

NIA NATHAN SHOCK CENTER FOR EXCELLENCE IN AGING

2025 OKLAHOMA GEROSCIENCE SYMPOSIUM

"INFLAMMATION AND LIPID SIGNALING IN AGING AND AGE-ASSOCIATED DISEASE"

APRIL 8, 2025

NICHOLSON CONFERENCE CENTER

1000 NE 13th Street, Ste. 5700, Oklahoma City, OK 73104

KEYNOTE SPEAKER



**FGF21 in the regulation of lifespan,
type 2 diabetes and obesity**

David Mangelsdorf, Ph.D.
The Institution of Texas Southwestern Medical Center
*Alfred G. Gilman Distinguished Chair in Pharmacology, Raymond and Ellen Willie
Distinguished Chair in Molecular Neuropharmacology*

**SCAN FOR MORE
INFORMATION**



FEATURED SPEAKERS



**Fatty acid metabolism in
senescent cells: A matter of
life and death**

Christopher Wiley, Ph.D.
Tufts University



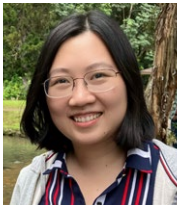
**Unraveling the role of lipid
accumulation in senescence –
implications for healthy aging**

Diana Jurk, Ph.D.
Mayo Clinic



**Insights into the role of lipids
and antioxidants in menopause**

Joanna-Lynn Borgogna, Ph.D.
Tufts University



**Lipid remodeling during
fasting and tumorigenesis
(Nature paper)**

Haojun Yang, Ph.D.
UC San Francisco



**Unraveling the role of lipid
accumulation in senescence –
implications for healthy aging**

Jacob Brown, Ph.D.
University of Oklahoma Health Sciences



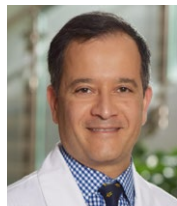
**Role of bioactive lipid
mediators in skeletal muscle
plasticity in aging and related
inflammatory disease**

James F. Markworth, Ph.D.
Purdue University



**Contribution of adaptive
immunity to
menopause-associated
metabolic dysfunction**

Marisol Castillo-Castrejon, MS, Ph.D.
University of Oklahoma Health Sciences



**Inflammaging and Retinal
Neurodegeneration**

Rajendra Apte, MD, Ph.D.
Washington University in St. Louis
School of Medicine



**Exploring microglial diversity: a
single-cell perspective on sex
differences in Alzheimer's models**

Sarah Ocanas, Ph.D.
University of Oklahoma Health Sciences



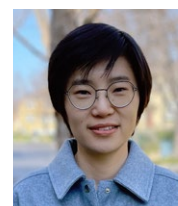
**Contribution of adaptive
immunity to
menopause-associated
metabolic dysfunction**

Vera Gorbunova, Ph.D.
University of Rochester



**The role of necroptosis-induced
inflammation as a driver of liver
aging**

Sabira Jazir
University of Oklahoma Health Sciences



**Functional contribution of
complex lipids in the neurogenic
niche of the aging brain**

Xiaoli Zhao, Ph.D.
Yale




Oklahoma Nathan Shock Center
— of EXCELLENCE IN AGING RESEARCH —

