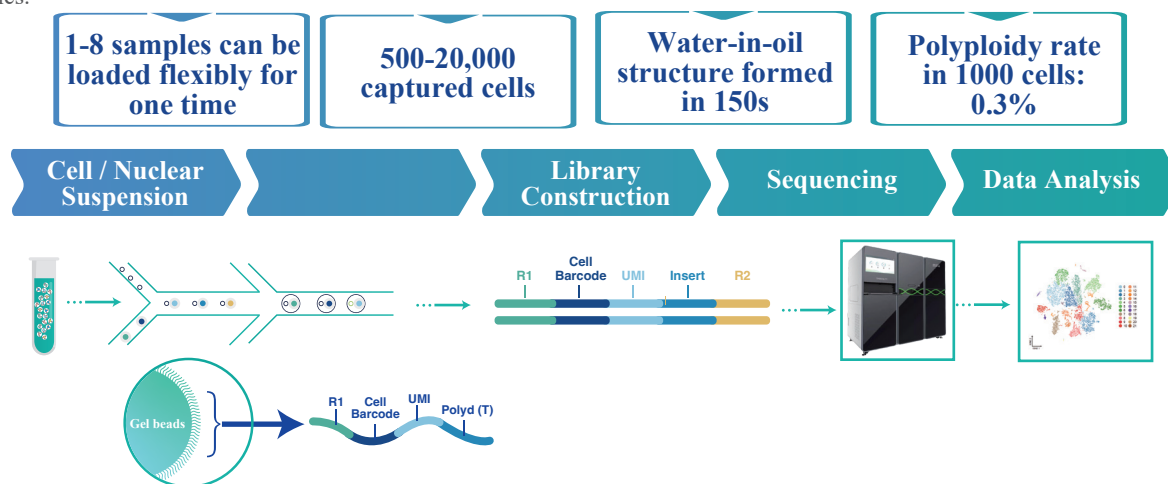


sCelluFlu-A[®] Single-cell Transcriptome Solution



● Introduction to Products

sCelluFlu-A[®] CapitalBiotech High-Throughput Single-Cell Transcriptome Solution is an industry-leading, stable-performance, flexible and efficient high-quality droplet microfluidic high-throughput single-cell transcriptome solution. Using the compact and simple microfluidic separation device, the water-in-oil structure containing probe gel beads and single cells can be formed quickly in 150s. Next, mRNA released by the cell lysis is captured by probe gel beads, reverse transcribed to form cDNA, and processed for recovery and library construction, obtaining gene expression data for 500-20000 cells. This solution provides the efficient, high-quality and accurate research data for fields such as tumor research, immunology, neuroscience, developmental biology, drug development and molecular diagnostics.



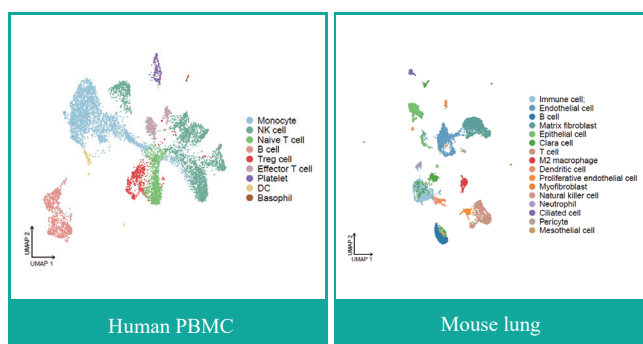
sCelluFlu-A[®] Single-cell Transcriptome Sequencing Workflow

● Platform Advantages

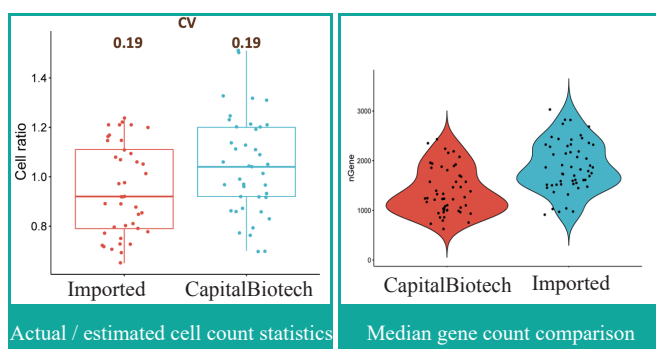
High Quality Stable Cell Capture Capture rate: 50% Median gene count: above 1,000 High repeatability and minimized coefficient of variation	High Speed High-speed Water-in-oil Forming, and Less Stress Water-in-oil time: 150s At least a two-fold reduction in mitochondrial content Capable of capturing fragile cells like neutrophils	High Throughput High Throughput, Low Polyploidy Rate Sample can be loaded onto machine individually 8 channels x 20,000 cells multi-cell rate 3% / 10,000 cells	High Values Super-high Cost Effectiveness Superior performance comparable to high cost products Significantly reduced clinical cohort costs
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● Data Display

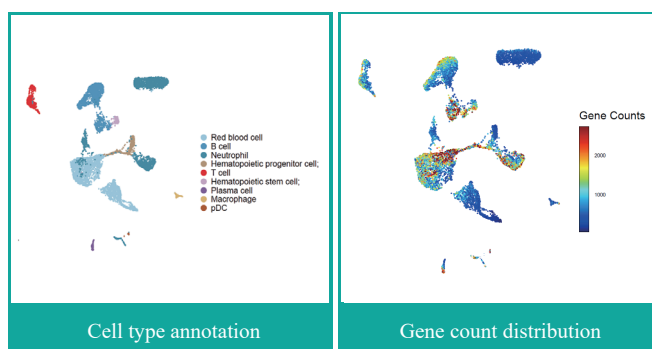
Species	Tissue	Data Volume / G	Cell count	Median gene count	Saturation percentage (%)
Mouse	Tumors	141	12003	1235	80.52
Human	293T	120	8435	3941	49.60
Human	PBMC	120	7701	1679	84.83
Human	Fetal stomach	109	10491	1395	75.07
Human	Ovary	120	11109	1924	72.33
Human	Polyps	141	8273	1470	75.89
Human	J. Dermatol.	180	13334	1334	79.73
Human	Gingiva	111	13163	1169	77.25
Human	Heart valve nuclei extraction	180	18045	1044	85.97
Mouse	Brain nuclei extraction	120	10119	2352	53.19
Mouse	Brain nuclei extraction	120	8645	2432	51.10



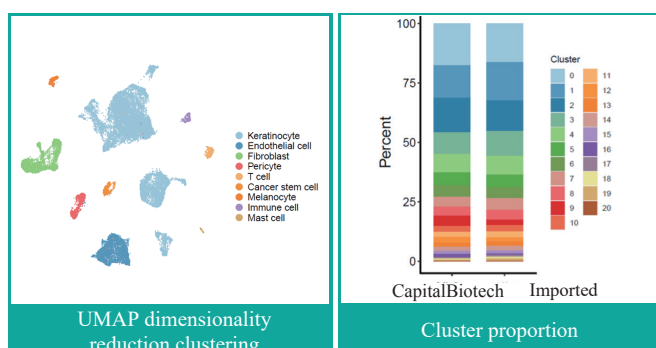
1. **High stability** with an average cell capture count above 10,000. The ratio of actual cell capture count to expected counts ranges from 50%-150%, with the median gene count for routine sample types stabilized in 1,000-2,000.



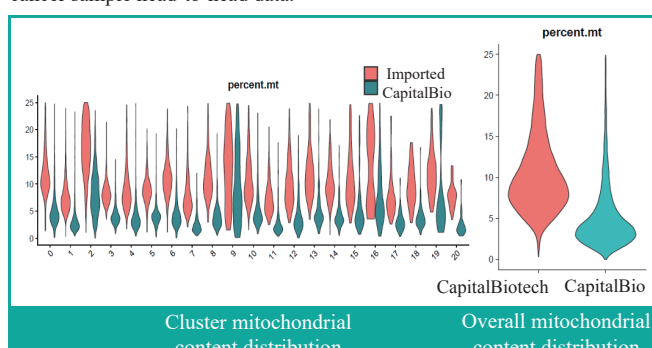
2. **It is capable of capturing fragile or low-abundance cell types**, such as a large quantity of nucleated red blood cells and neutrophils at various development stages in human bone marrow samples.



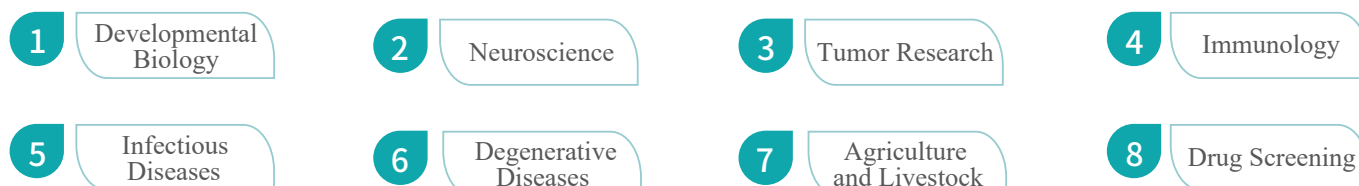
3. **Comprehensive cell type identification**, the high consistency is shown in cell types after combining human skin sample head-to-head data.



4. **The mitochondrial content is reduced**, with a significantly lower mitochondrial proportion across cell clusters in combined human liver cancer sample head-to-head data.



● Data Display



CapitalBiotech

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