

Live-Cell Sequencing for Same-Cell Biology

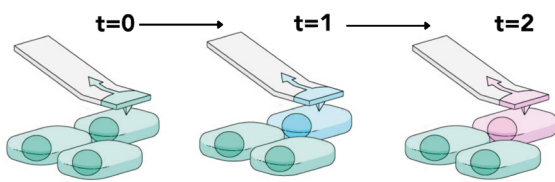
— The Revolution Isn't Single-Cell - It's Same Cell

Live-cell sequencing (Live-seq) is the world's first non-destructive single-cell sequencing workflow — and the foundation of **the new paradigm of Same-Cell Biology**.

Traditional sequencing kills the cell to access its RNA, giving you a terminal snapshot and forcing you to guess cellular trajectories through pseudo-time.

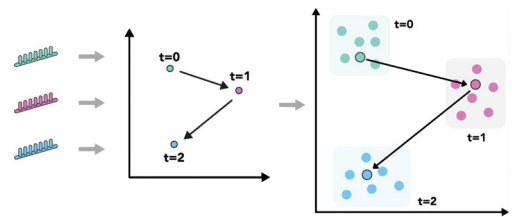
With Live-seq you can know exactly how the same cell changes: **turning snapshots into a Movie**.

Temporal profiling that brings true causality to your datasets



Track same-cell gene expression changes across hours or days and link interventions directly to same cellular response.

Mechanistic resolution that offers relevant disease insights



Understand pathways, not just end-points, and discover targets that matter in real disease contexts.

This shift to Same-Cell Biology fundamentally changes how biological questions are answered and how decisions are made in Pharma, Biotech, and advanced research.

Key publications



NEW: Fluidic force microscopy, Zambelli *et al.* Nature Reviews Methods Primers (2026)



Live-seq enables temporal transcriptomic recordings of single cells, Chen *et al.* Nature (2022)



Tunable Single-Cell Extraction for Molecular Analysis, Guillaume-Gentil *et al.* Cell (2016)

Seamless integration of Cytosurge hardware and Lexogen chemistry

1. Select & Biopsy (FluidFM® OMNIUM)



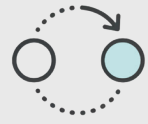
2. Library preparation (Lexogen LUTHOR HD)



3. Monitor & Perturb



4. Re-sample

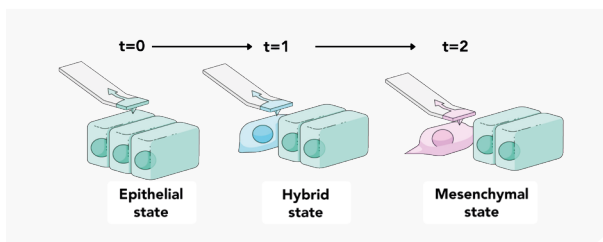


1. Collect 1-4 pL cytoplasm (<1 pg RNA) with an average cell viability of 85-95% with FluidFM® OMNIUM.
2. Prepare sequencing libraries from minute biopsies using the proprietary THOR amplification that reliably detects thousands of genes from sub-picogram inputs.
3. Track your cell's morphology, migration or division, or treat it with a drug, stimulus or co-culture - all while the cell continues to grow in the incubator.
4. Biopsy the same cell hours or days later to capture its transcriptomic response over time.

Endless use cases

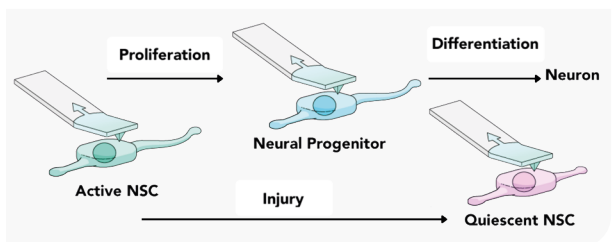
Track Epithelial-to-Mesenchymal Transition (EMT) while it happens

Gain causal insights into gene expression patterns that initiate cancer metastasis.



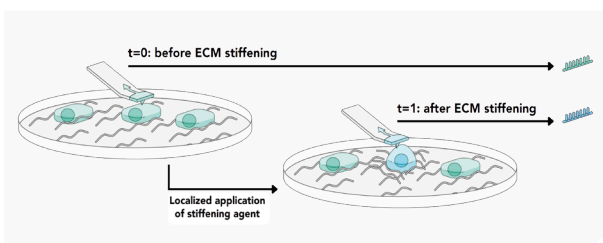
Track decision points for neural fate commitment

Establish causal molecular signatures in neural progenitor cells that drive neural fate.



Identify pre-existing "resistance signatures" imprinted by the microenvironment

Achieve causal insights of drug response before the drug is even applied.



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"Live-seq enables us to gather data that would be impossible to obtain otherwise, providing insights that can then guide more high-throughput approaches."

- Dr. Leanne de Koning
Project Manager of the Single Cell Initiative, Institut Curie, France