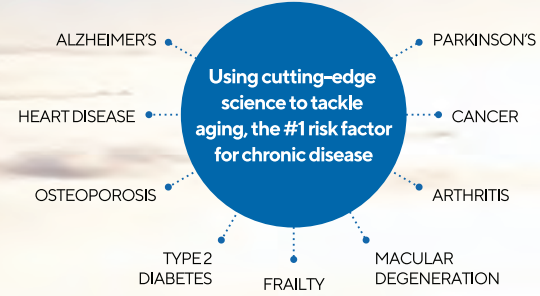




The first independent biomedical research institute in the world focused solely on aging.



OUR MISSION

To end the threat of age-related disease for this and future generations

Live better longer.



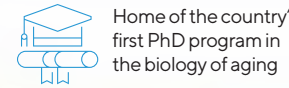
Birthplace of **Geroscience**, a scientific discipline recognized by the NIH, focused on the intersection between aging and chronic disease

Recognized by global media as the premier aging research institute:



125+ scientific papers published each year

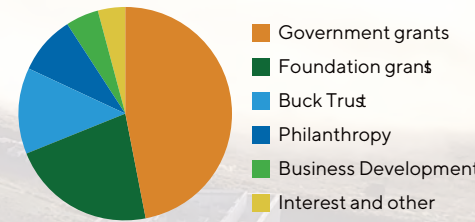
90+ collaborations worldwide



Home of the country's first PhD program in the biology of aging

230 employees from **32** countries

Total budget for FY2025: \$57M



Incubator of multiple biotech startups including **Unity Biotechnology**, which is in Phase II clinical trials

FAST FACTS



Eric Verdin, MD | CEO & Professor
Dr. Verdin has led the Buck since 2016. His lab studies the relationship between aging and the immune system.



Julie Andersen, PhD | Professor
On the road to new therapeutics for neuro-degeneration, including Alzheimer's and Parkinson's disease.



Chris Benz, MD | Professor
Undertaking bench-to-bedside and community efforts to reduce the incidence of breast cancer and improve patient outcomes.



Pierre-Yves Desprez, PhD | Professor in Residence
Taming cellular senescence, the source of chronic inflammation implicated in major age-related diseases.



Francesca Duncan, PhD | Associate Professor in Residence
Understanding interplay between aging ovarian microenvironment, egg quantity and quality.



Lisa Ellerby, PhD | Professor
Understanding the pathways that lead to nerve cell death in Huntington's disease and other neurodegenerative disorders.



David Furman, PhD | Associate Professor
Applying artificial intelligence in systems and computational immunology of aging.



Jennifer Garrison, PhD | Assistant Professor
Understanding how breakdown in homeostatic brain circuits leads to organismal aging.



Pejmun Haghighi, PhD | Professor
Tuning neural function as it relates to aging and age-related diseases.



Malene Hansen, PhD | CSO & Professor
Investigating the role and regulation of the cellular recycling process autophagy in aging and age-related diseases.



Claudio Hetz, PhD | Professor in Residence
Addressing abnormal protein aggregation as a central hallmark of neurodegeneration.



Leroy Hood, MD, PhD | CIO & Distinguished Professor
Fueling the future of healthy aging through personalized, data-driven science.



Pankaj Kapahi, PhD | Professor
Understanding the role of nutrition and energy metabolism in lifespan and disease.



Gordon Lithgow, PhD | Professor & VP, Academic Affairs
Uncovering genes and small molecules that prolong lifespan through enhanced molecular stability.



Simon Melov, PhD | Professor
Identifying molecular hallmarks of aging to guide the development of anti-aging therapies.



John Newman, MD, PhD | Assistant Professor
Harnessing metabolic signals to treat geriatric syndromes of aging.



Nathan Price, PhD | Professor
Uncovering how protein pathways are implicated in aging and disease.



Birgit Schilling, PhD | Professor
Uncovering how protein pathways are implicated in aging and disease.



Tara Tracy, PhD | Assistant Professor
Investigating the mechanisms that promote memory loss in Alzheimer's disease and other age-related dementias.



Ashley Webb, PhD | Associate Professor
Investigating the molecular mechanisms of brain aging and neurodegeneration.



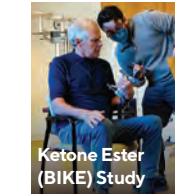
Dan Winer, MD | Associate Professor
Understanding the role of the immune system in aging and chronic metabolic disease.



Kai Zhou, PhD | Assistant Professor
Understanding the plasticity and homeostasis of the cellular proteome under stress conditions and aging.

LEADERSHIP

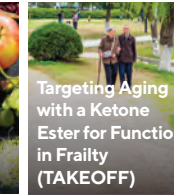
CLINICAL TRIALS
Translational Research Comes to Buck



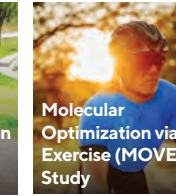
Ketone Ester (BIKE) Study
The safety and tolerance of ketone drinks in older adults



Strategies to Augment Ketosis (STAK)
Variations of ketone metabolism



Targeting Aging with a Ketone Ester for Function in Frailty (TAKEOFF)
Determining if putting at-risk older adults into ketosis can stave off frailty



Molecular Optimization via Exercise (MOVE) Study
Exploring the effects of exercise on aging

The Buck Institute now has a dedicated **Clinical Research Unit**. The Buck CRU investigates how Buck discoveries in the molecular biology of aging may impact the health and resilience of older adults.

Led by Geriatric Physician-Scientist John Newman MD, PhD and supported by experienced clinical research scientists, research associates, and registered nurses, the CRU is a dedicated space that includes examination rooms, biospecimen processing, and specialized tools to measure physical and cognitive function.

If you are interested in participating, scan the QR code to apply. Please note that there are specific criteria that need to be met for the individual studies. Check out our website to see if you would be eligible.

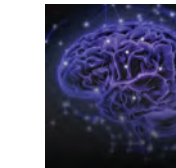


In partnership with:

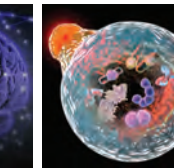


OUR FOCUS AREAS
Tackling Aging through Multiple Avenues of Inquiry

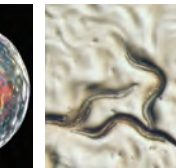
The Buck is addressing the immense complexities of the aging process through many approaches. Each complements the other in a concerted effort to slow down, or even reverse, aging. All of our work is geared toward the ultimate goal of discovering new therapies and interventions that will improve healthspan.



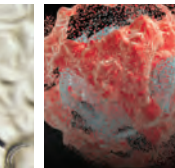
AI and computational biology



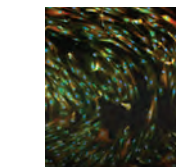
Autophagy



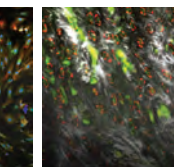
Basic mechanisms of aging



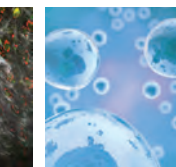
Cancer associated with aging



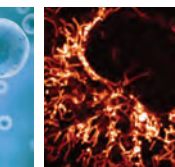
Cellular stress and disease



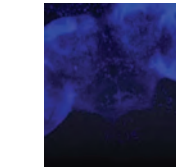
Exercise, nutrition, and metabolism



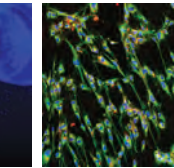
Female reproductive longevity and equality



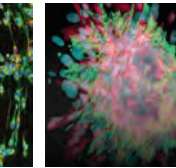
Mitochondria and bioenergetics



Neurodegeneration and brain aging



Senescence and inflammation



Stem cells and regenerative medicine



Sleep and circadian rhythm

Learn more at buckinstitute.com/research

BREAKTHROUGHS

You don't have to be a scientist to make a difference in Buck science!



Stay in the know by signing up for our newsletter and blog posts.
www.buckinstitute.org

Learn about the work going on in our labs.
www.buckinstitute.org/videoportal

Join us

Make a tax-deductible donation to support breakthroughs in aging at the Buck today!
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Buck Institute for Research on Aging
8001 Redwood Blvd. Novato, California 94945 | 415.209.2000

Tax ID# 94-3030609

Help accelerate Buck Science and discoveries with the Innovation Fund.

Become a critical part of the innovative new science underway in every lab at the Buck! Learn how our scientists are thinking differently about aging and working to unlock the secrets of healthy longevity.

The **Buck Innovation Fund** is the best way to get to know the Buck and its exciting research. As a Buck Innovation Partner, you will receive regular updates from Buck labs, and be among the first to understand the practical steps you can take to improve your own health and wellness.

The Innovation Fund provides Buck researchers with invaluable seed capital to pursue their most promising ideas. It gives them the financial resources to investigate the biological mysteries of aging and the chance to develop interventions that push back disease and increase human healthspan – the healthy years of life.

As an Innovation Partner, you will help:

- Ignite new discoveries and breakthroughs
- Pilot the path to new drugs and treatments that promote healthy longevity
- Identify lifestyle changes that improve long-term health
- Bring cutting-edge technologies to Buck labs

Take Your Involvement with Buck Science to an Even Higher Level:

Buck Impact Circle: Join a dedicated group of fellow donors to select a single promising aging research project to fund and follow for one-year.

Sponsor a Study: Co-design a research study to investigate a specific disease or area of aging of interest to you.

Buck Fellowship: Back the career of a promising PhD student or postdoctoral researcher as they trailblaze new approaches in aging research.

Talk to any member of the Buck Philanthropy Team to create one of these uniquely personal gifts!



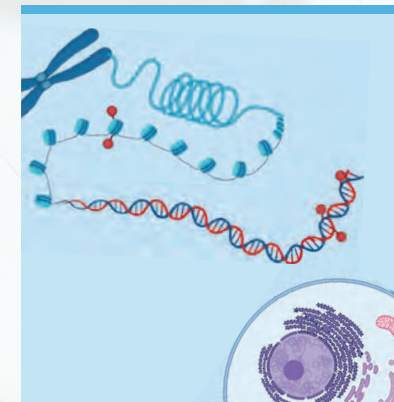
Donate at any level to the Buck Innovation Fund

secure.qgiv.com/for/innovationfund

The Buck Institute is a 501(c)(3) nonprofit organization. We rely on donations to support our mission to end the threat of age-related disease for this and future generations.

There's always more to learn about how to live better longer!

LEARN



Get an insider's view on how research on aging can transform your health in our free online course.

Enroll today!

onlinelearning.buckinstitute.org



LISTEN

We're not getting any younger... yet.



Join podcast host Gordon Lithgow as he speaks with the brightest minds in research on aging.

Listen on your favorite podcast app:



And remember to leave us a 5-star review!



We are inviting you to a future of aging without illness.

It's happening today, and it's happening here.

