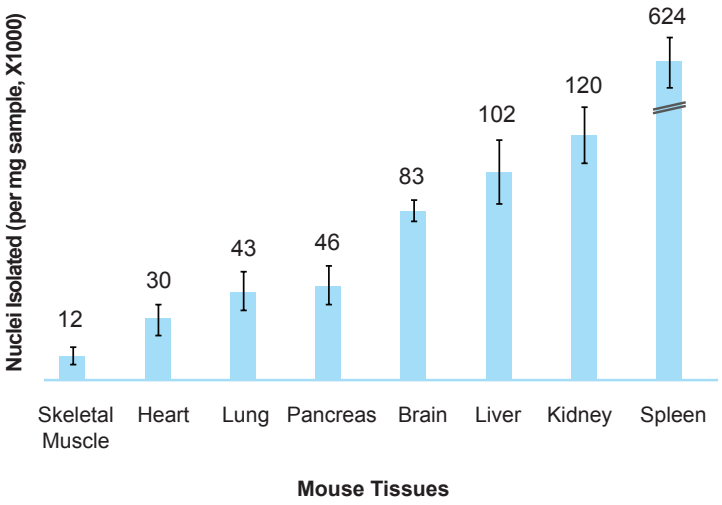
Tissue to nuclei in minutes.

Singulator™ system. 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 cartridge enable rapid, hands-off and reproducible tissue dissociations into high-yield suspensions of nuclei.** Researchers can choose from automated pre-set protocols and pre-formulated reagents for a wide range of tissues. Protocols can also be customized to use any reagents of choice for your tissues of interest.

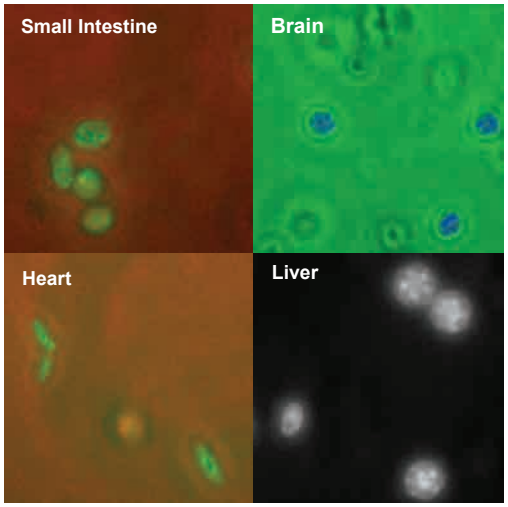
Automated production of nuclei from solid tissues

Consistent High Yield of Nuclei



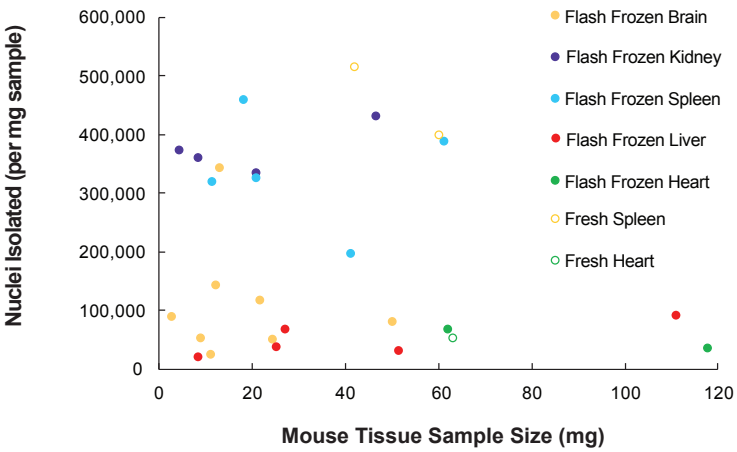
Images of Nuclei Extracted From Flash Frozen Mouse Tissues

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



Images of small intestine, brain and heart tissue nuclei are merged views of DAPI-stained and brightfield images. Liver sample image is of DAPI stained nuclei.

Amenable to Small Tissue Samples



KEY BENEFITS

- Ensure success with precious samples
- High yields: 10,000 to >600,000/mg, tissue dependent
- Reproducible results
- Processes fresh, frozen and OCT tissues
- Isolate nuclei in 7 minutes
- Walk-away operation
- Minimal operator training
- Intuitive touch-screen menu
- Customizable protocols

Tissues Demonstrated on The Singulator™ 100 for Nuclei Isolation

*Customer-Lab Demonstrated

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)

Arabidopsis

*Whole Seedling

Honeybee (*A. mellifera*)

*Thorax

Mouse

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

Rat

Brain
Kidney
Liver
Lung
Spleen

Spiny Mouse (*A. cahirinus*)

*Kidney

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

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