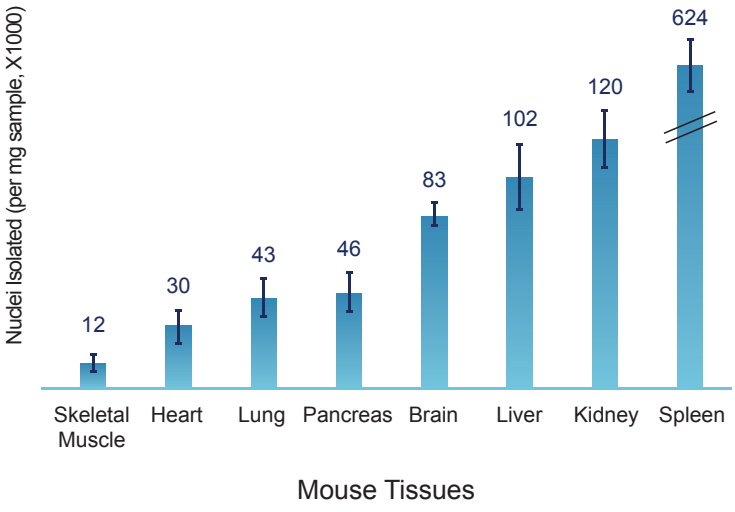
singulator 100™

SET. PRESS. WALK AWAY.

Genomic analysis of nuclei isolated directly from solid tissue may provide better cell-type representation than analysis of viable cells, and can give insights into the state of the cellular transcriptomes. **S2 Genomics' bench-top Singulator™ System and its single-use cartridges enable rapid, hands-off and reproducible tissue dissociations at low temperature into high-yield suspensions of nuclei.** You can choose from pre-set protocols and pre-formulated reagents for a wide range of tissues, or create protocols with customizable parameters and use your reagents for your specific tissues.

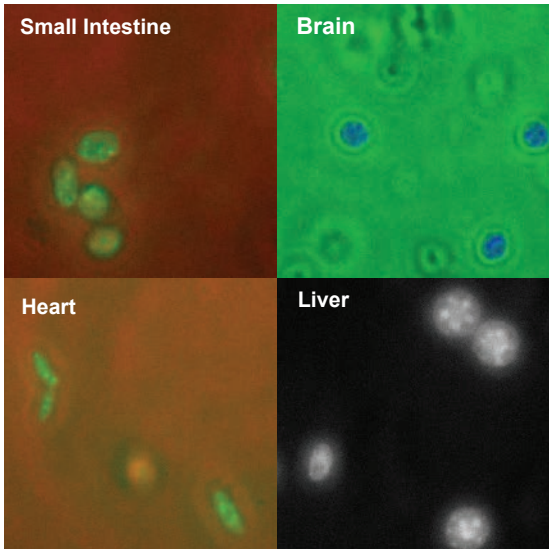
Automated Production of Nuclei From Solid Tissues

Consistent High Yields of Nuclei



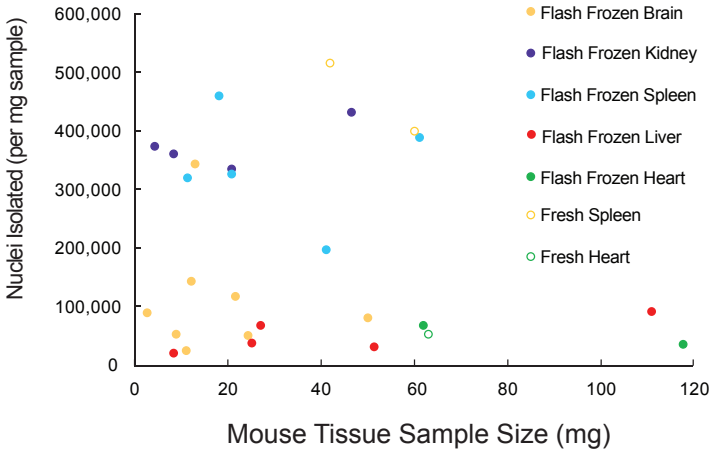
Images of Nuclei Extracted From Flash Frozen Mouse Tissues

Courtesy of Dr. Minoda, Laboratory for Cellular Epigenomics, RIKEN Yokohama, Japan.



Merged DAPI-stained and bright-field images of small intestine, brain and heart tissue nuclei; DAPI stained liver nuclei.

High Yields From Small Samples



KEY BENEFITS

- Reproducible results
- Walk-away operation
- Customizable protocols
- High yields: 10,000 to >600,000/mg, tissue dependent
- Process fresh, frozen and OCT tissues
- Improve success rates for precious samples
- Isolate nuclei in 7 minutes
- On-board reagents for up to 100 nuclei runs
- Perform low-temperature dissociations
- Minimal operator training
- Intuitive touch-screen interface

The Singulator™ 100 System

Solid Tissue Dissociation. Automated.

Choose from a selection of automated pre-set protocols and pre-formulated reagents to produce single-cell or nuclei suspensions. Create your own protocol with customizable parameters, including mincing, enzyme incubation time, temperature, mixing and mechanical disruption profile or use your reagents for your specific tissues.

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

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