



INTERSOCIETY MEETING, COMPARATIVE PHYSIOLOGY: COMPLEXITY AND INTEGRATION

DETAILS

**OCTOBER
25 – 28
2018**

**New Orleans,
Louisiana**

DEADLINES

Abstract Submission:
July 6

Travel and Minority Awards:
July 6

Advance Registration:
September 24

Hotel Reservations:
October 3

CONFERENCE OVERVIEW

Held every four years, the Comparative Physiology conference highlights the latest discoveries in comparative and evolutionary biology and physiology. It is perhaps the single most widely attended and eagerly anticipated opportunity for comparative physiologists to meet colleagues, present papers and learn from one another. The scientific program includes plenary lectures, symposia, oral and poster presentations and workshops.

CONFERENCE PROGRAM

SESSIONS, SESSION CHAIRS AND TENTATIVE SPEAKERS

Harnessing naturally evolved torpor to benefit human spaceflight

Hannah Carey, Co-Session Chair
Matthew Regan, Co-Session Chair
Matteo Cerri
Vladyslav Vyazovskiy
Jessica Meir

Comparative insights into animal responses to hypoxia and anoxia

Jon Harrison, Co-Session Chair & Speaker
Les Buck, Co-Session Chair & Speaker
Sjannie Lefevre
Doris Abelle
Jacob Campbell

Connecting genomes to phenomes to populations

Allyson Hindle, Session Chair
Loren Buck
Jay Storz
Carolyn Tepolt
Gisele Oda

The role of thermal performance curves in physiology, ecology and conservation

Johannes Overgaard, Session Chair
Michael Angilletta
Timothy Clark
Vanessa Kellermann

PLENARY LECTURE I

**Thursday, October 25 5–
6 p.m. Colleen Farmer**
*Tesla Valves and other
Fluidic Devices in Reptile
Lungs*

PLENARY LECTURE II

**Sunday, October 28
7:00–9:00 p.m. Raymond
Huey** *"Rediscovering classic
studies in ecophysiology —
their renewed relevance in
changing landscapes"*

The role of gasotransmitters in hypoxic and challenging environments

Michael Tift, Co-Session Chair & Speaker
Erica Heinrich, Co-Session Chair & Speaker
Angela Fago
Kenneth Olson

Comparative aspects of animal acid-base regulation

Colin J. Brauner, Session Chair & Speaker
Martin Tresguerres
Jinae Roa
Tobias Wang

Evolution of metabolic proteins

Chris Moyes, Co-Session Chair
Jeffrey Richards, Co-Session Chair
Gigi Lau
Stuart Linton
Kevin Campbell

Michael Berenbrink

Evolution of phenotypic plasticity in physiological systems

Graham Scott, Co-Session Chair & Speaker
Anne Dalziel, Co-Session Chair
Frank Seebacher
Caroline Williams
Andrew Whitehead

[More ▶](#)



Physiology from the neotropics: rhythms, temperature and season

Kênia Cardoso Bicego, Co-Session Chair & Speaker
Luciane H. Gargaglioni, Co-Session Chair & Speaker
Cleo Alcântara Leite
Patricia Tachinardi

MicroRNAs in comparative and evolutionary physiology

Julie Reynolds, Co-Session Chair & Speaker
Pier Morin
Xantha Karp
Katherine McJunkin
Paul Craig

Conducting mechanistic investigations in comparative physiology using in vitro and ex vivo systems

José Pablo Vázquez-Medina, Session Chair & Speaker
Jingxing Ou
Kaitlin Allen
Allyson Hindle
Sarah Milton

Mechanisms of change, physiological response to environmental stressors

Sarah Alderman, Co-Session Chair & Speaker
Todd Gill, , Co-Session Chair
Kathleen Gilmour
Casey Mueller
Amanda Reynolds
Nick Bernier

Animal intestinal microbiomes: community diversity and services provided to the host

Beck Wehrle, Co-Session Chair
Brian Trevelline, Co-Session Chair
Kevin Kohl
Donovan P. German
Filipa Godoy-Vitorino
Khrys Duddleston

Integrating phenotypes and functional genomics to understand mechanisms of remodeling and growth

Todd A. Castoe, Co-Session Chair & Speaker
Stephen M. Secor, Co-Session Chair
Tonia Schwartz
Sandy Martin
C. Geoffrey Burns

Comparative PhysiOmics: systems-level approaches to comparative physiology

Jane Khudyakov , Session Chair
Cory Champagne
Cheryl Logan
Christina M. Vazquez
Jason Podrabsky
Katharine Grabek

Managing fuel metabolism under limited oxygen and energy supply

J-M Weber, Session Chair & Speaker
Morag Dick
Terrie Williams
Grant McClelland