

Building beauty: from genes to shape

The 3rd International COS Symposium

Thursday, June 20th	
Session 1: Cell	
17:00 - 17:15	Introductory words (J. Wittbrodt)
17:15 - 17:30	Schmeil Award (S. Strahl)
17:30 - 18:30	Keynote Lecture: Alain Prochiantz - College de France, Paris, France <i>"The simple beauty of homeoprotein transduction"</i>
18:30 - 21:00	Welcome reception and posters viewing

Friday, June 21st	
Session 1: Cell	
09:00 - 09:30	Andrea Brand - Gurdon Institute, Cambridge University, UK <i>"Stem cells to synapses: regulation of self-renewal and differentiation in the nervous system"</i>
09:30 - 10:00	Olivier Pertz - Department Biomedizin, University of Basel, Switzerland <i>"Building a polarized fibroblast - From cytoskeletal dynamics to Shape"</i>
10:00 - 10:30	Mihaela Zigman - COS Heidelberg, Germany <i>From individual cell polarization to coherent tissue morphogenesis: building the zebrafish neural tube</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:15	Guido Grossmann - COS Heidelberg, Germany <i>"Membrane polarization through selective diffusion barriers and anisotropic protein dynamics."</i>
11:15 - 11:45	Ulrich Schwarz - ITP Heidelberg, Germany <i>"On force and form: what cell and tissue shape can tell us on actomyosin force generation"</i>
Session 2: Tissue	
11:45 - 12:15	Jan Traas - ENS Lyon, France <i>"From genes to shape: morphodynamics at the shoot apical meristem"</i>
12:15 - 12:45	Damian Brunner - University of Zurich, Switzerland <i>"Cytoskeleton architecture, force generation and mechanistic principles of tissue closure"</i>
13:00 - 14:30	<i>Lunch and Poster viewing</i>
14:30 - 15:00	Ingrid Lohmann - COS, Heidelberg, Germany <i>"Hox Control of Drosophila Feeding Movements"</i>

Friday, June 21st	
15:00 - 15:15	Khaled Khairy - HHMI / EMBL, USA/Germany <i>"A spherical harmonics-based approach to developmental mechanics in the fruit fly"</i>
15:15 - 15:45	François Graner - Jussieu University, Paris, France <i>"Fly thorax morphogenesis: from cell dynamics to tissue shape"</i>
15:45 - 16:15	<i>Coffee break</i>
Session 3: Organisms	
16:15 - 16:45	Alexis Maizel - COS Heidelberg, Germany <i>"Lateral root morphogenesis in Arabidopsis thaliana"</i>
16:45 - 17:15	Erez Raz - University of Münster, Germany <i>"Motility and directed migration of primordial germ cells in zebrafish "</i>
17:15 - 17:30	Venera Altapova - COS Heidelberg, Germany <i>"X-ray phase-contrast imaging for developmental biology"</i>
17:30 - 18:00	Przemyslaw Prusinkiewicz - University of Calgary, Canada <i>"Biology, Computation, and Art: Understanding the Form of Trees"</i>
18:00 - 18:15	Poster award ceremony and closing remarks.