAMPLE** Some biological samples are too small to process and are left unused in storage.	**STALLED RESEARCH** Until unusable samples can be processed successfully, research can be stalled.
 SAMPLE PREP	**INADEQUATE TOOLS OR PROCESS** Many tools and processes for tissue preparation damage or destroy the sample.	**SAMPLE AND MONEY LOST** Financial investments are lost when samples are destroyed or damaged during preparation and subsequent assays may not be possible.
 DATA ANALYSIS	**UNUSABLE DATA** Compromised data may not be realized until after bioinformatic analysis.	**HIGHER COST OF RESEARCH** Discovering data is unusable is a costly mistake, particularly when a single-cell sequencing assay can cost $10K or higher.
 RESULTS	**DISPUTABLE DATA** Suboptimally processing low quality samples can result in poor QC metrics and questionable data.	**UNPUBLISHABLE RESULTS** Presenting or attempting to publish with low quality data risks manuscript rejection and possibly one's reputation.

IMPACT:

LACK OF QUALITY DATA CAN
LEAD TO REPEAT EXPERIMENTATION AND INCONCLUSIVE RESULTS
MAKING YOUR RESEARCH LESS CREDIBLE AND COSTLY.

These challenges can be addressed through Levitation Technology and the LeviCell workflow. Learn more at levitasbio.com.