

SEMINAR SERIES

Supported by The Department of Biomechanics and
The Center for Research in Human Movement Variability (MOVCENTR)



STUDYING MUSCLE AGING IN *C. ELEGANS*

Featuring Dr. Alfred Fisher
University of Nebraska Medical Center

March 8, 2019

12:00 - 1:15 pm | H&K112

Parking Available in Lot T

ABOUT DR. FISHER

Dr. Fisher is the current Chief of the Division of Geriatrics, Gerontology, and Palliative Medicine in the Department of Medicine at UNMC. He received his MD (1999) and PhD in Cell Biology and Genetics (1998) from Cornell University. He is both clinically active in Geriatric Medicine, and also the head of a basic Biology of Aging research lab for 10 years (at the University of Pittsburgh, UTHSCSA, and now UNMC). The research in his lab seeks to understand how aging occurs in animals and people with the ultimate goal being to utilize this knowledge to improve clinical care for older people. His lab utilizes a combination of genetics and biochemistry to carry out studies primarily using the nematode *C. elegans*. Current projects specifically examine how damaged proteins activate a proteasome-mediated response pathway involving the *aip-1*/AIRAP pathway, identifying genes involved in sarcopenia in worms and studying their effects on mitochondrial function, and elucidating effects of the novel diabetes risk factor tyrosine on insulin signaling in worms. This research has been continuously funded by the NIH since 2004 including a Beeson Career Development Award and a current R21 grant.

LEARNING OBJECTIVES

- Explain muscle aging in people and the negative health consequences associated.
- Describe *C. elegans* and the benefits of this model from a research perspective
- Discuss cell-autonomous and non-cell autonomous pathways that may contribute to preventing muscle aging in long-lived *daf-2* mutants..

The presenter Alfred Fisher, MD, PhD has no financial conflict of interest to disclose. Members of the planning committee, Nick Stergiou, Ph.D., Jeffrey Kaipust, M.S., Angela Collins, M.A., Laura Rotert, B.S., and Jackie Farley, CPP have no financial conflict of interest to disclose.

ACCREDITATION STATEMENT The University of Nebraska Medical Center, Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

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