

Graduate College Immunomdulation Winter Semester 2007-08 Programme 'Methods in Immunology'

Date	Topic	Lab/Presentation		
		Hünig	Generation of monoclonal antibodies	
18.10.2007		Herrmann	mAb purification and labeling	
10.10.2007		Müller	Purification/characterization of recombinant proteins	
		Vogel	2D electrophoresis of protein mixtures	
	Working with nucleic acids	Berberich	Retroviral transduction and cell sorting	
25.10.2007		Tony	Single cell PCR	
		Otto	(RT) PCR, identification of micro-RNAs	
	, Visualizing lymphocyte activation and death	Kerstan	Detection of apoptosis by FACS stainings and immunohistology	
08.11.2007		Berberich-Siebelt	Transcription factor activation measured by confocal microscopy, EMSA or ChIP	
		Martini	Immune histology, confocal and electron microscopy	
45.44.0007		Lutz	DC generation, maturation, transwell migration. CFSE labeling and tracking of T-cells	
15.11.2007		Moll/Remer	CD-mediated immunization in the Leishmania system	
		Beilhack	In vivo imaging	
22.11.07	T-cell effector assays	Торр	Ex vivo assays for detection and quantification of antigenspecific T-cells	
22.11.07		Wischhusen	Assays for cell-mediated cytotoxicity	
		Hünig	Cytokine secretion assays	

29.11.07	
6.12.07	During these five weeks, the Graduates should carry-out a Mini-Project (minimum of 10 hours bench-work) with the
13.12.07	aim of learning a method not available in their own laboratory.
20.12.07	
10.01.08	

Mini-Project Presentations

17 January 2008	2D electrophoresis, cytokine analysis					
Josip Zovko	2D electrophoresis	Vogel				
Jianqiang Li	2D electrophoresis	Vogel				
Hieu Tran-Van	Co-localisation of Neuropilin1 and Plexin A1 in lipid rafts	Martini				
Martin Väth	Intracellular cytokine analysis of NFAT-transduced human T cells	Торр				
Christiane Hammerschmidt	Cytokine profile of oligodendrocyte cell culture supernatant	Hünig				
Katrien Pletinckx	Th1 versus Th2 analysis by cytokine bead array	Hünig				
24 January 2008 microscopy, DCs						
Anja Döhler	Detection of c-rel/RelA in DCs by confocal microscopy	Berberich-Siebelt				
Tessa van Alen	Electron microscopy of biofilms	Martini				
Kati Martens	Immunohistology of the CNS	Hünig				
Anja Matuschek	DC studies	Lutz				
Paula Tabares-Gaviria	Activation of DCs	Lutz				
Stefanie Manthey	CFSE proliferation assay and DC generation	Lutz				
31 January 2008 gene expression						
Claudia Stühler	Real-time PCR of Hsp90 following siRNA-mediated knockdown	Otto				
Elisa Monzon-Casanova	Real-time PCR	Otto				
Anoop Chandran	Single cell PCR	Tony				
Khalid Muhammad	Gene expression study by microarrays	Kneitz				
Stefan Fischer	CHIP analysis of the MCP-1 locus in mutant peripheral nerves.	Berberich-Siebelt				
7 February 2008 mAb generation, detection of proliferating, cytotoxic and apoptotic cells						
Yvonne Dombrowski	Generation of mAbs against hGDF15	Hünig				
Asifa Khalid	Purification of IL-5	Müller				
Johannes Schnitzer	Determination of T cell proliferation in vitro via CFSE staining	Moll				
Tobias Schwarz	Detection of cytotoxic T cells against Leishmania after vaccination	Wischhusen				
Stefan Saremba	Cytokine-mediated effects on NK-cell killing	Wischhusen				
Daniela Langenhorst	Detection of apoptotic cells	Kerstan				