

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Pushing the Limits to Healthspan and Longevity (D3)

April 15-19, 2018 • Herrenhausen Palace • Hannover, Germany

Scientific Organizers: Rochelle Buffenstein, Holly Brown-Borg and Colin Selman

in Cooperation with Volkswagen Foundation

Sponsored by Merck & Co., Inc.

Abstract & Scholarship Deadline: December 12, 2017 / Abstract Deadline: January 10, 2018 / Discounted Registration Deadline: February 13, 2018

SUNDAY, APRIL 15

Arrival and Registration

MONDAY, APRIL 16

Welcome and Keynote Address

C. Ronald Kahn, Joslin Diabetes Center and Harvard Medical School, USA
Controlling Metabolism during Aging, Role of Insulin and Adipose Depots

Communicating to Save Thyself: Is a Single Signaling Path the Answer?

Holly M. Brown-Borg, University of North Dakota School of Medicine, USA
Endocrine Manipulation in Aging

Dominic J. Withers, Imperial College London, UK
Manipulation of mTOR: Is this the Holy Grail for Healthy Aging

Reinhold G. Erben[†], University of Veterinary Medicine Vienna, Austria
Talk Title to be Announced

Short Talk(s) Chosen from Abstracts

Good Fat, Bad Fat, Brown Fat, White Fat....

Elisabetta Mueller[†], NIDDK, National Institutes of Health, USA
Talk Title to be Announced

Barbara Cannon, Stockholm University, Sweden
Effect of Environmental Temperature on Longevity

John Speakman, Institute of Genetics and Developmental Biology, CAS, China
Does Dietary Protein Content Leverage Total Food Intake and Hence Drive Obesity?

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, APRIL 17

Trash Removal: Is Enhanced Proteostasis the Way Forward in Aging

Rochelle Buffenstein, Calico Life Sciences LLC, USA
Sustained Maintenance of Proteostasis in the Long-Lived Naked Mole-Rat

Martin S. Denzel, Max Planck Institute for Biology of Aging, Germany
Protein Quality Control and Aging

Karyn L. Hamilton, Colorado State University, USA
Contribution of Changes in Cell Proliferation to Proteostasis in Long-Lived Models

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Powerhouse of the Cell: Manipulating Energy in Aging

Speaker to be Announced

Susanne Klaus, German Institute of Human Nutrition, Germany
Mitochondrial Uncoupling, Diet and Aging in Mice

Hazel H. Szeto, Weill Cornell Medical College, USA
Mitoprotective and Anti-Aging effects of Elamipretide
Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, APRIL 18

Changing what and how we Eat and its Impact upon Healthspan

Colin Selman, University of Glasgow, UK
Dietary Restriction and the Influence of Genotype

Olivia Casanueva, Babraham Institute, UK
Network Structure Changes during Early Aging in C Elegans

Matthew Piper, Monash University, Australia
The Role of Amino Acid Balance in Lifespan Determination in Drosophila

Samantha Marie Solon-Biet, University of Sydney, Australia
Extending Healthspan and Lifespan: Insights From Nutritional Geometry

Short Talk(s) Chosen from Abstracts

Swords, Targets and Cell Death: Combatting Senescence

Judith Campisi, Buck Institute for Research on Aging, USA
Cellular Senescence: A Double Edged Sword

Claude Le Saux, University of California, San Francisco, USA
The Role of Senescent Cells in Aged and Fibrotic Lungs

Nathan K. LeBrasseur, Mayo Clinic, USA
Senolytic Mechanism to Extend Healthspan

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, APRIL 19

A View from Above: Aging at the Top of the Food Chain

Karl Lenhard Rudolph, Fritz Lipmann Institute e.V., Germany
Targeting Molecular Mechanisms of Stem Cell Aging to Improve Health at Old Age

P. Eline Slagboom, Leiden University Medical Center, Netherlands
Talk Title to be Announced

Maiken Nedergaard, University of Copenhagen, Denmark
Role of Sleep in Healthy Aging

Alexander Bürkle, University of Konstanz, Germany
Biomarkers of Aging

Short Talk(s) Chosen from Abstracts

Workshop

Short Talks Chosen from Abstracts

Drugging Aging - Interventions to Extend Human Health and Lifespan

Andrew Phillips, C4 Therapeutics, USA
Targeted Protein Degradation

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Leonard P. Guarente, Massachusetts Institute of Technology, USA

The Anti-Aging Pill

Nathaniel Eames David, UNITY Biotechnology, USA

From Biological Insight to Clinical Development: Senolytic Drugs

Come of Age

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

FRIDAY, APRIL 20

Departure