



AETERNITAS LIFE

A Leader in Ethical Body Donation

What does Aeternitas Life represent?

- ***What is our purpose?***

We are a company that facilitates medical breakthroughs through the exploration of the body

- ***How do we do this?***

We are able to conduct this work through the charitable donations of hundreds of altruistic individuals each year

- ***Why does it matter?***

Their anatomical gifts provide scientists and physicians with the resources necessary to advance medical science



Why is Aeternitas Life different?

- *Many families believe that a memorial service or open casket viewing is not possible with body donation*
- *Often times, families feel forced to choose between an expensive funeral and making a charitable donation for medical research and education*
- *We at are able to combine the selfless gift of body donation, with the closure and celebration of life that is made possible by a memorial service*
- *Additional services include veterans benefits, DNA keepsakes, and eco-friendly Aqua cremation for individuals who cannot donate*



Why is Aeternitas Life the right choice?

- ***We are licensed and audited by the Oregon Health Authority***

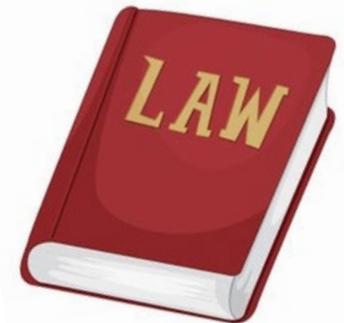
Since our inception in 2015 we have had biennial inspections and records audits by OHA inspectors, and meet all ORS 97.951 regulations

- ***We are the only donation center certified to meet ethical research standards***

Certified to meet HHS 45 CFR § 46.104(d)(2) by Western IRB, an independent medical and research ethical review board with 50 years experience

- ***We meet all state and federal regulations regarding donation***

This includes the Uniform Anatomical Gift Act (UAGA) and Health Insurance Portability and Accountability Act (HIPAA)



Benefits of body donation for families

- *Peace of mind with guaranteed acceptance for preregistered donors*
- *Save thousands of dollars versus a traditional funeral or cremation*
- *Advance science and education for students across the world*
- *Donors are able to have a positive impact on the quality of life of future generations, leaving a legacy that lasts forever*
- *Families and social workers can reach a representative right away, twenty-four hours a day, seven days a week*



Benefits of body donation for science

- *Anatomical gifts contribute to breakthroughs in fighting disease, healing injuries, and training the next generation of medical professionals*
- *Everything your physician knows about treating the diseases and injuries that affect you is owed to the generosity of anatomical donors*
- *These innovations include: cancer research, reconstructive surgery, brain and spinal injury treatments, neurological advancements, medical implant development, and much more...*



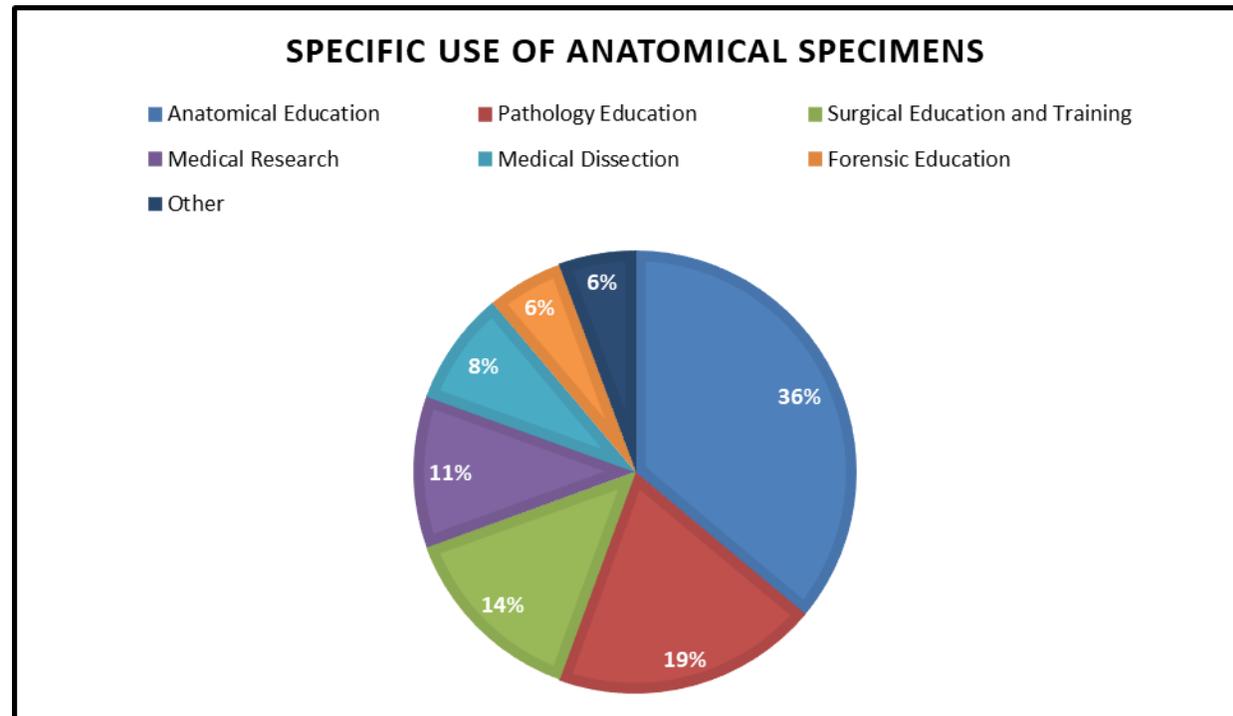
Why is your donation important?

- We work directly with reputable organizations and universities committed to advancing the progress of medical science and education
- Donors can choose to donate to specific research studies, such as brain research, to help scientists learn the secrets of how the brain works
- Your donations will go directly to helping scientists discover treatments for conditions such as depression, degenerative brain disease(s), cerebrovascular accidents and memory loss



Medical need for donations

- In 2021, over 59% of educational institutions said that their medical science, training and education needs were not being met by current donations.*

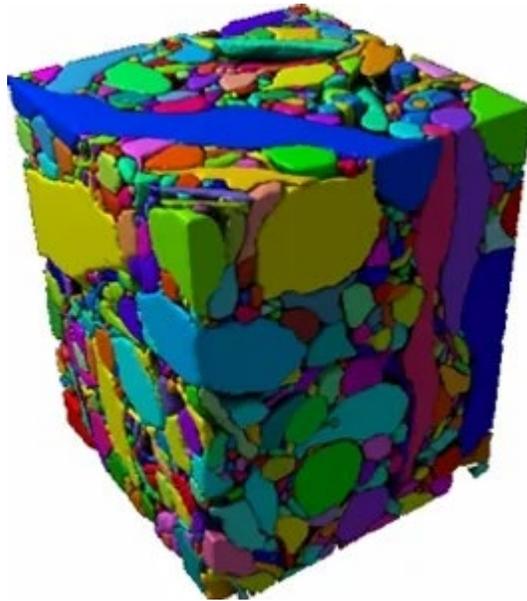


Financial and environmental impact

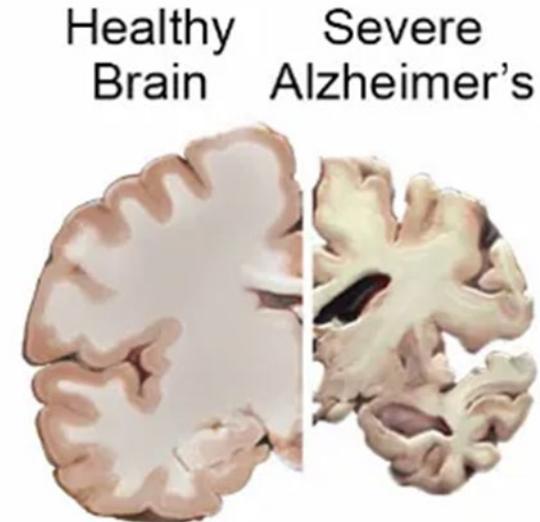
- *The average North American traditional cremation costs between \$1,600 and \$3,000, and the average traditional funeral costs between \$7,000 and \$10,000, according to Parting.com.*
- *The average burial uses 1 gallon of embalming solution per 50 lbs. In the United States, over 827,000 gallons of formaldehyde-based embalming fluids leak into waterways and soil every single year, according to the National Funeral Directors Association (NFDA).*
- *Traditional burials in North America use 30 million pounds of hardwood, 2,700 tons of copper and bronze, 104,272 tons of steel, and 1,636,000 tons of reinforced concrete for burial vaults and caskets, according to the Berkeley Planning Journal.*

Brain science is brain health

What if you could help a scientist cure Alzheimer's disease? You can!



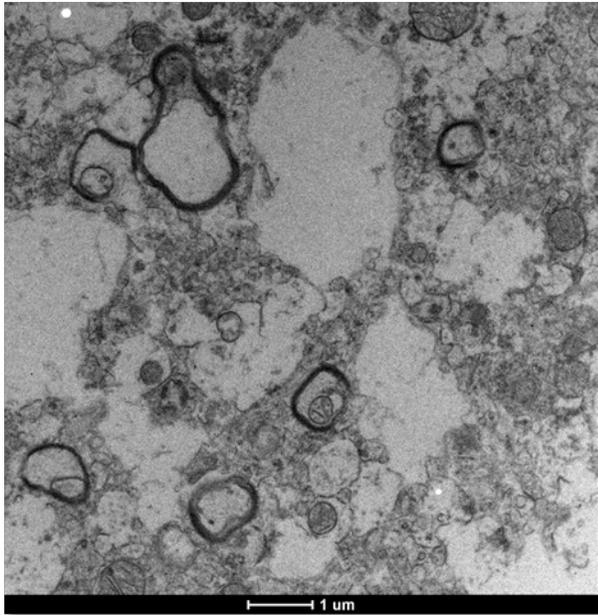
This scan demonstrates the complexity of the brain. Memories are theorized to be encoded in these synaptic nano-structures. Further reading: [Sebastian Seung](#) and [Jeff Lichtman](#)



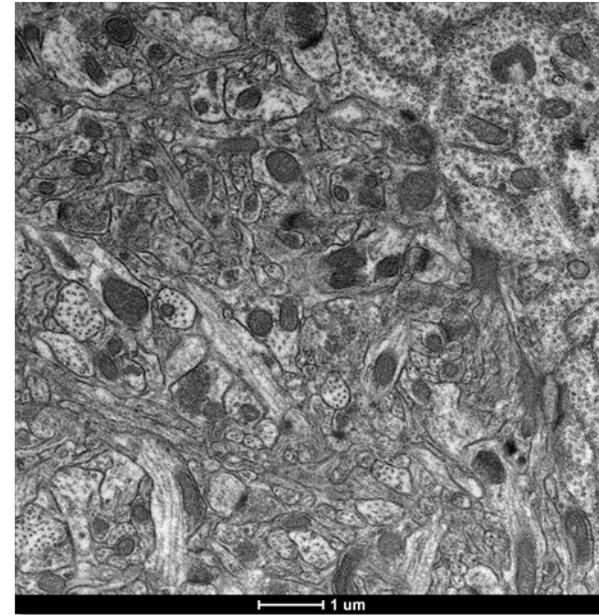
This comparison of brain tissue between a healthy individual and an Alzheimer's disease patient, demonstrating the extent of neuronal death. Further reading: [National Institute on Aging](#)

Transforming brain science

“Brain banking” allows scientists to peer deeper into the brain than ever before...



This is an electron micrograph of poorly-preserved human cortex. This brain was preserved under conditions typical of modern human brain banking protocols. This image is the same size as the image to the right, but it contains far less detail.



This is an electron micrograph of well-preserved rat cortex. The brain was preserved using ASC. The micro-meter structures in this image would fit inside a human hair nearly 100 times. Here you can see the vast detail contained in even a very small tissue sample.

A better way forward

How does new technology allow scientists to make discoveries about the brain?

	Traditional Brain Preservation (Immersion fixation)	Aldehyde-stabilized Cryopreservation (ASC)
Method Description	The brain is surgically recovered and immersed in a container of formaldehyde. The chemical penetrates brain tissues slowly, about a millimeter per hour. The sluggish progress destroys tissue without adequate preservation of the inner brain. The surgical recovery of the brain damages structures and the brain deforms under its own weight.	The brain remains safely protected inside the skull during the preservation process. ASC delivers cryoprotectants quickly and effectively to all regions through the brain's own vasculature. Over 400 miles (644 kilometers) of capillaries in the brain deliver preservative chemicals to every cell in the brain many times per minute.
Time to Stabilization	Approximately 4 to 6 weeks after immersion.	Less than 10 minutes after death.
Time after Death	The brain is surgically recovered between 4 to 24 hours after death is declared. The synaptic structures begin to degrade within 6 minutes after death, and the clogged vasculature prevents effective preservation of nano-scale structures.	The carotid arteries are surgically intubated immediately (1 to 30 minutes) after death is declared. ASC delivers cryoprotectants quickly before tissue death has occurred. This allows for effective preservation of synaptic structures.
Tissue Quality	Traditional immersion fixation fails to preserve critical synaptic details before tissue death and causes significant destruction to the brain's nano-scale structures.	ASC verifiably preserves high-fidelity synaptic structure details. The goal of ASC is to match the quality of biopsies taken during surgery – the "gold standard" of tissue quality.
Tissue Usefulness	Traditional immersion fixation only allows for a macro-level understanding of brain regions and structures. It simply does not meet the needs of modern researchers and educators.	ASC allows for the preservation of nano-scale structures of the entire brain, which was not possible before the early 21 st century. This allows for the advancement of brain science.

How does aldehyde-stabilized cryopreservation (ASC) differ from traditional brain preservation techniques? Here is a brief comparison. Further reading: [Nectome/Ampa Labs](#)

Help us advance brain science

- *The key to brain preservation is rapid preservation after death. For donors and their families, this process poses evident challenges for loved ones and caregivers*
- *Donors must be altruistic individuals with a passion for advancing the progress of medical science and education*
- *We encourage donors who are passionate about science and want to be part of the "final frontier" in brain research to register for brain banking*



How do I become a brain donor?

- *Donors will complete their donation pre-registration with Aeternitas Life*
- *Have a conversation with your family, it is important to inform everyone in your family of your commitment to donate with Aeternitas Life*
- *When a donor approaches their final days of life, the hospice provider, next of kin or legal representatives must notify Aeternitas Life 24-72 hours before death*
- *We can provide bereavement resources for grieving and closure, including a viewing or memorial 48 hours after brain donation*



Questions?

We're here to help you and your hospice team, 24 hours a day...

- Call: 844-330-7040
- Fax: 844-330-7040
- Email: contact@aeternitas.com
- Mail: PO Box 1749, Portland, OR 97207

