UC DAVIS HEALTH | SCHOOL OF MEDICINE

Department of
Physiology and Membrane Biology

Distinguished Lecture Series in Physiology

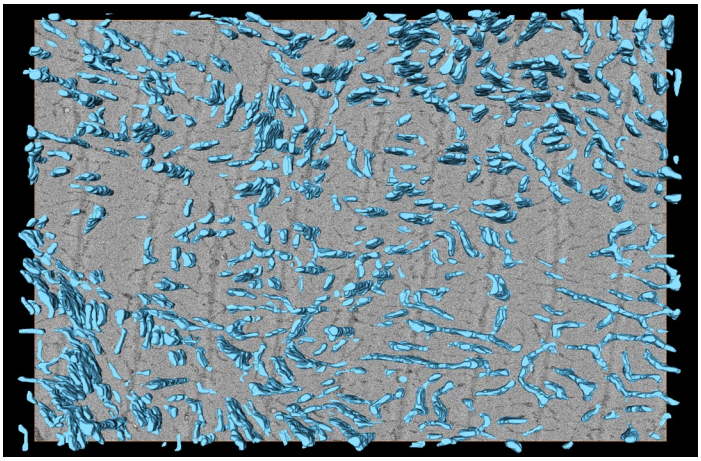
May
2

Antentor Hinton, Jr., Ph.D.

Assistant Professor
Department of Molecular Physiology and Biophysics
Vanderbilt School of Medicine Basic Sciences

"3D Reconstructions of Mouse Skeletal Muscle and Heart Muscle Reveal a Decrease in the MICOS Complex and Altered Mitochondrial Networks"

Skeletal muscle gradually loses mass, strength, endurance, and oxidative capacity during aging. Studies of bioenergetics and protein turnover show that mitochondria mediate this decline in function. Mitochondria are essential for the production of ATP, which occurs in the cristae, the folds of the inner mitochondrial membrane. While mitochondrial aging is associated with endoplasmic reticulum stress, fragmented mitochondria, and decreased mitochondrial capacity, the genes associated with morphological changes in mitochondria during aging are unknown. Further, we do not understand how 3D mitochondrial networks and the specialization of mitochondria alter during aging.



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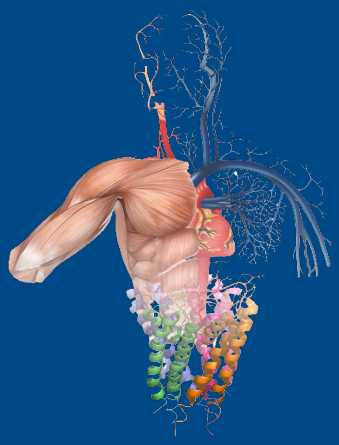

Monday, May 2, 2022
GBSF Auditorium and Zoom
12:00pm

Host: Keith Baar
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