



MEETING AGENDA

Bats: New Models for Aging Research

The Banbury Center, Cold Spring Harbor Laboratory, New York, USA
March 11-14, 2018

This meeting was funded by **Cold Spring Harbor Laboratory Corporate Sponsor Program**

Organizers:

Emma Teeling, University College Dublin, Ireland
Steven Austad, University of Alabama at Birmingham, USA

By far, the most successful mammals in healthy aging are the bats: Some species live nearly 10 times longer than an average mammal of the same size (humans live less than 5 times longer). Wild bats must maintain muscle strength and agility as well as exquisite echolocation to capture prey and avoid predators. Their muscles must recover quickly after long periods of immobility, given extensive bouts of hibernation, something that human muscles, particularly in the elderly, do not. They also resist cancer, heart dysfunction, and infectious diseases. This Banbury Center workshop convened a cross-disciplinary group of experts to explore the underlying molecular basis of extended health and longevity in bats, and to suggest strategies for integrating the discoveries from this model species into broader aging studies.

SUNDAY, MARCH 11

Afternoon Participant arrivals

6:00 pm Reception, dinner

MONDAY, MARCH 12

7:15 am Breakfast

8:30 am **Welcome and Introductory Remarks**

Rebecca Leshan, Director, The Banbury Center, Cold Spring Harbor Laboratory

Steven Austad, University of Alabama at Birmingham



9:05 am SESSION I: Bat Biology: An Aging Context

Nancy Simmons, American Museum of Natural History, New York, USA

Gerald Wilkinson, University of Maryland, College Park, USA

Dina Dechmann, Max Planck Institute for Ornithology, Radolfzell, Germany

Sébastien Puechmaille, University of Greifswald, Germany

Sonja Vernes, Max Planck Institute for Psycholinguistics, NiJmegen, Netherlands

12:05pm General Discussion

12:30 pm Luncheon at Robertson House

2:00 pm SESSION II: Comparative Approaches to Aging

Vera Gorbunova, University of Rochester, Rochester, USA

Vadim Gladyshev, Harvard Medical School, Boston, USA

Richard Miller, University of Michigan, Ann Arbor, USA

Woodring Wright, UT Southwestern Medical Center, Dallas, USA

Emma Teeling, University College Dublin, Ireland

Rozalyn Anderson, University of Wisconsin, Madison, USA

5:30 pm General Discussion

6:15 pm Reception at Robertson House, dinner

TUESDAY, MARCH 13

7:15 am Breakfast

8:45 am SESSION III: Mechanisms to Measure Aging and its Intervention

David Gems, University College London, UK

Peter Fedichev, Gero LLC & Moscow Institute of Physics and Technology, Moscow, Russian Federation

Felipe Sierra, National Institute of Aging, NIH, Bethesda, USA

Steve Horvath, University of California, Los Angeles, USA

Daniel Promislow, University of Washington, Seattle, USA



11:45 am General Discussion

12:30 pm Luncheon at Robertson House

2:00 pm SESSION IV: Flight, Immunity, Hibernation and Longevity

Liliana Dávalos, Stony Brook University, Stony Brook, USA

Vishwa Deep Dixit, Yale University, New Haven, USA

Katherine Belov, The University of Sydney, Australia

Ken Storey, Carleton University, Ottawa, Canada

Emma Teeling, University College Dublin, Ireland

5:00 pm General Discussion

6:00 pm Reception, dinner

WEDNESDAY, MARCH 14

7:15 am Breakfast at Robertson House

8:30 am SESSION V: Breakout Groups

Steven Austad, University of Alabama at Birmingham

10:45 am SESSION VI: Meeting Wrap-Up and Next Steps

Steven Austad, University of Alabama at Birmingham

Emma Teeling, University College Dublin, Ireland

12:00 pm Luncheon

2:00 pm Afternoon departures



MEETING PARTICIPANTS

Rozalyn Anderson, University of Wisconsin
Steven Austad, University of Alabama at Birmingham
Katherine Belov, The University of Sydney
Liliana Dávalos, Stony Brook University
Dina Dechmann, Max Planck Institute for Ornithology
Vishwa Deep Dixit, Yale University
Peter Fedichev, Gero LLC/Moscow Institute of Physics and Technology
David Gems, University College London
Vadim Gladyshev, Harvard Medical School
Vera Gorbunova, University of Rochester
Steve Horvath, University of California, Los Angeles
Dick McCombie, Cold Spring Harbor Laboratory
Richard Miller, University of Michigan
Daniel Promislow, University of Washington
Sébastien Puechmaille, University of Greifswald
Felipe Sierra, National Institute on Aging, NIH
Nancy Simmons, American Museum of Natural History
Ken Storey, Carleton University
Emma Teeling, University College Dublin
Sonja Vernes, Max Planck Institute for Psycholinguistics
Gerald Wilkinson, University of Maryland
Christopher Wright, Journalist
Woody Wright, UT Southwestern Medical Center