

The logo for genomics, featuring a stylized 'g' symbol followed by the word 'genomics' in a lowercase, sans-serif font.

singulator 100™

SET. PRESS. WALK AWAY.



singulator 100

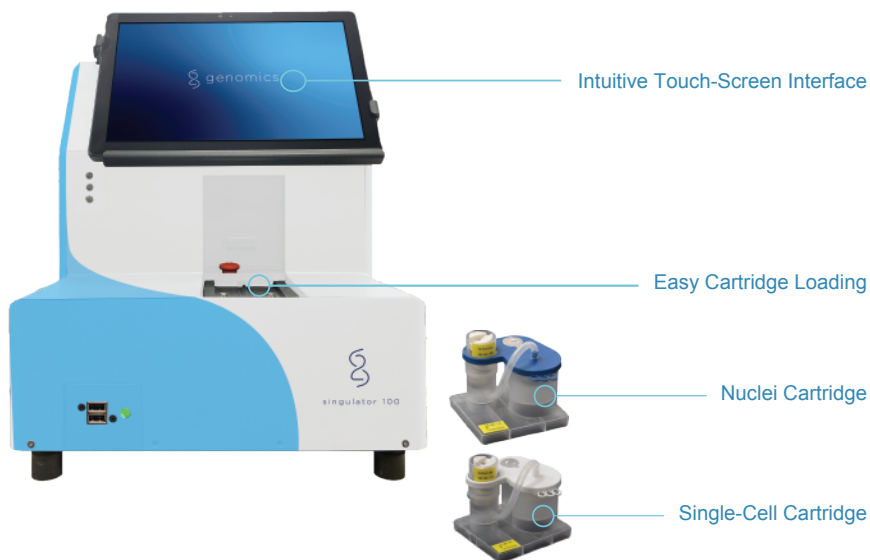


PharmiGENE  
世基生物醫學股份有限公司

# The Singulator™ 100 System

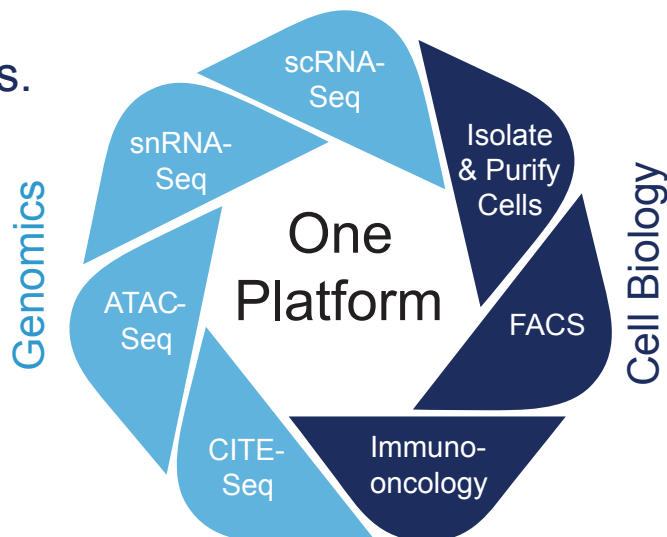
## Solid Tissue Dissociation. Automated.

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.



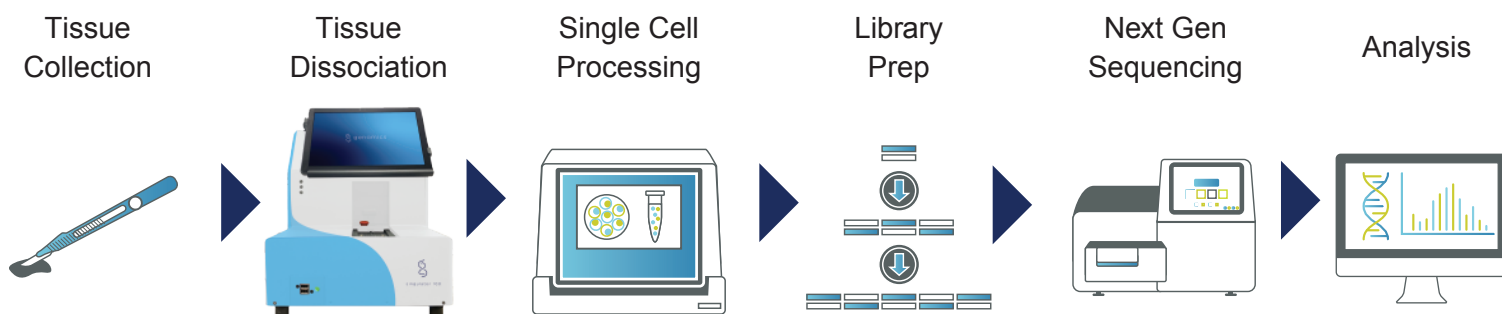
## Minimal Variability. Multiple Applications.

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.



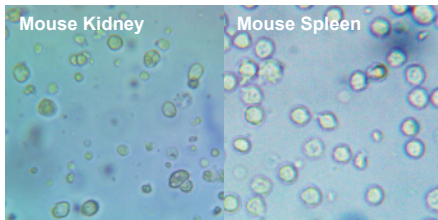
## Say Goodbye To Manual Tissue Dissociation.

Tissue to single cells or nuclei in minutes.



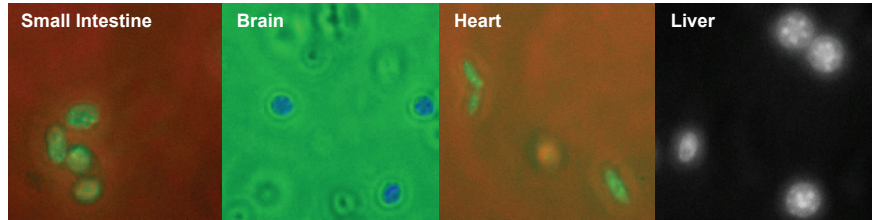
# Fast. High Yield. High Viability.

## Cells in 20-60 minutes

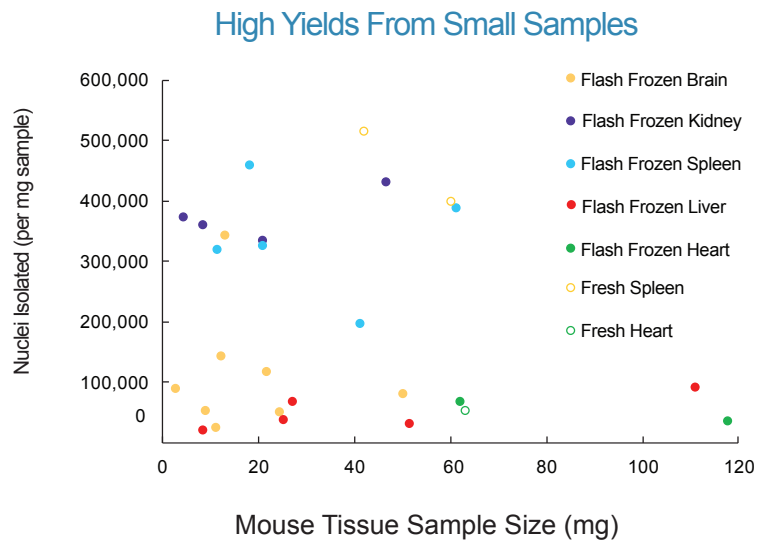
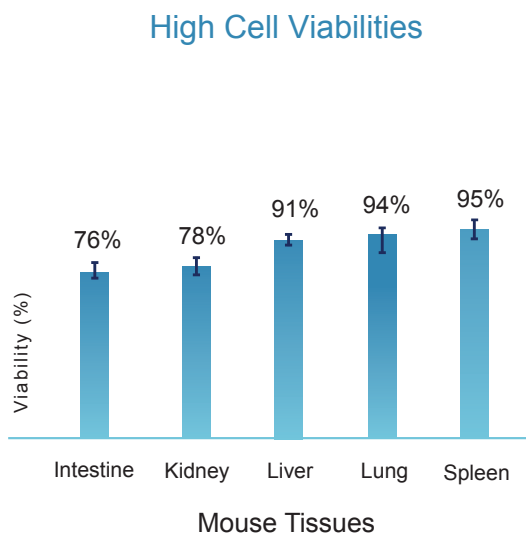
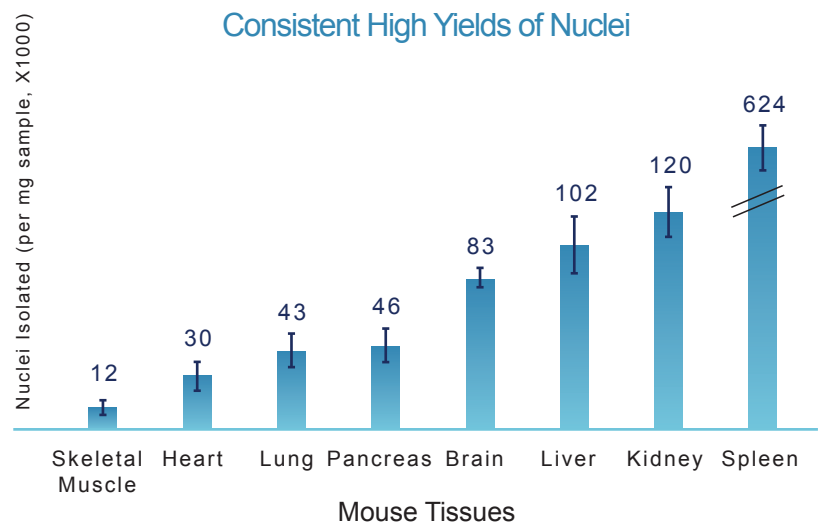
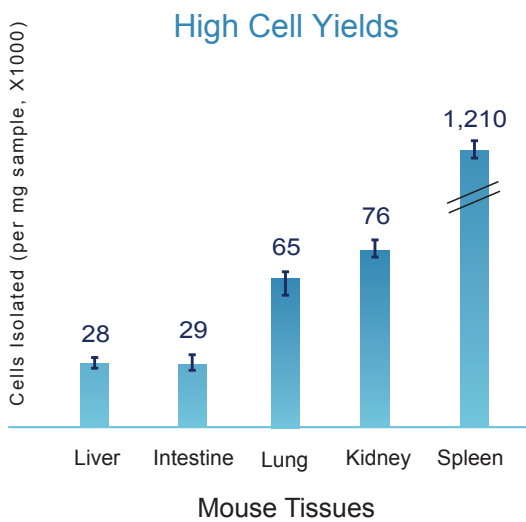


Bright-field images of mouse kidney and spleen tissue cells.

## Nuclei in 7-12 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	7-12 minutes	10,000 to >600,000/mg	N/A

\*Varies depending on tissue types

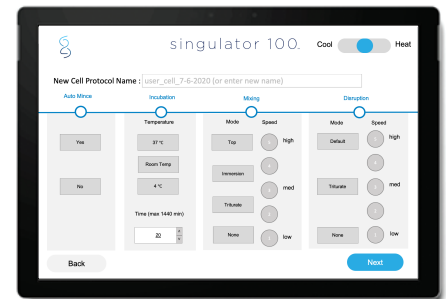
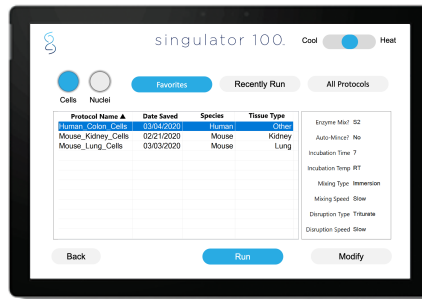
# Intuitive Software. Customizable Protocols.

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.

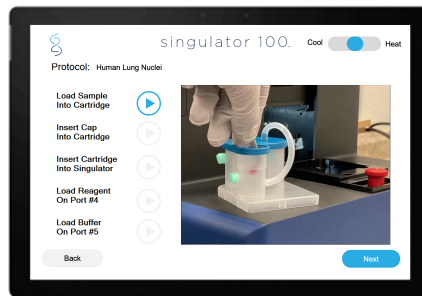
Incubation at 37 °C, room temperature, or 6 °C.

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

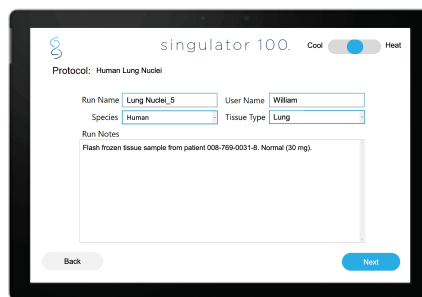
- 1 Select from lists of Standard, Favorites, Recently Run protocols, or create your own protocol with customizable parameters.



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



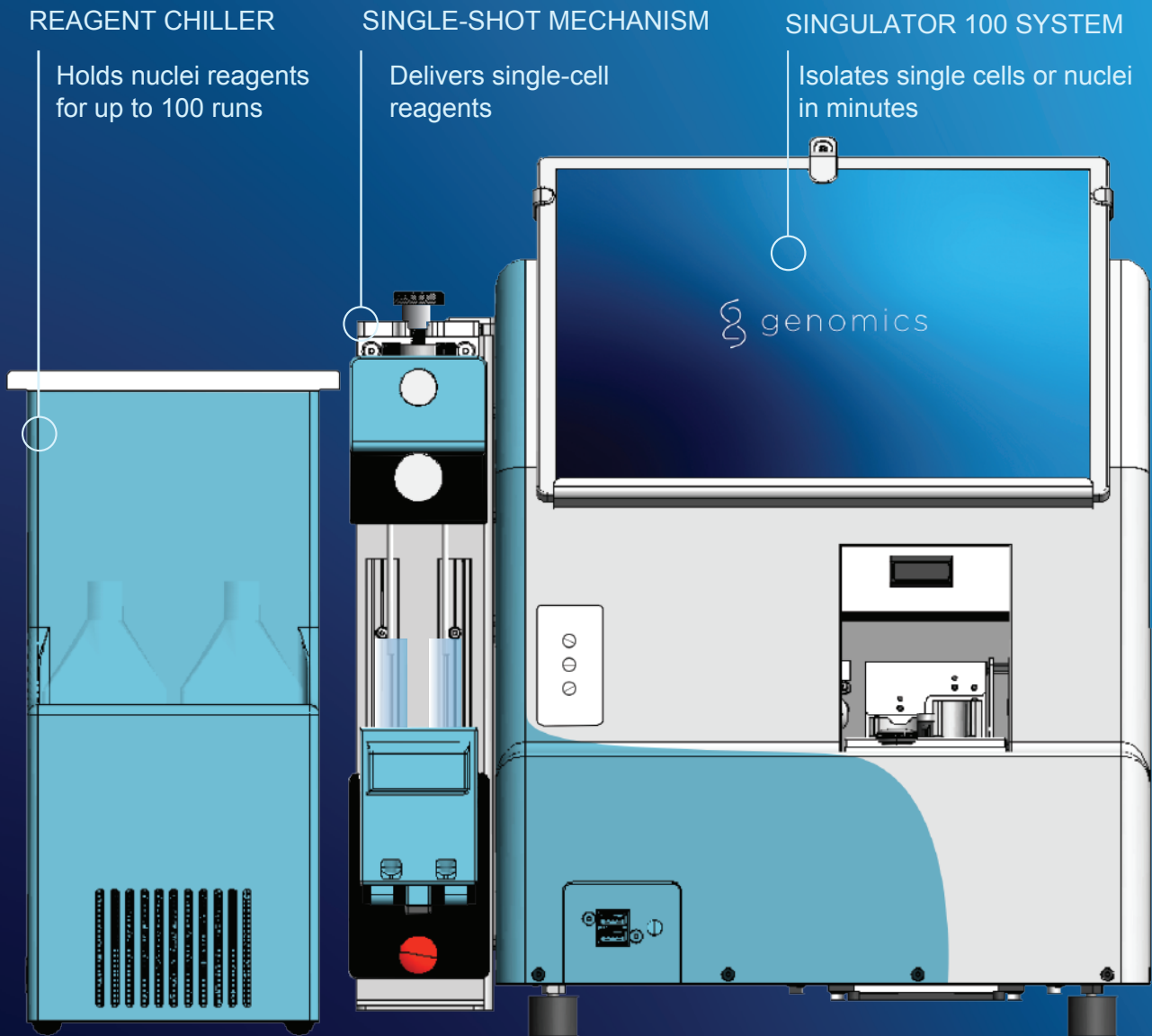
- 3 Enter optional user notes and press RUN.



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



# singulator 100™



## REAGENT CHILLER

Holds nuclei reagents for up to 100 runs

## SINGLE-SHOT MECHANISM

Delivers single-cell reagents

## SINGULATOR 100 SYSTEM

Isolates single cells or nuclei in minutes

## 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 7-12 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](http://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

S2 GENOMICS

6712 PRESTON AVE, STE D LIVERMORE, CA 94551

S2GENOMICS.COM

INQUIRIES@S2GENOMICS.COM

聯絡世基

Tel: +886-2-2798-5885  
Fax: +886-2-2798-6300  
service@pharmigene.com



For research use only. Not for use in diagnostic procedures. S2 Genomics makes no representation or warranty as to the usefulness, completeness, or accuracy of the information contained in this brochure. The products, services, and specifications set forth in this brochure are subject to change without notice and S2 Genomics disclaims any and all liability for such changes. The information contained herein is provided without warranties of any kind, either express or implied, and S2 Genomics disclaims any and all liability for typographical, printing, or production errors or changes affecting the products, services, and/or the specifications contained herein. It is the responsibility of the customer to thoroughly analyze all aspects of the customer's proposed application for the products and services. Singulator™ is a trademark of S2 Genomics.

Part No. 100-067-001 RevB

# NOTE



PharmiGENE