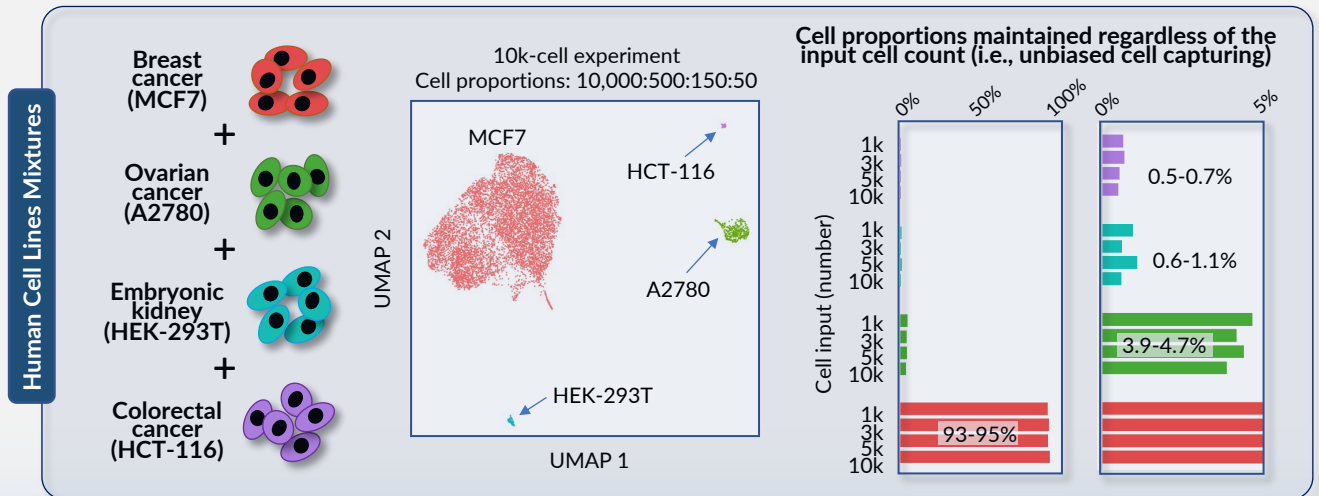
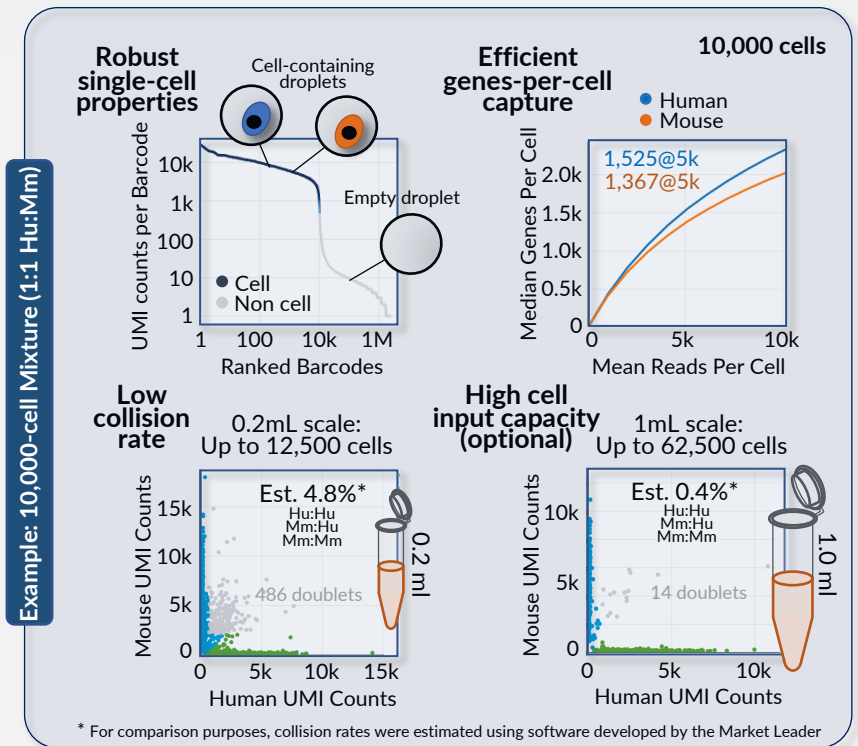
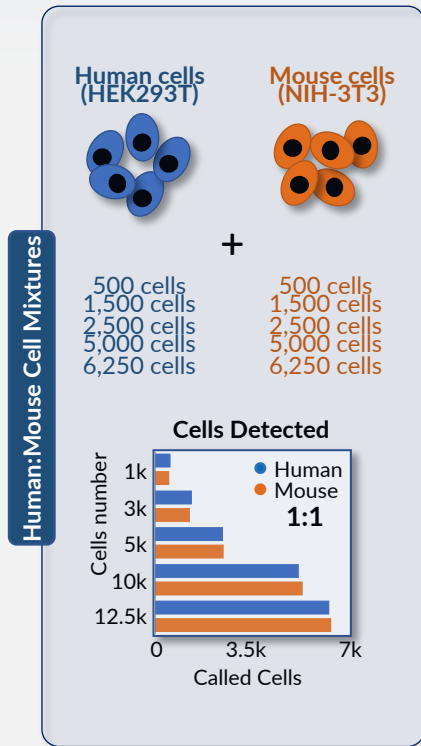




Universalizing Single Cell Technology.

No Instrument. No Microfluidics. Just an E-pipette.
No Labor-intensive Combinatorial Schemes.
Thousands of Single Cells.
Bead-free Barcoding.
One Microtube.

Validation of Single-cell Properties and Conservation of Cell Proportions





Universalizing Single Cell Technology.

No Instrument. No Microfluidics. Just an E-pipette.

No Labor-intensive Combinatorial Schemes.

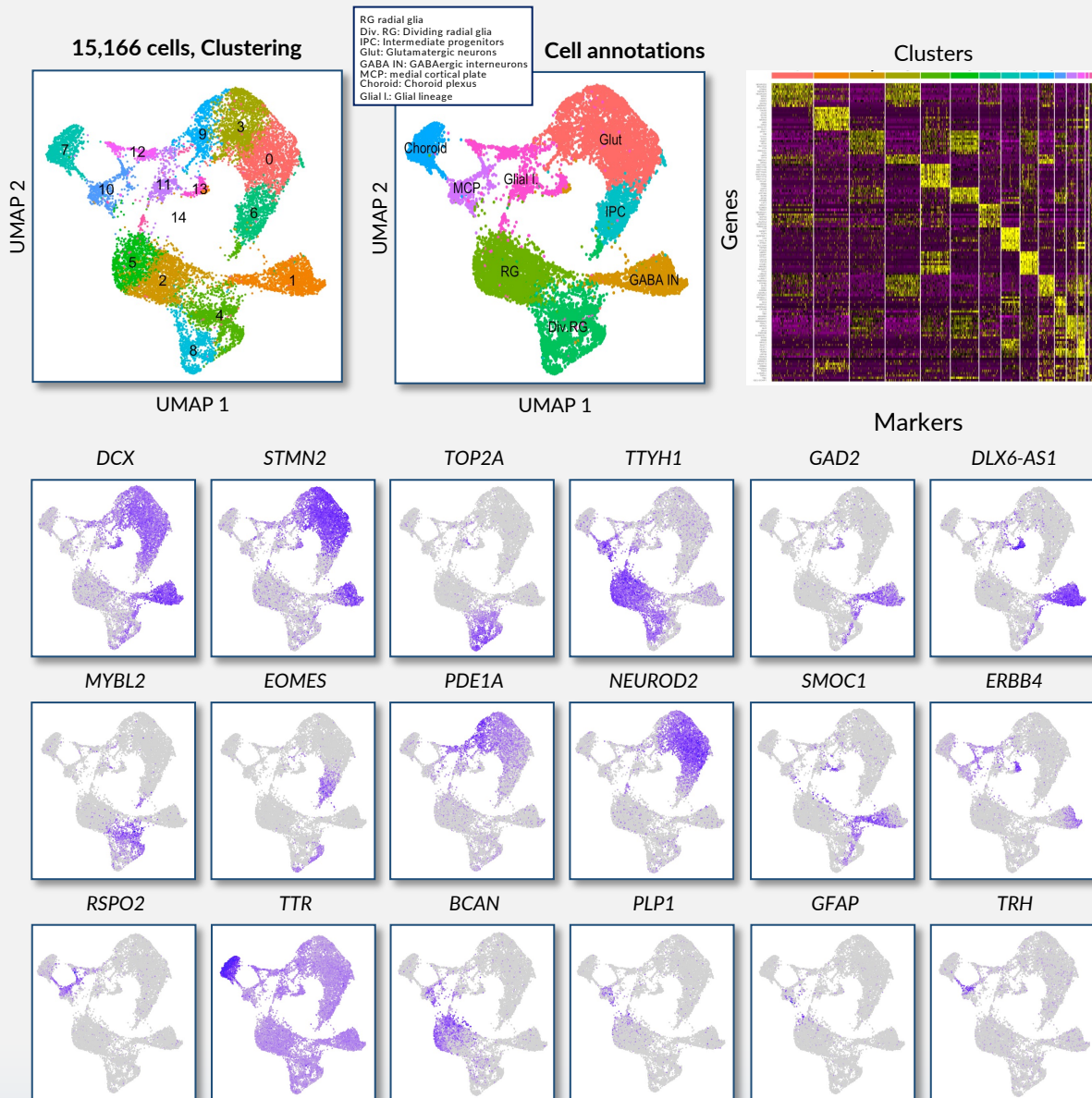
Thousands of Single Cells.

Bead-free Barcoding.

One Microtube.

Capturing Rich Cell Diversity in Cell Heterogenous Samples

6-month Brain Organoids (Shallow Sequencing, 10k reads/cell)





UNIVERSAL
SEQUENCING

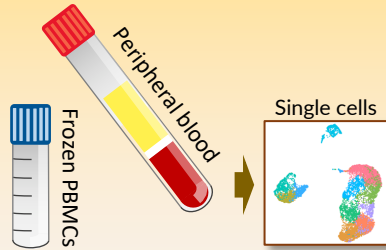
PBMC AmpliDrop™ 3' scRNA-seq Service*

Universalizing Single Cell Technology.

Good data quality.

Fast lead time.

From 1,000- to 62,500-cell libraries.
Early Access Discounts available**



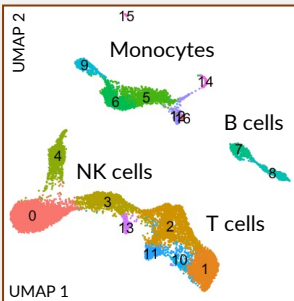
* For research use only
** December 2022 offer

Blood -> PBMC -> 9 libraries (testing: fresh/frozen, operator, blood draw, library prep): 15,151 cells (total)

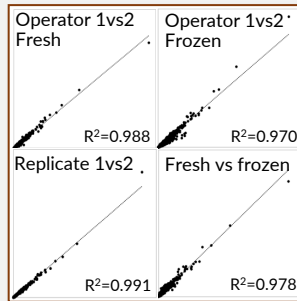
3,014 cells	1,603 cells	1,722 cells	1,185 cells	1,925 cells	1,960 cells	1,775 cells	869 cells	1,098 cells
Prep 1	Prep 2	Prep 3	Prep 4	Prep 5	Prep 6	Prep 7	Prep 8	Prep 9
Fresh				Frozen			Fresh	Frozen
Operator 1							Operator 2	
Blood draw 1	Blood draw 2		Blood draw 1	Blood draw 2		Blood draw 1		



Clustering



Pseudo-bulk expression correlations



Cell proportions

Peripheral blood (healthy donor 1) PBMC -> AmpliDrop™ 3' scRNA-seq	Major cell types:		
	T	NK	Mono B
Fresh, operator 1, draw day 1, PBMC isolation 1	High	Low	Low
Frozen, operator 1, draw day 1, PBMC isolation 1	High	Low	Low
Fresh, operator 2, draw day 1, PBMC isolation 1	High	Low	Low
Frozen, operator 2, draw day 1, PBMC isolation 1	High	Low	Low
Fresh, draw day 2, PBMC isolation 2, library 1	High	Low	Low
Fresh, draw day 2, PBMC isolation 2, library 2	High	Low	Low
Fresh, draw day 2, PBMC isolation 2, library 3	High	Low	Low
Frozen, draw day 2, PBMC isolation 2, library 1	High	Low	Low
Frozen, draw day 2, PBMC isolation 2, library 2	High	Low	Low

Service: 3' scRNA-seq

- PBMC isolation (optional)
- Single-cell library construction
- Library sequencing
- Data processing: cell calling, expression matrix
- Data analysis: cell annotations/proportions (optional)

Samples accepted for 3' scRNA-seq analysis:

- PBMCs (fresh or cryopreserved): 1 M cells per sample
- Peripheral blood (EDTA-treated collection tubes*): 1-5 mL

* Free tests available with other collection tubes
Lymphoprep™ option, SepMate™ option

Other options:

- Bone marrow mononuclear cells (BMMNC)
- RBC-depleted blood (free tests available)

Lead time:

1-2 weeks from date of sample arrival at UST

Deliverables:

- Fastq files
- QC/single-cell report (common metrics)
- Cell matrix (raw or filtered) in .csv or .h5 formats
- Further data processing, figures for paper (optional)

Contact us to learn more about the Early Access Program or schedule your service:

service@universalsequencing.com

Universal Sequencing Technology Corporation
6155 Corte Del Cedro, Carlsbad, CA 92011
service@universalsequencing.com