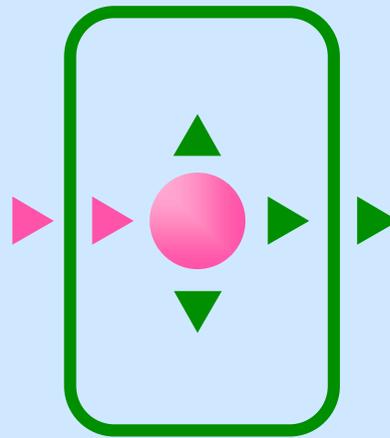




Signals and
Signal Processing
during Cellular
Differentiation



SFB 497

Co-organized by:
Landesforschungsschwerpunkt Baden-Württemberg „Kompartimentierung neuronaler Zellen“
International Graduate School in Molecular Medicine, Ulm

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SFB 497
Symposium

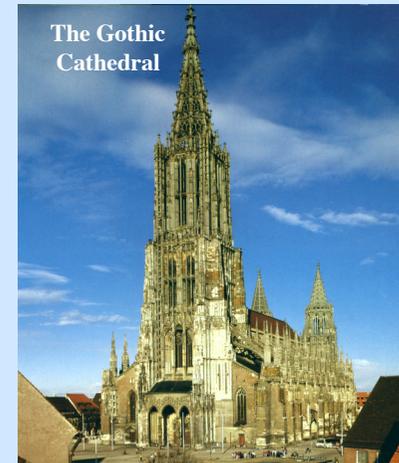


*Signalling Pathways
in Cellular Differentiation*

October 11-13th 2007
Ulm University, Germany

Neuronal Communication

Signalling in Immunobiology



Embryonic Stem Cells

Embryogenesis

Thursday, October 11th

14:00	Opening Address
	<u>Session I</u> Neuronal Communication Chairs: Fässler R (Martinsried, D) and Böckers TM (Ulm, D)
14:10-14:50	Gundelfinger ED (Magdeburg, D) Molecular mechanisms of assembly and plasticity of CNS synapses
14:50-15:30	Sala C (Milano, I) Mutations in postsynaptic proteins link synapse formation to mental retardation
15:30-16:10	Fagni L (Montpellier, FR) Role of Shank associated protein in dendrite morphogenesis
16:10-16:30	<i>Coffee Break</i>
16:30-17:10	Courtney M (Kuopio, FIN) Possible targets for neuroprotectants against excitotoxicity - the postsynaptic density and beyond
17:10-17:50	Brose N (Göttingen, D) Neurologin function - From synaptogenesis to molecular mechanisms of autism
17:50-18:30	Bourgeron T (Paris, FR) Abnormal synaptogenesis and melatonin synthesis in autism spectrum disorders
18:30-19:30	<i>Postersession I</i>

Friday, October 12th

	<u>Session II</u> Signalling in Immunobiology Chairs: Lipp M (Berlin, D) and Fischer K-D (Ulm, D)
08:30-09:10	Cantrell D (Dundee, UK) The role of serine kinases in lymphocytes

09:10-09:50	Penninger J (Wien, A) Control of T cell activation and cytotoxic anti-tumor immunity by the E3 ligase Cbl-b
09:50-10:30	Rao A (Boston, USA) Calcium signalling in lymphocytes
10:30-11:00	<i>Coffee Break</i>
11:00-11:40	Wienands J (Göttingen, D) Initiation and fine-tuning the calcium response of activated B cells
11:40-12:20	Gunzer M (Braunschweig, D) The plasticity of T cell responses to different antigen presenting cells
12:20-13:00	Krummel M (San Francisco, USA) Spatiotemporal aspects of T cell activation in vitro and in vivo
13:00-14:00	<i>Lunch</i>

Session III Embryogenesis

	Chairs: Renkawitz-Pohl R (Marburg, D) and Pandur P (Ulm, D)
14:00-14:40	Cadigan K (Ann Arbor, USA) Wnt signaling directly represses hemocyte-specific genes through a novel mechanism
14:40-15:20	Dollé P (Illkirch, FR) Cross-talks between retinoic acid, Fgf and Shh signalling during early mouse caudal development
15:20-16:00	Streit A (London, UK) Cell fate decisions during sensory placode development
16:00-16:30	<i>Coffee Break</i>
16:30-17:10	Mercola M (La Jolla, USA) Natural and small molecule inducers of cardiogenesis
17:10-17:50	Slusarski DC (Iowa City, USA) Calcium signaling in zebrafish embryonic patterning and morphogenesis

17:50-18:30	Gurdon J (Cambridge, UK) The reversal of cell differentiation by nuclear transfer
18:30-19:30	<i>Postersession II</i>
from 19:00	<i>Evening Party/Buffer</i>

Saturday, October 13th

	<u>Session IV</u> Embryonic Stem Cells Chairs: Seufferlein T (Ulm, D) and Fehling HJ (Ulm, D)
08:30-09:10	Chambers I (Edinburgh, UK) Nanog; guardian of pluripotency, gateway to the germline
09:10-09:50	Ng HH (Singapore, SG) Epigenetic landscape in stem cells
09:50-10:30	Fehling HJ (Ulm, D) Embryonic stem cells and gene-targeted mice lacking the developmental pluripotency associated gene Dppa4
10:30-11:00	<i>Coffee Break</i>
11:00-11:40	Zwaka TP (Houston, USA) Dissecting self-renewal and programmed cell death in pluripotent embryonic stem cells
11:40-12:20	Brüstle O (Bonn, D) From ES cells to neural stem cells to functional neurons
12:20-13:00	Keller GM (Toronto, CA) Lineage specific differentiation of embryonic stem cells
13:00	Concluding Remarks
13:10	<i>Appetizer</i>