

## Automated Tissue Dissociation Systems The Singulator™ 100 and 200

### Solid Tissue Dissociation. Automated. Flexible.

The bench-top Singulator System and its single-use cartridges enable reproducible, rapid and hands-off tissue dissociations into single cell or nuclei suspensions. Researchers can now easily obtain suspensions of nuclei or high-viability cells for a wide range of single cell analyses, from as little as 2 mg of solid tissues. Use pre-loaded protocols or create your own. Use specially formulated reagents from S2 Genomics, or use your own.



Single-Cell Cartridge



Nuclei Cartridge



Intuitive Touch-Screen Interface

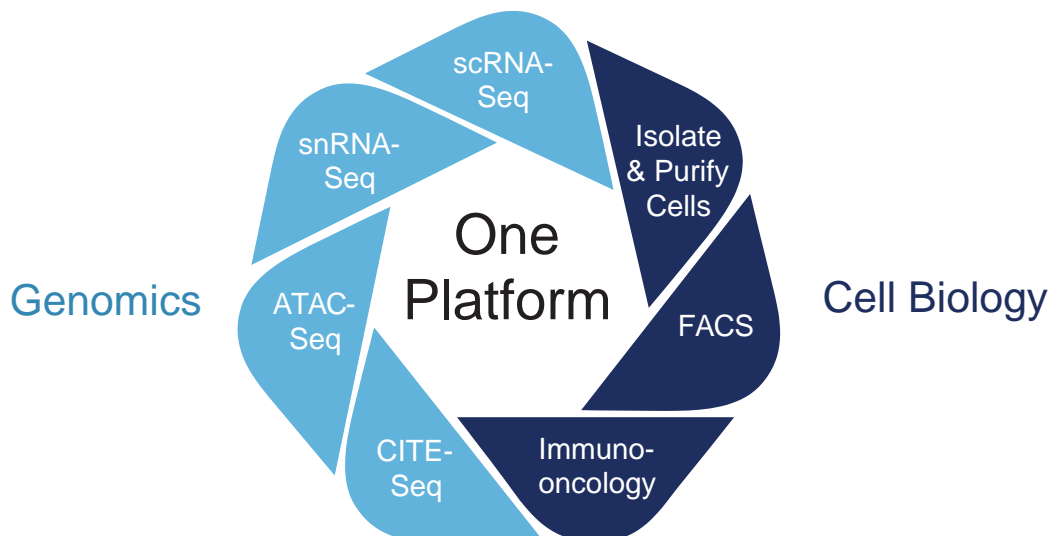
Two Sample Capacity

Easy Cartridge Loading

**Two versions available.** The “Singulator 100” is the smaller version for lower throughput with one working station, one cartridge and one assay position, whereas the “Singulator 200” has two of each.

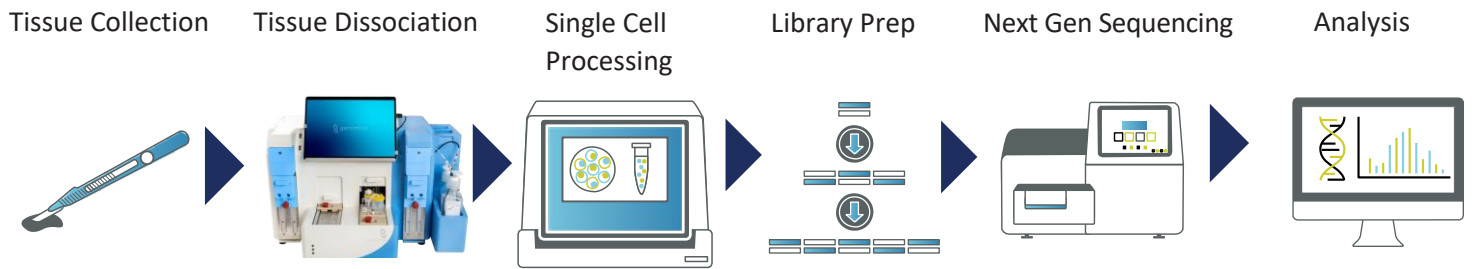
### Minimal Variability. Multiple Applications

Ideal for genomics, cell biology and other ‘omics applications, including scRNA-Seq, snRNA-Seq, ATAC-Seq, CITE-Seq, FACS, and immuno-oncology. S2 Genomics provides a selection of pre-set protocols and pre-formulated reagents for cell isolations from an expanding set of mouse, rat, and human tissues, including tumors. See a selection of the wide range of tissues and organisms demonstrated on the Singulator System for nuclei isolation at <https://s2genomics.com/tissue-types-demonstrated-on-singulator-platform/>.



# Say Goodbye To Manual Tissue Dissociation

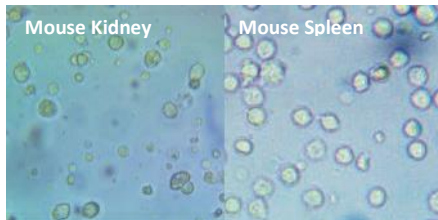
Tissue to single cells or nuclei in minutes.



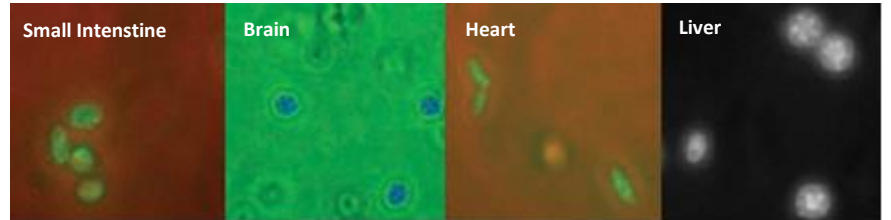
## Fast. High Yield. High Viability.

Cells in 20-60 minutes

Nuclei in 6-10 minutes



Bright-field images of cells from mouse kidney and spleen tissues.



Merged DAPI-stained and bright-field images of small intestine, brain and heart tissue nuclei; DAPI stained liver nuclei. Courtesy of Dr. Minoda, Laboratory for Cellular Epigenomics, RIKEN Yokohama, Japan.

	Tissue Type	Process Time	Yield*	Viability*
Cells	Fresh, FFPE**	20-60 minutes	14,000 to >600,000/mg	80-95%
Nuclei	Fresh, Frozen, OCT, FFPE**	6-10 minutes	3,000 to >1,000,000/mg	N/A

\*Varies depending on tissue types \*\*Dissociation of deparaffinized, rehydrated FFPE slices.

## Intuitive Software. Customizable Protocols.

Choose from a selection of pre-set protocols and pre-formulated reagents. Create your own protocols with customizable parameters, including mincing, enzyme incubation time, temperature, mixing and mechanical disruption profiles. Optionally, use your own reagents.

## Incubation at 37 °C, room temperature, or 6 °C.

Cold dissociation minimizes the expression of stress-related genes during cell isolations and helps preserve RNA quality when isolating nuclei.