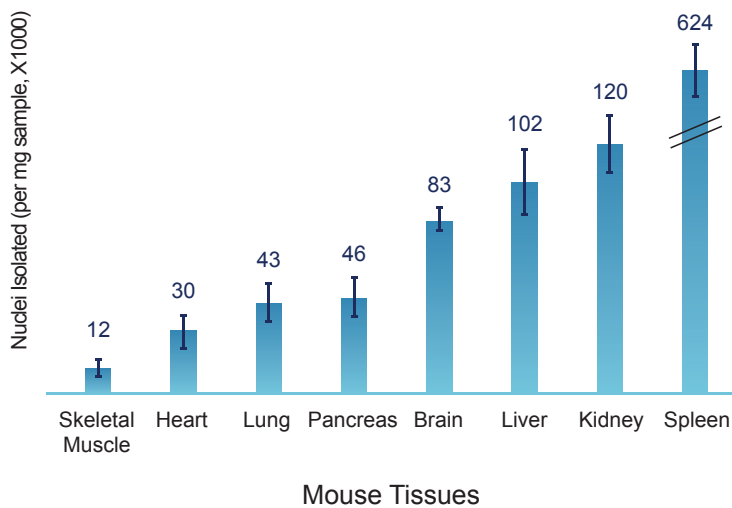




Genomic analysis of nuclei isolated directly from solid tissue may provide better cell-type representation than analysis of viable cells, and can give insights into the state of the cellular transcriptomes. **S2 Genomics' bench-top Singulator™ System and its single-use cartridges enable rapid, hands-off 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.

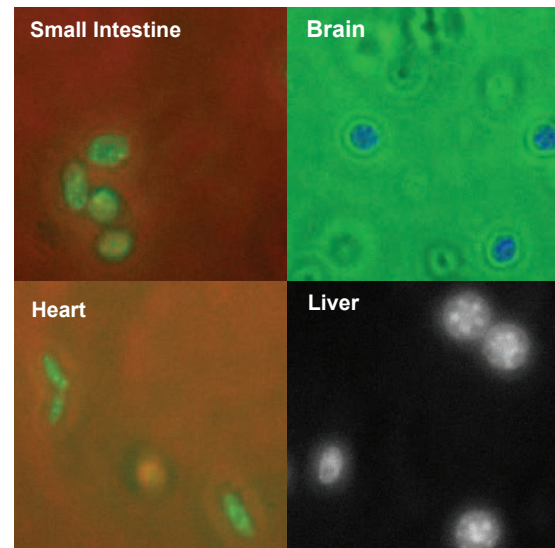
## Automated Production of Nuclei From Solid Tissues

### Consistent High Yields of Nuclei



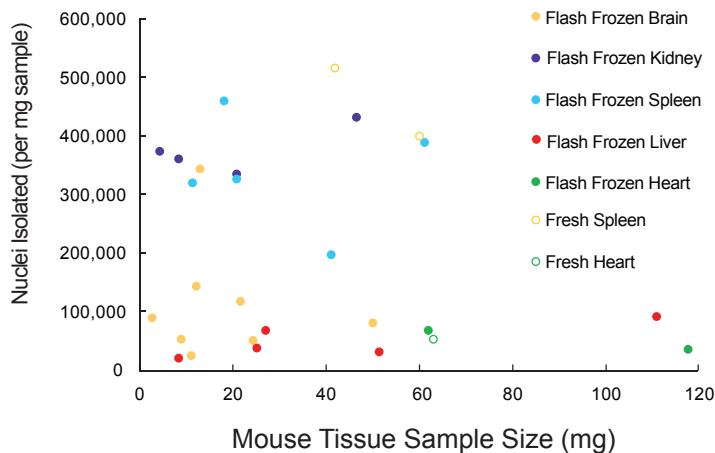
### Images of Nuclei Extracted From Flash Frozen Mouse Tissues

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)

*\*Customer-Lab Demonstrated*

### 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

For the latest list of tissues demonstrated on the Singulator 100, visit:

[www.S2Genomics.com/Tissues](http://www.S2Genomics.com/Tissues)

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