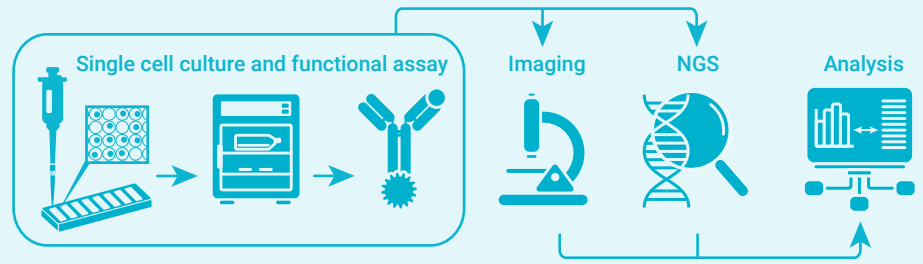


# Consumables conceived by biologists for biologists

## Flexomics Workflow:



## 8 sites / 8-sample consumables

**Consumable Dimensions:** 25x75mm – compatible with standard microscope slide holder

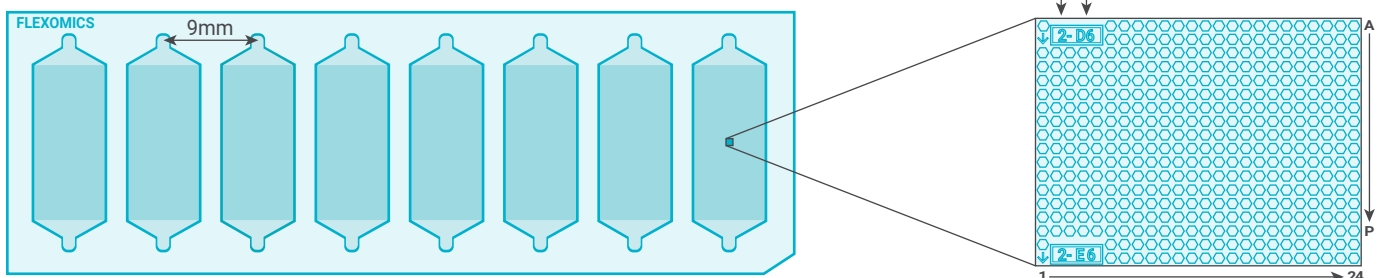
**Number of wells:** per site / sample: 77,784

**Well layout:** 208 subsections of ~16x24 layouts mimicking 384 well-plate format with individual ID fiducial for easy site/well navigation

**Well geometry:** circles and hexagons available – 30µm diameter and 35µm depth

**Spacing between sites:** 9mm - compatible with multi-channel pipettes and automated liquid handlers

**Well mapping:** well pre-loaded with optically encoded barcoded capture beads (~1 million barcodes available)



## Cellular assay

**Live cell enabled:** gas permeable for easy incubation in standard CO<sub>2</sub> incubators

**Type of assays:** immunofluorescence-based assays such as antibody staining, secretion assays, proliferation assays

**Assay working volume:** 100µl recommended (as low as 50µl), 500µl reagent reservoirs

## Imaging

**Microscope compatibility:** compatible with most inverted fluorescent microscopes

(microscopes tested include: Nikon Ti2-E, Evos FL Auto 2, Leica DMI8, Keyence BZ-X700, Zaber Nucleus)

**Magnification:** 2x-40x compatible

**Brighfield / Fluorescence:** brightfield and standard fluorescent channel enabled (e.g. DAPI, CFP, FITC, YFP, RFP/Cy3, mCherry, Cy5, Cy7)

## Sequencing

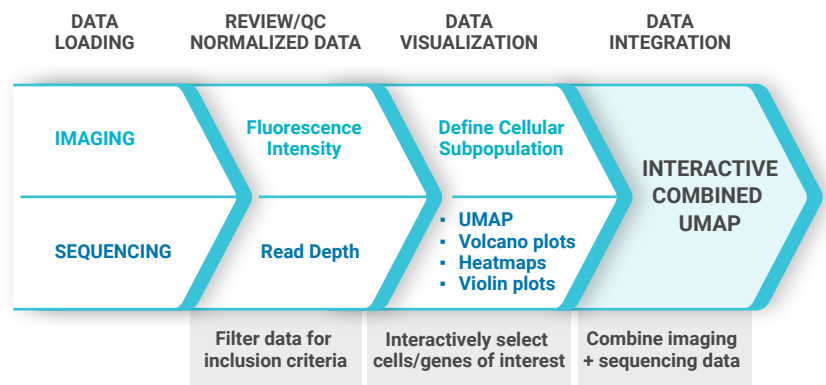
**scRNA-seq:** 3'end RNA-seq – standard 2x100 short-read sequencing, hybrid-capture compatible for targeted RNA-seq

**Isoform analysis:** compatible with ONT and PacBio sequencing

## Analysis

**Data processing:** Imaging and sequencing data processed at single-well resolution

**Visualization:** Browser-based FLXplorer analysis platform for visualization and integration of both imaging and sequencing data at single-cell level (filtering, sequencing and/or fluorescence-based clustering, differential gene expression, per well sequencing and imaging mapping)



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