

The image shows a white and blue laboratory instrument with a screen on top. The screen displays the 'genomics' logo, which consists of a stylized 'S' symbol followed by the word 'genomics' in a lowercase sans-serif font. The instrument has a red button on the front panel and a blue curved section on the left side. The background is a solid blue gradient.

genomics

singulator 100.

SET. PRESS. WALK AWAY.



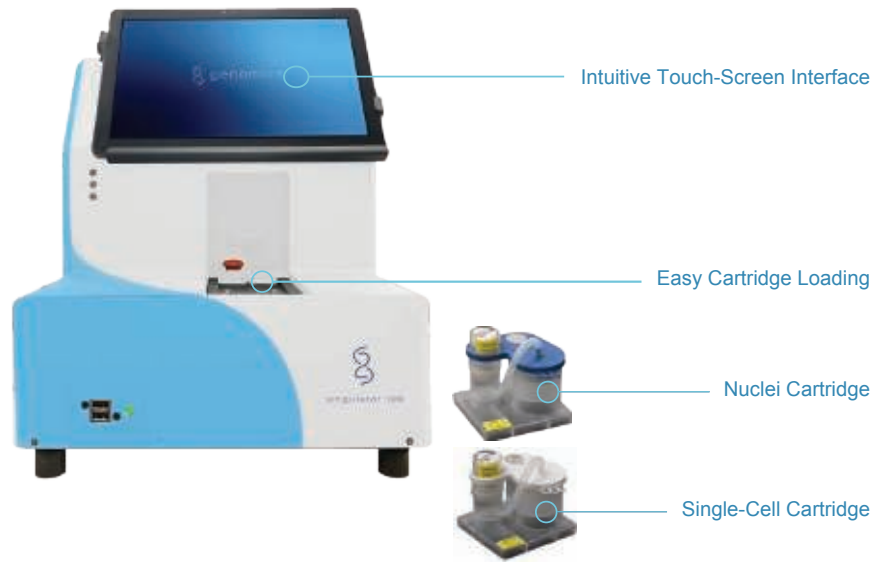
singulator 100

The Singulator™ 100 System



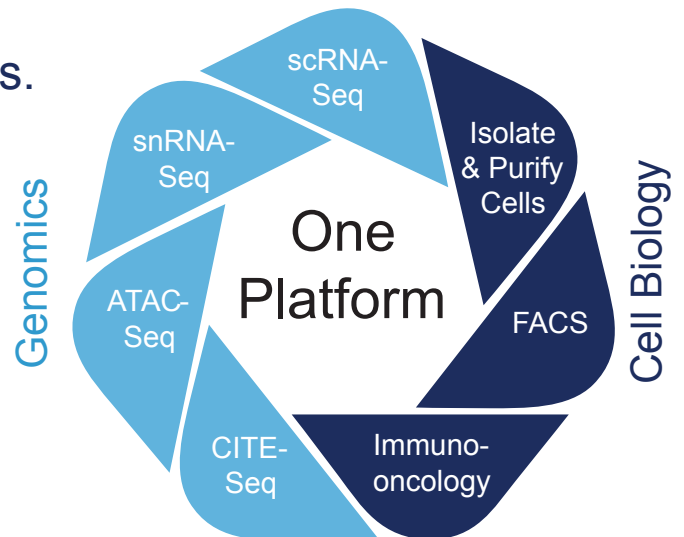
Solid Tissue Dissociation. Automated.

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.



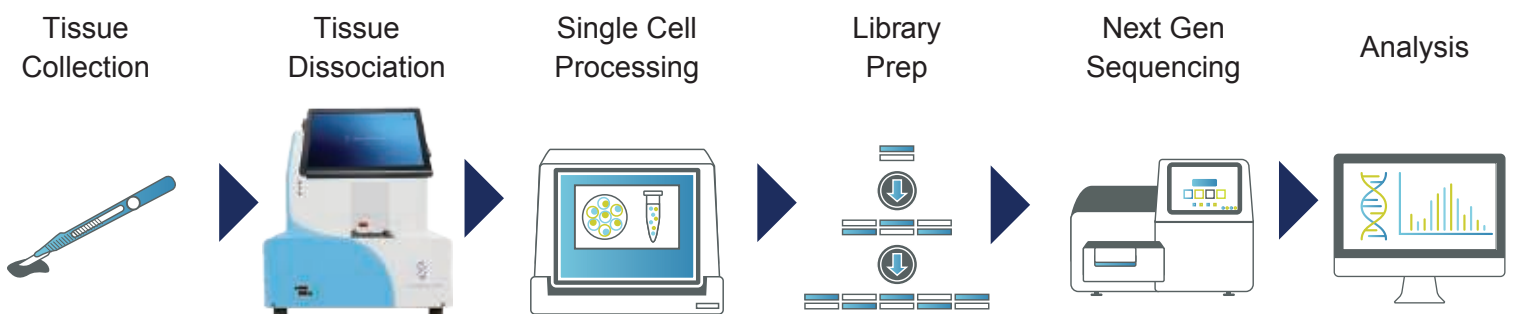
Minimal Variability. Multiple Applications.

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 the wide range of tissues and organisms demonstrated on the Singulator 100 System for nuclei isolation at the end of this brochure.



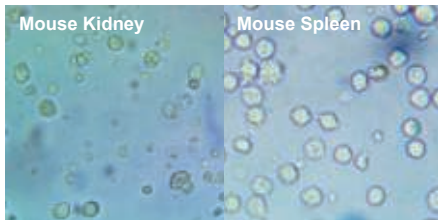
Say Goodbye To Manual Tissue Dissociation.

Tissue to single cells or nuclei in minutes.



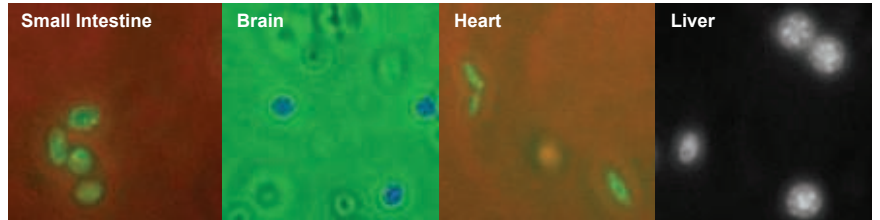
Fast. High Yield. High Viability.

Cells in 20-60 minutes

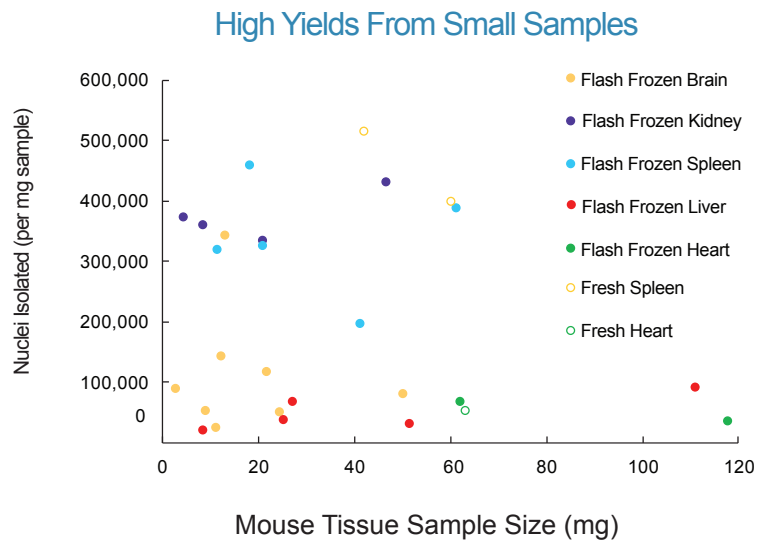
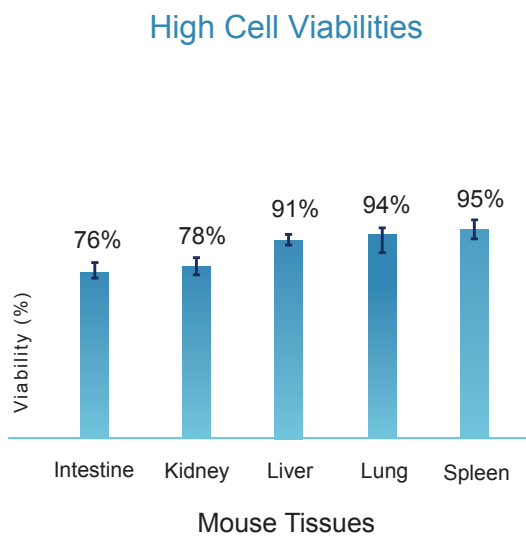
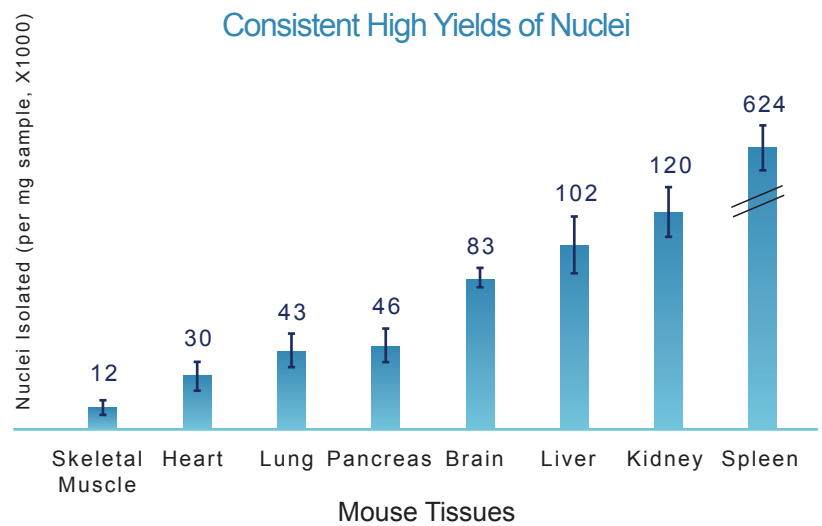
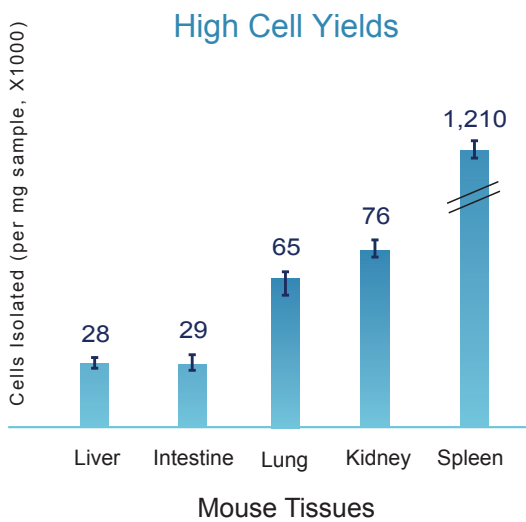


Bright-field images of mouse kidney and spleen tissue cells.

Nuclei in 6-10 minutes



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	20-60 minutes	10,000 to >500,000/mg	70-95%
Nuclei	6-10 minutes	10,000 to >600,000/mg	N/A

*Varies depending on tissue types

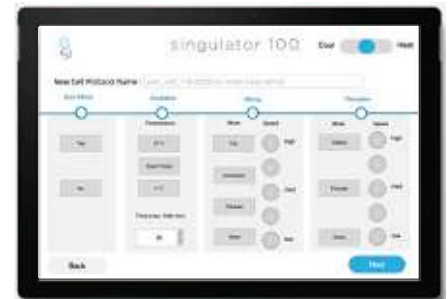
Intuitive Software. Customizable Protocols.

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 profile. Optionally, use your own reagents.

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

Cold dissociation minimizes the expression of stress-related genes in cells and helps preserve RNA quality in nuclei.

- 1 Select from lists of Standard, Favorites, Recently Run protocols, or create your own protocol with customizable parameters.



- 2 Step-by-step instructions and videos guide you through the system operation.



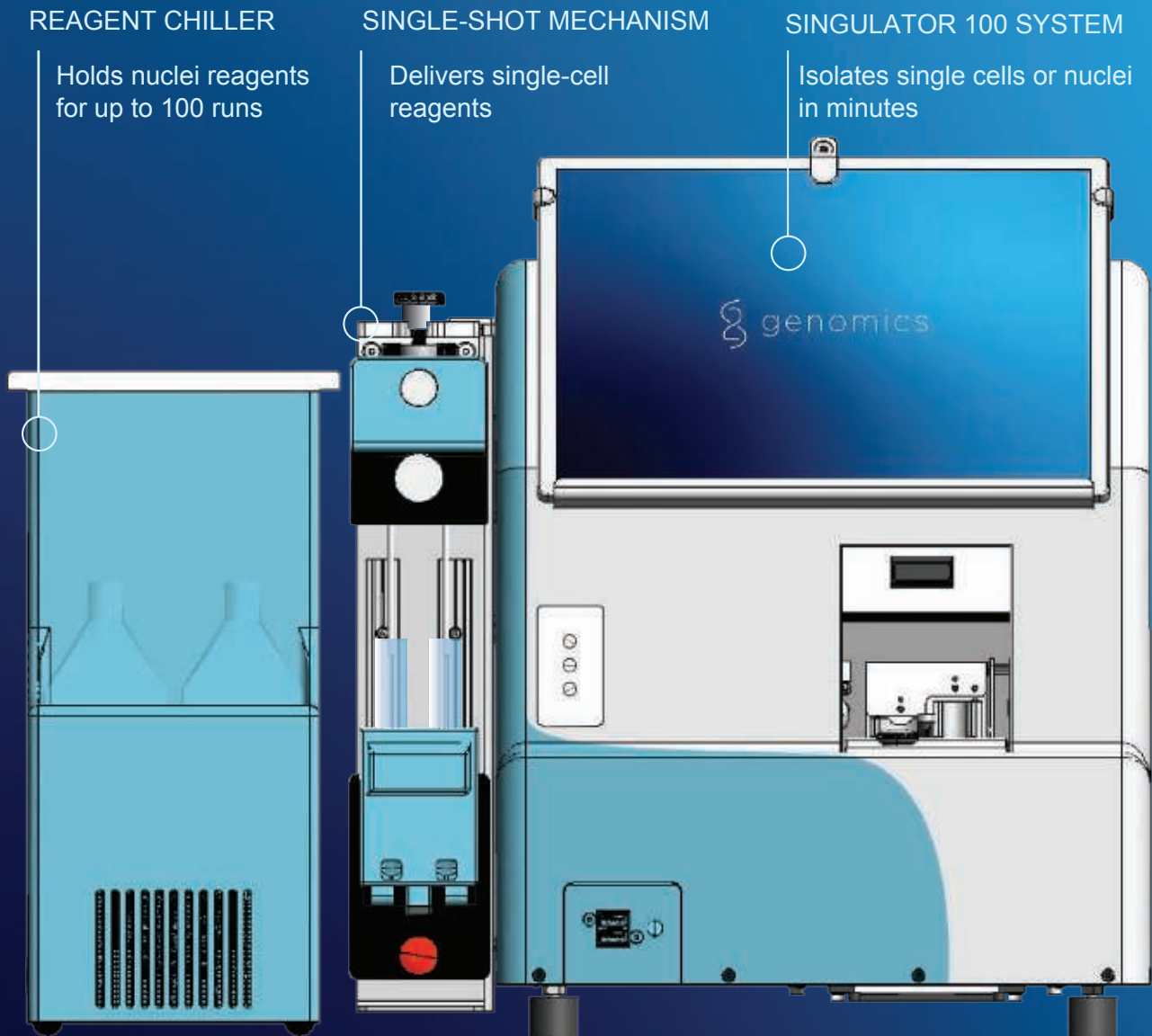
- 3 Enter optional user notes and press RUN.



- 4 The internal camera and progress bar allow you to monitor tissue dissociation in real time.



singulator 100™



High Yield & Viability



Typical Yield:

- 10,000 to >500,000 cells/mg*
- 70 - 95% viability
- 20,000 to >600,000 nuclei/mg*

*tissue dependent

Reproducible Results



- Consistent results, from researcher to researcher and lab to lab
- Improve success rates for precious samples
- Minimize transcriptome changes
- Use your reagents for your specific tissues

Fast Processing



- Nuclei in 6-10 minutes
- Single cells in 20-60 minutes

Simple Setup & Walk-Away Operation



- Load tissue and press RUN in < 1 minute
- Intuitive touch-screen interface
- Minimal operator training

Tissues Demonstrated on the Singulator™ 100 for Nuclei Isolation

Human

- *Aorta
- *Brain (Adult, Infant, Fetal)
- *Breast Tumor
- *Cerebral Organoids
- *Colon (Normal, Polyp & Tumor)
- *Heart (Adult & Fetal)
- *Hemangioma
- *Intestine (Fetal)
- *Lung (Fetal)
- *Muscle (TA & SA)
- *Prostate (Normal & Tumor)
- *Retinal organoids (WT & Gene Knockout)
- *Spleen (Fetal)
- *Thymus (Fetal)
- *Vascular Abnormality (Arterial)
- *Vascular Abnormality (Lymphatic)

Mouse

- Brain
- Colon (Normal & PDX Tumor)
- Heart
- Intestine
- *Kidney (Normal & Pre-cystic)
- Liver
- Lung
- Lymph
- Muscle
- Pancreatic PDX Tumor
- *Spinal Cord
- Spleen

Rat

- Brain
- Kidney
- Liver
- Lung
- Spleen

Spiny Mouse (*A. cahirinus*)

- *Kidney

Honeybee (*A. mellifera*)

- *Thorax

Arabidopsis

- *Whole Seedling
- *Root Tip

*Customer-Lab Demonstrated

For the latest list of tissues demonstrated on the Singulator 100, visit:
www.S2Genomics.com/Tissues

SINGULATOR SYSTEM PRODUCTS

CATALOG NUMBER

Singulator™ 100 System

100-067-764

Singulator™ Nuclei Isolation Kit (25-sample pack)

100-060-817

Singulator™ Cell Isolation Kit (25-sample pack)

100-063-841

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