



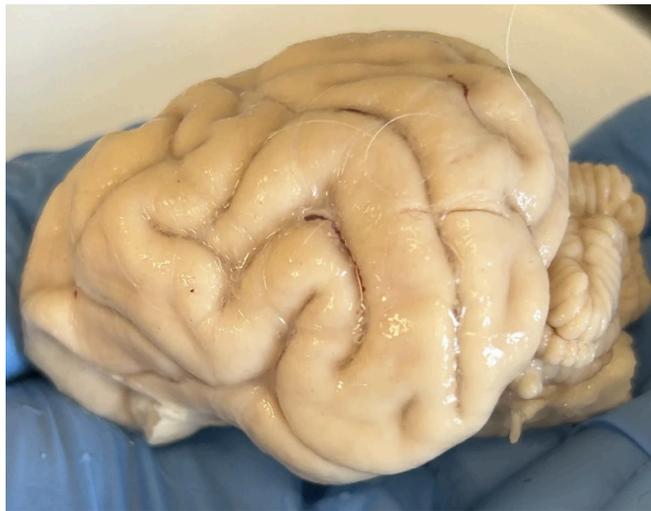
Sparks Brain Preservation Monthly Update - February 2026

New Registered Clients This Month (Sign Ups and/or Memberships): 5

Week of Feb 2nd

We practiced our brain preservation techniques on two body donors and one donated dog this week.

The dog was perfused via aortic cannulation. On gross examination, it appeared to be well perfused, with the majority of blood on the surface of the brain being cleared.

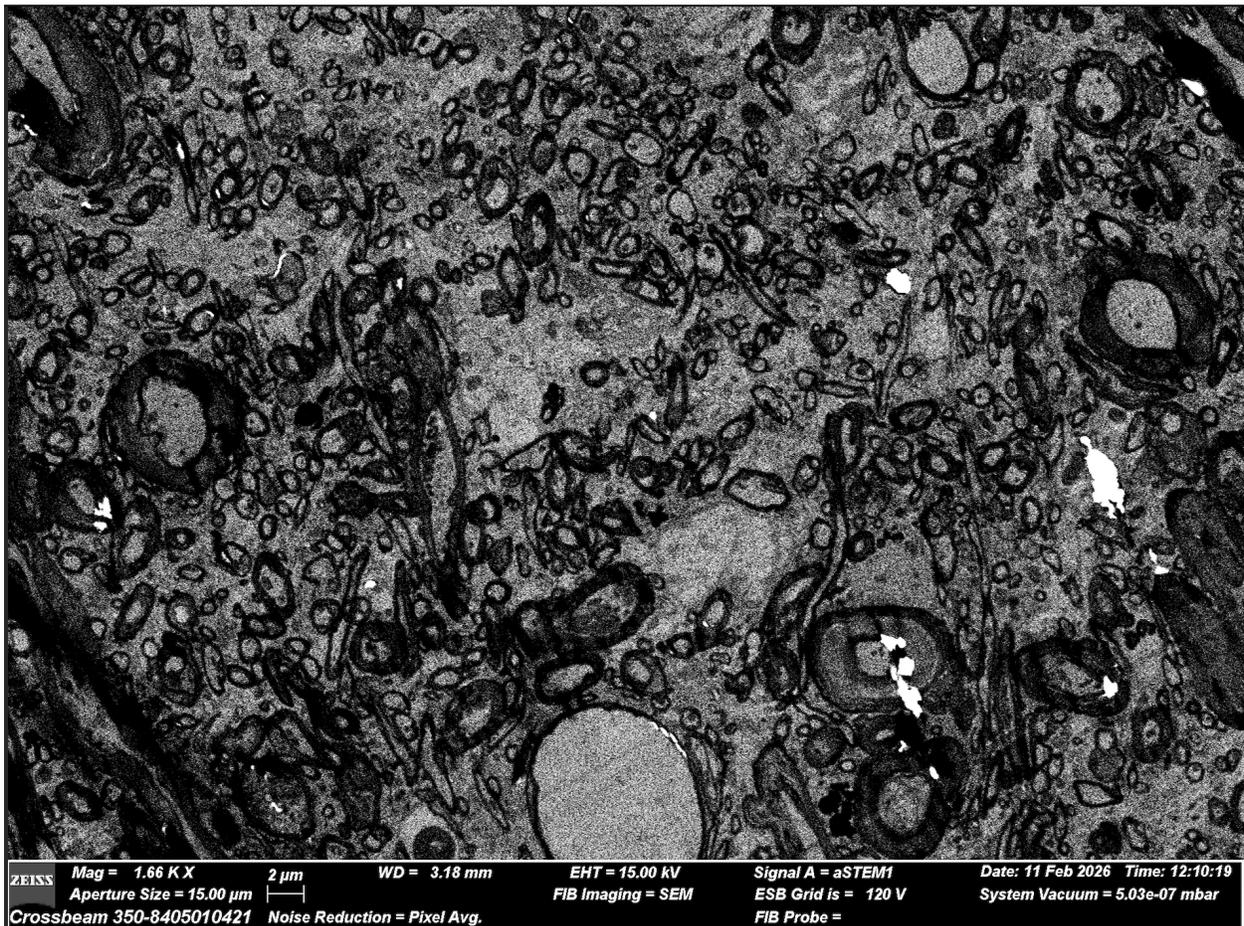


Our three new custom ambulances arrived! These allow us to do mobile brain preservation procedures.

Week of Feb 9th

We practiced our brain preservation techniques on one body donor and two donated dogs this week.

We continue to work on our electron microscopy capabilities. This was an image we took with brain tissue we preserved, using the scanning transmission electron microscopy (STEM) mode:



We are working on a systematic review paper on how long after circulatory arrest solutions can be perfused into the brain. The protocol for this review was posted online here:

<https://osf.io/2qm3w/files/7rg6j>

Week of Feb 16th

We practiced our brain preservation techniques on one donated dog this week, and two sheep heads that were acquired as animal byproducts.

We began research experiments studying perfusion in the ischemic rat brain. This will allow us to experimentally determine the ischemic windows -- or more realistically, the stochastic ischemic degradation curves -- after which ischemia affects perfusion quality and ultrastructural preservation. Eventually, we also plan to test various interventions to improve the perfusion quality in this context.

Week of Feb 23rd

We practiced our brain preservation techniques on two body donors this week.

We submitted our article on aldehyde-based cryopreservation (ABC), our planned method for long-term storage, to a journal this week. The raw microscopy imaging data for this article can be found here: https://zenodo.org/communities/aldehyde_based_cryopreservation/.