

Welcome to the 3rd Annual Retreat

of the

International Graduate Program

“Molecular Biology and Medicine of the Lung”

(MBML)



**Rauischholzhausen,
August 1 – 3, 2005**

MONDAY, 01.08.2005

At 08:30

Bus Departure to Rauschholzhausen
Meeting Point: Main Gate to Hospital Area, Gaffkystrasse, at 08:15 a.m.

Up to 09:30

Arrival at the Castle of Rauschholzhausen, Registration

10:30 - 12:00

**Student Presentations:
INFECTION AND INFLAMMATION**

12:00 -13:30

Lunch

13:30 - 15:00: Invited Speakers

KWANG-JIN KIM (University of Southern California/Keck School of Medicine, Los Angeles, USA)

“Lung alveolar epithelial protein transport: an overview”

COLIN BINGLE (The University of Sheffield Medical School, Sheffield, UK)

“Host defence proteins in the respiratory tract - something old, something new”

15:00 - 16:00

Coffee Break

16:00 - 17:30

**Student Presentations:
LUNG (PATHO)PHYSIOLOGY**

17:30 - 19:00

Buffet Dinner

19:00 - 19.45: Invited Speaker

ASRAR MALIK (University of Illinois College of Medicine, Chicago, USA)

“Signaling regulation of endothelial permeability”

After 20.00

Drinks, Chat, Dance, Drinks, Drinks...

TUESDAY, 02.08.2005

07:00 - 08:30

Breakfast

08:30 - 10:00

**Student Presentations:
CELLULAR SIGNALING**

10:00 - 10:30

Coffee Break

10:30 - 12:00: Invited Speakers

MARTIN KOLB (McMaster University, Firestone Institute for Respiratory Health, Hamilton, Canada)

“Animal models of lung fibrosis”

SØREN SHEIKH (Copenhagen University Hospital, University of Copenhagen, Denmark)

“Signaling induced by angiotensin receptors”

12:00 - 13:30

Lunch

13:30 - 15:00

**Student Presentations:
FIBROTIC LUNG DISEASES**

15:00 - 16:30

Coffee Break

Meet-the-Professor-Sessions (MBML students, see announcements)

16:30 - 18:00

**Student Presentations:
DEVELOPMENT AND PROGENITOR CELLS**

18.30 - 19:15: Invited Speaker

JO RAE WRIGHT (Duke University Medical Center, Durham, North Carolina, USA)

“Immunoregulatory functions of surfactant proteins”

19:15 - till you drop!

Barbecue Dinner

(Social Programme: DJ)

WEDNESDAY, 03.08.2005

07:30 - 09:00

Breakfast

09:00 - 09:45

Invited Speaker:

PAUL DIETL (University of Ulm, Ulm, Germany)

“Exocytosis of lung surfactant: from the secretory vesicle to the air-liquid interface”

09:45 - 10:30

Coffee break

10:30 - 12:00

Student Presentations:

PULMONARY VASCULAR DISEASE

12:00 - 13:30

Lunch

At 14:00

Bus departure from Rauschholzhausen to Giessen

Meeting Point: Parking Lot of the Castle 14:15

A) INFECTION AND INFLAMMATION, MONDAY 10:30 - 12:00

Chairs: Henning Gall & Takwi Nkyimbeng

10:30 - 10:45: [Ruth Pinto](#) (Pleschka Lab)

“The effect of MAPK-inhibition on Influenza A virus replication and host inflammatory response in the mouse lung”

10:45 - 11:00: [Marcus Queisser](#) (Preissner Lab)

“Advanced glycation end products & RAGE: Thread in diabetes and lung injury”

11:00 - 11:15: [Susanne Herold](#) (Lohmeyer Lab)

"Influenza A virus induces transepithelial monocyte migration: Impact of chemokines and adhesion molecules"

11:15 - 11:30: [Giovanni Galvis Rojas](#) (Kummer Lab)

"The role of alveolar macrophage nicotinic acetylcholine receptors in pulmonary anti-inflammatory cholinergic pathways”

11:30 - 11:45: [Maciej Cabanski](#) (Lohmeyer Lab)

„PAMP-induced genetic programs in mononuclear phagocytes“

11:45 - 12:00: [Werner von Wulffen**](#) (Lohmeyer Lab)

“Recruitment pathways and innate immune potential of Flt3-L-recruited lung dendritic cells”

B) LUNG (PATHO)PHYSIOLOGY, MONDAY, 16:00 - 17:30

Chairs: Bhola Dahal & Aparna Jayachandran

16:00 - 16:15: [Bakytbek Egemnazarov](#) (Ghofrani Lab)

"Impact of an sGC activator on ischemia-reperfusion injury: kinetics of ROS production"

16:15 - 16:30: [Darek Zakrezewicz](#) (Eickelberg Lab)

„Compartmentalization of protein arginine methylation in human and mouse tissues by high performance liquid chromatography“

16:30 - 16:45: [Natascha Sommer](#) (Weissmann Lab)

“The role of mitochondria in oxygen sensing in the lung”

16:45 - 17:00: [Akylbek Sydykov](#) (Ghofrani Lab)

"Role of iNOS in ischemia/reperfusion injury of the lung"

17:00 - 17:15: [Julia Sevilla-Perez](#) (Eickelberg Lab)

”Characterization of alveolar epithelial cell gene expression *in vivo* under TGF- β stimulation”

17:15 - 17:30: [Rolf Schäfer**](#) (Weissmann Lab)

”Hypoxia-induced formation of reactive oxygen species (ROS) in isolated perfused and ventilated mouse lungs”

C) CELLULAR SIGNALING, TUESDAY, 08:30 - 10:00

Chairs: Susanne Herold & Sabine Lange

08:30 - 08:45: [Shu Li](#) (Hänze Lab)

”Gene expression of Nox1 long and Nox1 long variant and their impact on ROS generation”

08:45 - 09:00: [Dorothea Peters](#) (Eickelberg Lab)

”Identification of novel binding partners of activated Smads”

09:00 - 09:15: [Ying Ju Lai](#) (Schermuly Lab)

”Prostacyclin signaling in experimental pulmonary hypertension: Role of receptor desensitization”

09:15 - 09:30: [Jadranka Milosevic](#) (Eickelberg Lab)

”Annexin 2 is a novel signaling intermediate in the TGF- β pathway”

09:30 - 09:45: [Manish Mittal](#) (Weissmann Lab)

”Role of NADPH oxidases and potassium channels in oxygen sensing”

09:45 - 10:00: [Kamila Kitowska](#) (Eickelberg Lab)

”Target identification of cytosolic protein arginine methyltransferases (PRMT)”

D) FIBROTIC LUNG DISEASES, TUESDAY, 13:30 - 15:00

Chairs: Werner von Wulffen & Natascha Sommer

13:30 - 13:45: [Matthias Hecker](#) (Eickelberg Lab)

”Role of the IL-13 receptor IL-13RA2 in pulmonary fibrosis”

13:45 - 14:00: [Poornima Mahavadi](#) (Günther Lab)

”Surfactant metabolism in lung fibrosis”

14:00 - 14:15: [Aparna Jayachandran](#) (Eickelberg Lab)

”TGF- β signal transduction in epithelial to mesenchymal transition (EMT) of alveolar epithelial cells”

14:15 - 14:30: [Melanie Königshoff](#)** (Fink Lab)

”Analysis of epithelial-mesenchymal crosstalk by gene expression profiling”

14:30 - 14:45: [Bozena Nejman](#) (Eickelberg Lab)

”TGF- β receptor expression determines progressive fibrosis”

14:45 - 15:00: [Takwi Nkyimbeng](#) (Günther Lab)

”Extracellular matrix remodelling by MMPs in the lung”

E) DEVELOPMENT AND PROGENITOR CELLS, TUESDAY, 16:30 - 18:00

Chairs: Rolf Schäfer & Maciej Cabanski

16:30 - 16:45: [Vandana Nikam](#) (Voswinkel Lab)

“Circulating fibrocytes in pulmonary hypertension”

16:45 - 17:00: [Sabine Lange](#) (Sauer Lab)

“Investigations on vasculogenesis and smooth muscle differentiation of mouse embryonic stem cells”

17:00 - 17:15: [Katrin Ahlbrecht**](#) (Voswinkel Lab)

“The transcription factor HIF-2 α in lung growth and remodelling”

17:15 - 17:30: [Ilja Zaanen](#) (Mayer Lab)

“Impact of n-3 versus n-6 Fatty Acids on Raft Composition and Raft Signal Transduction”

17:30 - 17:45: [Kathrin Woyda](#) (Schermuly Lab)

”The Role of Cyclic Nucleotide Phosphodiesterases in Bronchopulmonary Dysplasia”

17:45 - 18:00: [Jens-Christian Wolff](#) (Fink Lab)

“Molecular mediators of alveolarization”

F) PULMONARY VASCULAR DISEASE, WEDNESDAY, 10:30 - 12:00

Chairs: Melanie Königshoff & Markus Queisser

10:30 - 10:45: [Henning Gall**](#) (Schermuly Lab)

”Combining clinical and basic research - the NO axis in the pulmonary vasculature”

10:45 - 11:00: [Bhola Dahal](#) (Günther Lab)

”Urokinase-type plasminogen activator (uPA) in vascular remodeling in a murine model of hypoxia-induced pulmonary hypertension”

11:00 - 11:15: [Roxana Sandu](#) (Schermuly Lab)

”TGF- β /BMP signaling in the rat model of monocrotaline-induced pulmonary hypertension”

11:15 - 11:30: [Rio Dumitrascu**](#) (Schermuly Lab)

”Activation of soluble guanylate cyclase reverses pulmonary vascular remodeling induced by hypoxia in mice”

11:30 - 11:45: [Fotini Kouri](#) (Eickelberg Lab)

”Functional Genomics of Bone Morphogenetic Receptor Type II (BMPR2) Mutations in Pulmonary Arterial Hypertension”

11:45 - 12:00: [Hans Eisele](#) (Weissmann Lab)

tba

** Current Altana sponsored students

INTRODUCTION SCHEDULE

01.08.2005	13:30; Kim	(Melanie Königshoff)
01.08.2005	14:15; Bingle	(Susanne Herold)
01.08.2005	19:00; Malik	(Rio Dumitrascu)
02.08.2005	10:30; Kolb	(Matthias Hecker)
02.08.2005	11:15; Sheikh	(Chevooru Krishnaveni)
02.08.2005	18:30; Wright	(Werner von Wulffen)
03.08.2005	09:00; Dietl	(Katrin Ahlbrecht)

ENJOY IT!

