

Monday, June 25, 2018:

12:00 Registration and poster preparation

13:55 Welcome from the organizers

Session chair: Hector Escriva

14:00 Nicholas Holland

Serial block-face scanning electron microscopy: looking for needles in the developing amphioxus haystack

14:30 Linda Holland

Nodal and Hedgehog cooperate in gill slit formation during development of the cephalochordate *Branchiostoma floridae*

15:00 David Ferrier

Homeobox gene evolution: Pax3/7 and Hox

15:30 Che-Yi Lin

Single-blastomere transcriptome profiling reveals molecular asymmetry in the early amphioxus embryo

16:00 Coffee break and poster session

Session chair: Michael Schubert

16:30 Noriyuki Satoh

Chordate origins and evolution: a comparative genomics approach

17:00 Yi-Hsien Su

Chordate origins: from an ambulacrarian perspective

17:30 Elisabeth Zieger

Retinoic acid signaling and neurogenic niche regulation in the developing peripheral nervous system of amphioxus

17:50 Jiri Pergner

Molecular analysis of amphioxus cerebral vesicle – immunofluorescent study

18:10 Filomena Caccavale

Further characterization of the DiMesencephalic primordium in amphioxus: Are there any deeper subdivisions?

18:30 Open discussion

19:00 BBQ

Tuesday, June 26, 2018:

Session chair: Jr-Kai Yu

09:00 **Daniel Meulemans Medeiros**

Comparisons of *Xenopus*, lamprey, and amphioxus reveal a conserved gene regulatory network for chordate pharyngeal segmentation

09:30 **Huijia Wang**

The origin and evolution of vertebrate head mesoderm

09:50 **Anthony Leon**

Role of the Nodal signaling pathway in amphioxus (*Branchiostoma lanceolatum*) neural induction.

10:10 **Ugo Coppola**

The evolutionary landscape of the Rab family in chordates

10:30 Coffee break and poster session

Session chair: Hector Escriva

11:00 **Manuel Irimia**

Amphioxus functional genomics reveals the evolution of vertebrate regulatory traits

11:30 **Oleg Simakov**

Deeply conserved synteny and the evolution of ancestral chordate chromosomes

12:00 **Amina Echchiki**

Seeking protein-coding genes using a new amphioxus genome assembly

12:30 Lunch break

Session chair: Michael Schubert

14:00 **Cedric Patthey**

Antibody-based FACS-Seq as a method to profile cell types in any species

14:30 **Guang Li**

Asymmetric Hh signaling acts through *Cer* to control amphioxus left-right asymmetry

15:00 **Peter Holland**

Homeobox gene knock-outs: work in progress

15:20 **Hector Escriva**

MARIMBA, a database for amphioxus and marine model organisms

15:30 **Concluding remarks**

16:00 ***Start EED meeting***