

Redox Biology Center Symposium
Age-associated Mechanisms of Neurodegenerative Diseases
March 19-20, 2020
Willa Cather Dining Complex (530 N 17th St)
University of Nebraska, Lincoln, NE

DAY 1 (Red Cloud Conference Room)		
8:00-9:00 am	Check-in and Continental Breakfast	
9:00-9:15	Organizing Committee	Opening Announcements
	Degenerative Disease of the Eye (Chair/Discussant: Matthew Van Hook)	
9:15-10:00	Janis Eells University of Wisconsin-Milwaukee	Mitochondrial Dysfunction in Retinal Aging and Disease
10:00-10:45	Matthew Van Hook University of Nebraska Medical Center	Synaptic dysfunction in glaucoma and neurodegenerative diseases
10:45-11:00	<i>Coffee break</i>	
11:00-11:20	Short Talk	Selected from student/postdoc abstracts
11:20-11:40	Short Talk	Selected from student/postdoc abstracts
11:40 -12:30	Denise Inman North Texas Eye Research Institute	Hypoxia-induced Metabolic Shift in Neurodegenerative Diseases of the Visual System
12:30-1:30 pm	<i>Lunch (Willa Cather Complex)</i>	
	Cysteine-based mechanisms of cellular decline Chair/Discussant: Mark Wilson	
1:30-2:15	Eranthie Weerapana Boston College	Chemical-proteomic strategies to investigate cysteine oxidation
2:15-3:00	Mark Wilson Redox Biology Center University of Nebraska-Lincoln	Cysteine oxidative chemistry in DJ-1 and Parkinson's Disease
3:00-3:15	<i>Coffee break</i>	
3:15-4:00	Leslie Poole Wake Forest School of Medicine	Functional effects of aging-induced peroxiredoxin modifications
4:00-4:45	Ed Schmidt Montana State University	A liver-brain axis in seizure susceptibility: How hepatic oxidative stress and aging can cause critical amino acid imbalances in the CNS
4:45-7:15	Poster Session and Dinner	
	Keynote Lecture	
7:15-8:15	Richard Youle NIH/NINDS	Neurodegeneration and mitochondrial dysfunction

DAY 2 (Red Cloud Conference Room)**Mitochondrial processes and neurological disorders**

Chair/Discussant: Oleh Khalimonchuk

9:00 -9:45 am	Gyorgy Hajnoczky Thomas Jefferson University	Mitochondrial dynamics and cellular metabolic outputs in neurons
9:45-10:30	Oleh Khalimonchuk University of Nebraska-Lincoln	Proteolytic regulation of mitochondrial functions in health, disease and aging
10:30-10:50	<i>Coffee break</i>	
10:50-11:10	Short Talk	Selected from student/postdoc abstracts
11:10-11:30	Short Talk	Selected from student/postdoc abstracts
11:30 -12:15	Cole Haynes University of Massachusetts Medical School	Mitochondrial UPR-mediated adaptations and maintenance of the mitochondrial network

12:15-1:15 pm *Lunch and Business Meeting (Willa Cather Complex)***Proteostatic stress and aging**

(Chair/Discussant: Vadim Gladyshev)

1:15-2:00	Danica Chen University of California Berkeley	Mitochondrial Metabolic Checkpoint, Stem Cell Aging and Rejuvenation
2:00-2:45	Richard Miller University of Michigan	Drugs that Slow Aging and Age-Related Diseases: Progress and Prospects
2:45-3:00	Short Talk	Selected from student/postdoc abstracts
3:00-3:15	Short Talk	Selected from student/postdoc abstracts
3:15-3:30	<i>Coffee break</i>	
3:30-4:15	Vadim Gladyshev Harvard Medical School	Mechanisms of lifespan control
4:15-5:00	Tony Wyss-Coray Stanford University Medical School	Towards the cellular origins of organismal aging
5:00-5:30	Concluding Remarks and Discussions	
6:00	<i>Dinner on your own</i>	