

From Signal to Structure in Embryogenesis and Organogenesis

October 7 and 8, 2010

Joint Symposium of the Albert-Ludwigs-University Freiburg research centers and graduate training schools:

SFB 592 "Signaling Mechanisms in Embryogenesis and Organogenesis"

GRK 1104 "From Cells to Organs: Molecular Mechanisms in Organogenesis"

GRK 1305 "Signal Systems in Plant Model Organisms"

bioss - Biological Signaling Systems

FRIAS Lifenet

Place: Lecture Hall of the Otto-Krayer-Haus, Albertstr. 25, Freiburg, Germany

Date	Name	Title of Session / Presentation
Thursday, 07.10.2010	Morning Session	Systems Approach - Organ Development Chair:
9:10	Opening Remarks	
9:15	Jochen Wittbrodt	to be announced
9:50	Stanislav Shvartsman	Paint-by-numbers: pattern formation in developing epithelial layers
10:25	Coffee Break	
10:55	Carl-Philipp Heisenberg	Cell and tissue mechanics in zebrafish gastrulation
11.30	George Coupland	Initiation of flower development in annual and perennial plants
12:05	Michael Levin	Endogenous bioelectrical signals as patterning cues in development, regeneration, and neoplasm
12:40-14:00	Lunch Break	
	Afternoon Session	Signaling in Early Embryogenesis Chair:
14:00	Olivier Pourquie	Patterning the vertebrate axis
14:35	Jean-Paul Vincent	Signalling mechanisms triggering apoptosis in response to disruption of epithelial integrity
15:10	Wolfgang Lukowitz	Cell fate decisions in the early Arabidopsis embryo
15:45	Jerome Gros	Cellular Events shaping the Vertebrate Limb
16:20	Poster Session / Coffee	16:20 presenting even-numbered 17:10 presenting odd-numbered
18:00	Poster Session	18:00 Poster Buffet Dinner
	Evening Lecture	
19:15 - 20:00	Christof Niehrs	Mechanims of Wnt/LRP6 signaling in Xenopus embryogenesis

Date	Name	Title of Session / Presentation
Friday, 08.10.2010	Morning Session	Stem Cells, and Asymmetric Cell Divisions Chair:
9:15	Yves Barde	Trophic mechanisms in the developing nervous system
9:50	Marcos Gonzalez-Gaitan	Sara endosomes during asymmetric cell division
10:25	Coffee Break	
10:55	Alfonso Martinez Arias	Wnt signalling and the regulation of stochastic events in development
11.30	Kenneth Birnbaum	Building a Cell: Modeling the Re-Construction of A Cellular Circuit in Plant Root Regeneration
12:05	Thomas Bosch	Towards understanding the evolution of stem cells: insights from the bilaterian ancestor Hydra
12:40-14:00	Lunch Break	
	Afternoon Session	Cell Growth and Differentiation Chair:
14:00	Irma Thesleff	Signaling centers regulating tooth morphogenesis
14:35	Victor Tarabykin	Cell fate and connectivity in the neocortex:extrinsic and intrinsic factors
15:10	Rob Martienssen	Small RNA signalling and the role of heterochromatin in plant reproduction
15:45	Coffee Break	
16:15	Jeremy Reiter	Cilia and Hedgehogs: Partners in crime during development, cancer and wound healing
16:50	Christopher Kintner	Development of ciliated epithelia
17:25	Final note	
17:30	End of Symposium	