

Minisymposium on *Comparative Respiratory Physiology*

Zoophysiology, Bioscience, Aarhus University, room 127, building 1131

Wednesday March 6th, 2013

- 10:00-10:20 **Jim Hicks.** Interactions of lung ventilation and cardiac shunts: meeting the simultaneous demands of elevated oxygen consumption and acid-base challenges
- 10:20-10:40 **Nina Iversen.** Capillary blood flow and tissue oxygen extraction fraction in animal stroke models; a possible role of flow heterogeneity?
- 10:40-11:00 **William Joyce.** Adenosinergic control of the cardiovascular system in Pythons
- 11:00-11:20 **Mark Bayley.** Respiratory physiology of *Pangasionodon hypophthalmus*
- 11:20-11:40 **Tommy Norin.** Individual variation: what the average physiologist tend to forget?
- 11:40-12:00 **Rasmus Ern Andersen.** Critical temperatures in crustaceans: constraint on oxygen supply capacity, or something else?
- 12:00-13:00 *Lunch*
- 13:00-13:20 **Bill Milsom.** Episodic breathing; what turns it on, what turns it off?
- 13:20-13:40 **Christian Malte.** Intermittent breathing - the effects on gas exchange and metabolism
- 13:40-14:00 **Roy Weber.** A crocodylian hemoglobin that does not play by the rules
- 14:00-14:20 **Christian Damsgaard.** Hemoglobin function in turtles: Molecular adaptations in a diving hibernator
- 14:20-14:40 **Joana P. Garcia.** How sugar junkies cope with high-altitude hypoxia: evolution of hemoglobin function in hummingbirds
- 14:40-15:00 **Inge G. Revsbech.** A visit inside the den: Blood oxygen transport in a warm hibernator, the brown bear *Ursus arctos*
- 15:00-15:20 **Angela Fago.** Protection against hypoxia by nitric oxide: a comparative perspective
- 15:20-15:40 *Coffee break*
- 15:40-16:00 **Michael Pedersen.** Measurements of metabolism using hyperpolarized MRI
- 16:00-16:20 **Kasper Hansen.** Imaging zoophysiology: on the apnoeic endurance of *Trachemys turtles*
- 16:20-16:40 **Peter T. Madsen.** Wet logs on the fire of life: FMR estimates of free ranging whales
- 16:40-17:00 **Sanne Lauridsen.** The role of gastric digestion and protein synthesis on specific dynamic action in pythons (*Python regius*)
- 17:00-17:20 **Hans Malte.** The coolest heat exchanger in the world
- 17:20- *Beers and hot dogs*

Deltagerliste til den årlige Kjell Johansen lecture samt minisymposium om
Comparative Respiratory Physiology, 5. & 6. marts 2013:

Gæster:

Professor William K. Milsom, University of British Columbia, Canada
Professor James W. Hicks, University of California, Irvine, USA
Professor Michael Pedersen, Institut for Klinisk Medicin, AU
Postdoc Joana Projecto-Garcia, University of Nebraska, USA
Postdoc Nina K. Iversen, Center of Functionally Integrative Neuroscience (CFIN) Aarhus
Universitetshospital
Ph.d.-stipendiat Kasper Hansen, Aarhus Universitetshospital
Professor emeritus Roy E. Weber
Docent Hans Gesser

Ansatte på Zoofysiologi, Institut for Bioscience:

Professor Tobias Wang
Professor Peter T. Madsen
Lektor Erik Baatrup
Lektor Mark Bayley
Lektor Angela Fago
Lektor Johannes Overgaard
Lektor Hans Malte
Postdoc Signe H. Bønding
Postdoc Bjarke Jensen
Videnskabelig medarbejder Rasmus Buchanan
Dyrepasser Heidi M. Jensen
Ingeniørassistent John Svane Jensen
IT-administratør Per G. Henriksen
Laboratorietekniker Anny Bang
Erhvervsproglig medarbejder Birgitte Dahl

Ph.d.-studerende på Zoofysiologi:

Tommy Norin Andersen
Sanne Enok Lauridsen
Christian B. Christensen
Anders Findsen
Jonas L. Andersen
Inge G. Revsbech
Christian Malte
Rasmus E. Andersen

Speciale-, projekt- og gæstestuderende på Zoofysiologi:

Christian Damsgaard
Michael Ladegaard
Line Hermannsen
Emil Schrøder
Jeppe Bayley
William Joyce
Branwen Messamah
Laia Rojano