

Tissue Donation for Research Helps Scientists Move Away From **Animal-Based** Studies

For more than 40 years, hospitals and community partners across the nation have collaborated with LifeNet Health to support tissue donation for the purpose of transplantation. Now these partners are giving hope in a *new* way by supporting tissue donation for research.

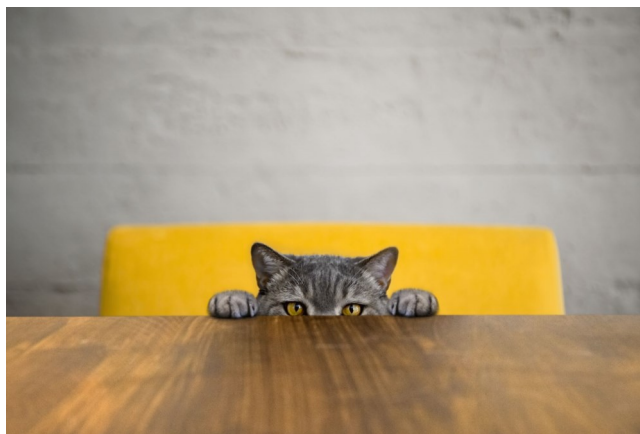
LifeNet Health LifeSciences was established in 2017 to support researchers with more accurate, human relevant drug discovery and toxicity testing options. In recent decades, there has been a growing emphasis on moving away from animal-based studies in favor of methods using human cells. Regulatory agencies in both the United States and Europe have embraced this challenge.

Beyond government regulations, there are scientific factors driving the focus on human cells for research. Here are the top three reasons to move away from animal studies:

Animal studies do not always detect effects and outcomes specific to humans.

During drug development clinical trials, as many as 96% of the medications that successfully complete the nonclinical testing phase fail once they reach the point of testing in humans, according to a 2019 study. This finding suggests major problems with predictability in the preclinical phase when animal-based testing is heavily emphasized.

Animal testing is expensive and time-consuming. Animal tests are anywhere from 1.5 to 30 times more expensive than *in vitro* testing, according to a 2019 report. For industrial toxicity testing using animal studies, it takes about a decade, at a cost of \$3 million, to register a single pesticide.



Scientific innovations are making it easier than ever to rely on all-human testing. Increasingly, primary human cells are becoming more available to support research applications. It is also easier to find human-based organ-on-a-chip platforms, as well as microphysiological systems representing several organ and tissue systems. LifeNet Health LifeSciences, for example, recently launched a pioneering all-human 2D+ hepatic system that blends epithelial, stromal, and endothelial cells at an optimized ratio to mimic the microarchitecture and functionality of the human liver. Our system offers stable, reproducible results – experiment to experiment, user to user, and lab to lab.

Researchers in the life sciences field have many good reasons to consider replacing, reducing, and refining as we move toward safer, more effective screening methods using all-human solutions. We are grateful for the tissue recovery partners that enable LifeNet Health to support these research initiatives.

Your Local Tissue Donation Partners

William Miller Regional Manager

Christopher Albrecht
Montana

Phillip Barnett
Southwest Washington

Kayla Bronson
Analytic Support

Rebecka Dobie
Southeast Washington

Erika Grant
Northeast Washington
& North Idaho

Danielle Harthorne
Greater Seattle Area -
Washington

Meigan Kemp
Team Lead & North
Central Washington

Becky Wenger
Olympic Peninsula -
Washington

Partner Spotlight

Recognizing donation champions for their admirable stewardship.

We are honored to feature Clinical Educator **Amanda Maynes, RN**, of St. Joseph Regional Medical Center, who was recently awarded with LifeNet Health's 2022 Clinical Educator of the Year Award.

"I'm a firm believer in the power of donation," says Amanda. "It impacts not only the [tissue] recipient, but can be very healing for donor families, too."

Amanda has been described as having contagious energy and enthusiasm, which is one of the reasons that LNH staff say she's such a joy to partner with.

We are grateful for Ms. Maynes and our partnership with St. Joseph Regional Medical Center, including all that we have accomplished together to save and enhance lives in our region.



Pictured left to right: Holly Urban, CNO of St. Joseph Regional Medical Center and award recipient, Amanda Maynes.

Additional 2022 Award Recipients:

Curtis Shumate, Executive Director of Nursing for Whidbey Health: Hospital Administrator of the Year Award

Evergreen Health Medical Center: Tissue Donation Standard of Excellence Award



Continued Education Courses begin at 3 p.m. EST | Noon PST

Register today at: www.lifenethealth.org/donation-360-webinar-series

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| Sept. 11 | Tissue Banking: Past, Present and Future |
| Oct. 5 | Conscious Communication |
| Nov. 2 | Compassion Fatigue: Reclaim the Joy of Caring |

Continued Education courses are offered as a complimentary service to all our valued tissue recovery partners. **Contact your local Donor Relations Account Manger today to schedule a private CE event for your staff.**

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