

Proceedings

State of the Science Symposium:
Metabolic Pathways and Therapeutics to Promote Resilience, Rehabilitation
and Delayed Aging

Friday, October 25th 2019
Sanford Auditorium, Uniformed Services University of the Health Sciences
4301 Jones Bridge Road Bethesda, Maryland

Organized By
Uniformed Services University of Health Sciences
National Institute on Aging

Intermittent fasting: from calories to time restriction
Eleonora Duregon, Laura C.D. Pomatto-Watson, Nathan L. Price,
Michel Bernier, and Rafael de Cabo
<https://link.springer.com/article/10.1007%2Fs11357-021-00335-z>

Fasting and Fasting-Mimicking Diets for Chemotherapy Augmentation
Sebastian Brandhorst
<https://www.springer.com/journal/11357>

Glycolytic Inhibition: Effective Strategy for Developing Calorie Restriction Mimetics
Donald K. Ingram, George S. Roth
<https://link.springer.com/article/10.1007/s11357-020-00298-7>

Diabetes Medications as Potential Calorie Restriction Mimetics: A Focus on the Alpha-Glucosidase Inhibitor Acarbose
Daniel L. Smith, Jr, Rachael M. Orlandella, David B. Allison, Lyse A. Norian
<https://link.springer.com/article/10.1007/s11357-020-00278-x>

Geroscience Perspective on Immune Resilience and Infectious Diseases: A Case For Metformin
Jamie N. Justice, Sriram Gubbi, Ameya S. Kulkarni, Jenna M. Bartley, George A. Kuchel, Nir Barzilai
<https://pubmed.ncbi.nlm.nih.gov/32902818/>

Longevity Pathways in Stress Resistance: Targeting NAD and Sirtuins to Treat the Pathophysiology of Hemorrhagic Shock

Joseph Baur, Carrie Sims, Hanna Labiner, Sohini Shah

<https://link.springer.com/article/10.1007%2Fs11357-020-00311-z>

Effect of Rapamycin on Aging and Age-Related Diseases: Past and Future

Ramasamy Selvarani, Sabira Mohammed Jazir, Arlan Richardson

<https://link.springer.com/article/10.1007%2Fs11357-020-00274-1>

Towards Resolving the Enigma of the Dichotomy of Resveratrol: Cis- and Trans-Resveratrol Have Opposite Effects on TyrRS-Regulated Parp1 Activation

Megha Jhanji, Chintada Nageswara Rao, Sajish Mathew

<https://link.springer.com/article/10.1007/s11357-020-00295-w>

Mitochondrial-Derived Peptides in Aging and Age-Related Diseases

Su-Jeong Kim, Brendan Miller, Hiroshi Kumagai, Ana R. Silverstein, Melanie Flores, Kelvin Yen

<https://link.springer.com/article/10.1007/s11357-020-00262-5>

From Bedside to Battlefield: Intersection of Ketone Body Mechanisms in Geroscience with Military Resilience

Brianna J Stubbs, Andrew P Koutnik, Jeff S Volek, John C Newman

<https://link.springer.com/article/10.1007/s11357-020-00277-y>

Conference Co-Chairs:

- COL (Ret.) Paul Pasquina, MD; Chair, Department of Physical Medicine and Rehabilitation, Uniformed Services Univ. of the Health Sciences; Chief, Integrated Department of Orthopedics & Rehabilitation, WRAMC National Naval Medical Center
- Donald K. Ingram, PhD. Adjunct Professor, Nutritional Neuroscience and Aging Laboratory Director, Animal Metabolism and Behavior Core, Pennington Biomedical Research Center, Louisiana State University, Baton Rouge, LA
- Dr. William K. Smith; MD Associate Professor, Physical Medicine and Rehabilitation, Uniformed Services University of Health Sciences, Adjunct Associate Professor, University of South Carolina School of Pharmacy