

Scientific Program

Sunday, March 24, 2013

- 4:00-7:00 p.m. Registration at Hotel Santa Maria
5:30-7:00 p.m. Meet & Greet Session at Hotel Santa Maria

Monday, March 25, 2013

- 8:30-9:00 a.m. Registration at the University of the Algarve Symposium location:
Faculty of Economics Amphitheatre (Building 9), University of the Algarve,
Gambelas Campus

Session 1: Sexual Selection and Reproduction

Chair: Anders Berglund

- 9:00-9:20 a.m. **Introduction and Orientation**
- 9:20-10:20 a.m. **Keynote Speaker**
Sexual selection and climate change
Nuno M. Monteiro, CIBIO, University of Oporto, Portugal
- 10:20-10:40 a.m. **Body size differences influences mating competition in the broad-nosed pipefish**
Ingrid Ahnesjö, Gry Sagebakken, Inês Braga Gonçalves, Charlotta Kvarnemo
- 10:40-11:00 a.m. **Partitioning episodes of total selection in the Gulf pipefish**
Emily Rose
- 11:00-11:20 a.m. **COFFEE BREAK**
- 11:20-11:40 a.m. **Sexual selection variation with latitude: insights from a sex-role reversed pipefish**
Lídia Ferreira, Natividade Vieira, **Nuno M. Monteiro**
- 11:40-12:00 a.m. **Caring fathers and their energy reserves: a growth hormone experiment on the broad-nosed pipefish (*Syngnathus typhle*)**
Gry Sagebakken
- 12:00-2:00 p.m. **LUNCH**
- 2:00-3:00 p.m. **Keynote Speaker**
Sexual signals and mating patterns in syngnathidae
Gunilla Rosenqvist, Norwegian University of Science and Technology, Norway

- 3:00-3:20 p.m. **Correlating female secondary sex traits and mating success in the sex-role reversed Gulf Pipefish**
Sarah P. Flanagan, Emily Rose, James Johnson, Adam G. Jones
- 3:20-3:40 p.m. **Sex ratio and density affect sexual selection in a sex-role reversed fish**
Tonje Aronsen, Anders Berglund, Kenyon Mobley, Irja Ratikainen, Gunilla Rosenqvist
- 3:40-4:00 p.m. **Sexual selection: is time a key variable?**
Mário Cunha, Anders Berglund, Nuno M. Monteiro
- 4:00-4:20 p.m. **TEA BREAK**
- 4:20-6:20 p.m. iSeahorse demonstration

Tuesday, March 26, 2013

Session 2: Genetics and Evolution

Chair: Tony Wilson

- 9:00-10:00 a.m. **Keynote Speaker**
The evolution of male pregnancy meets next-generation sequencing
Adam G. Jones, Texas A&M University, USA
- 10:00-10:20 a.m. **Bi-parental immune priming in the sex-role reversed pipefish *Syngnathus typhle***
Anne Beemelmans, Olivia Roth
- 10:20-10:40 a.m. **COFFEE BREAK**
- 10:40-11:00 a.m. **Testing the effectiveness of pigmentation patterns for accurate individual recognition**
Miguel Silva, Mário Cunha, Natividade Vieira, Nuno M. Monteiro
- 11:00-11:20 a.m. **Population genetics of the longnose seahorse (*Hippocampus trimaculatus*) along the northern South China Sea**
Yan-Hong Xhang, Nancy Kim Pham, Qiang Lin
- 11:20-11:40 a.m. **Looking for sex in the genome of *Hippocampus subelongatus***
Erica H. Leder, Sami Meriläita, and Charlotta Kvarnemo
- 11:40-12:00 p.m. **Tracking *Hippocampus guttulatus* recruits within artificial holdfast units in the Ria Formosa using microsatellites**
José Pedro Andrade, Céline Madeira, Diana Novac, João Gomes, Miguel Correia, Samantha Birch, Jorge Palma

12:00-2:00 p.m. **LUNCH**

Session 3: Ecology and Habitat

Chair: Lotta Kvarnemo

- 2:00-3:00 p.m. **Keynote Speaker**
Needles, haystacks and syngnathids: searching for small, cryptic fish in a vast ocean world
Heather D. Masonjones, University of Tampa, USA
- 3:00-3:20 p.m. **Mating in space: amplifier for the outbreak of snake pipefish**
Matthias Kloppmann, Cindy Van Damme, Jens Ulleweit, Chris Lynam, Doug Beare, Bram Couperus
- 3:20-3:40 p.m. **Impact of environmental change on reproductive behaviours in *Syngnathus typhle* and *Nerophis ophidion***
Josefin Sundin, Gunilla Rosenqvist, Tonje Aronsen, Anders Berglund
- 3:40-4:00 p.m. **TEA BREAK**
- 4:00-4:20 p.m. **Can artificial holdfast units work as a habitat restoration tool for long-snouted seahorse, *Hippocampus guttulatus* Cuvier?**
Miguel Correia, Jorge Palma, Heather Koldewey, José Pedro Andrade
- 4:20-4:40 p.m. **New approach to trace seahorse feeding ecology: application of stable isotope analysis**
Sonia Valladares, Francesca Rossi, Miguel Planas
- 4:40-5:00 p.m. **Ecophysiological and behavioral responses of temperate seahorses (*Hippocampus guttulatus*) to global warming**
Vanessa Madeira, Filipa Faleiro, Maria Aurélio, Marta Pimentel, Luis Narciso, Rui Rosa
- 5:00-5:20 p.m. **Spatial and seasonal patterns of European short-snouted seahorse *Hippocampus hippocampus* populations in Canary island environments**
Francisco Otero-Ferrer, Rogelio Herrera, Víctor Tuset, Juan Socorro, Lucía Molina

Wednesday, March 27, 2013

Session 4: Conservation

Chair: Sarah Foster

- 9:00-10:00 a.m. **Keynote Speaker**
Seahorses as ambassadors for marine protected areas
Heather Koldewey, Zoological Society London and Project Seahorse, UK
- 10:00-10:20 a.m. **The species debate: examples of seahorses from the Northern and Southern hemispheres and some conservation implications**
Lucy Woodall, Glenn Moore, Sami Merilaita, Heather Koldewey, Charlotta Kvarnemo
- 10:20-10:40 a.m. **COFFEE BREAK**
- 10:40-11:00 a.m. **Seahorse trade in the east coast of Gulf of Thailand**
Parichart Laksanawimol, Saran Petpiroon, Praneet Damrongphol
- 11:00-11:20 a.m. **The use of a non-invasive tool for capture-recapture studies on a seahorse (*Hippocampus guttulatus*) population**
Miguel Correia, Jorge Palma, Heather Koldewey, José Pedro Andrade
- 11:20-11:40 a.m. **Population characteristics of seahorses in Southeast Asia from rapid assessments and citizen science**
Tse-Lynn Loh
- 11:40-12:00 p.m. **Red List status of syngnathids**
Stefan Wiswedel, Sarah J. Foster, Amanda C.J. Vincent
- 12:00-1:00 p.m. **LUNCH**
- 1:00-5:00 p.m. Excursions

Thursday, March 28, 2013

Session 5: Aquaculture

Chair: Junda Lin

- 9:00-10:00 a.m. **Keynote Speaker**
Developments in seahorse culture: the long snout seahorse case study
Jorge Palma, CCMar, University of the Algarve, Portugal

- 10:00-10:20 a.m. **Captive breeding of weedy sea dragons *Phyllopteryx taeniolatus* in Busan Aquarium, South Korea**
Emily Madge
- 10:20-10:40 a.m. **COFFEE BREAK**
- 10:40-11:00 a.m. **Brazilian research network on the longsnout seahorse *Hippocampus reidi* culture**
Lilia Pereira Souza-Santos, Felipe de Azevedo Silva Ribeiro, Alexandre Alter Wainberg, Maik Cividanes Hora, Roberta Cecilia de Silfronio de Melo, Ricardo Vieira Rodrigues, Marcelo Shei, Luis Andre Sampaio, Ronaldo de Oliveira Cavalli, Wagner Contri Valenti
- 11:00-11:20 a.m. **A method for diet analysis in the long snouted seahorse *Hippocampus guttulatus* based on prey 18SrDNA amplification in faeces reveals prey-specific evacuation rate**
Emmanuel Corse, Sonia Valladares, Alex Chamorro, Miguel Planas, José Pintado
- 11:20-11:40 a.m. **Seahorse aquaculture: from research to commercial production**
Junda Lin, Qiang Lin
- 11:40-12:40 p.m. **Keynote Speaker**
The tale of the pregnant male: whither seahorses?
Amanda C.J. Vincent, Director, Project Seahorse, Canada
- 12:40-2:00 p.m. **LUNCH**
Group Photo
- 2:00-3:00 p.m. **Syngnathid Red Listing Workshop**
- 3:00-3:20 p.m. **TEA BREAK**
- 3:20-4:20 p.m. **Syngnathid Red Listing Workshop (cont'd)**
- 7:30 p.m. **Symposium Dinner**

Friday, March 29, 2013

9:00 a.m.-5:00 p.m. **Extended Syngnathid Red Listing Workshop**