

Welcome to the 10th Annual Retreat
of the
International Graduate Programme
Molecular Biology and Medicine of the Lung



Rauischholzhausen, Germany
August 6-8, 2012



MONDAY, 06.08.2012

Up to 09:00

Arrival at the Rauschholzhausen Castle, Registration

09:00 - 09:15

Welcome and Introduction: Rory E. Morty and Werner Seeger

09:15 - 10:00

ROLF D. HUBMAYR (Mayo Clinic, Rochester, U.S.A.)
“Epithelial Cell Rescue Therapies in Acute Lung Injury”

10:00 - 11:15

Student Presentations:

ACUTE LUNG INJURY

11:15 - 11:45

Coffee and snacks

11:45 - 12:45

Student Presentations

LUNG CANCER

12:45 - 14:00

Lunch

14:00 - 14:45

RONALD G. CRYSTAL (Weill Cornell Medical College, New York, U.S.A.)
“The Healthy Smoker is Not Healthy: Smoking-induced Reprogramming of Airway Epithelial Basal/Progenitor Cells”

14:45 - 15:30

Student Presentations

LUNG INFLAMMATION I

15:30 - 17:30

Group photograph

“Meet-the-Professor” sessions (current and incoming MBML students only), with coffee & snacks

17:30 - 18:30

The Nobel Lecture

by **SYDNEY BRENNER** (Scripps Institute, La Jolla, U.S.A.)
“MAN, the next model organism “

18:30 - end

Dinner and Drinks

TUESDAY, 07.08.2012

07:30 - 09:00

Breakfast

09:00 - 09:45

PAUL M. HASSOUN (Johns Hopkins, Baltimore, U.S.A.)

“Cardiovascular Features of Scleroderma-Associated Pulmonary Arterial Hypertension”

09:45 - 11:00

Student Presentations:

PULMONARY VASCULAR DISEASE

11:00 - 11:30

Coffee and snacks

11:30 - 12:15

JASON X. YUAN (University of Illinois at Chicago, U.S.A.)

“Pathogenic Mechanisms of Pulmonary Arterial Hypertension: Role of CaSR and TRPC6”

12:15 - 13:30

Student Presentations:

LUNG DEVELOPMENT

13:30 - 15:00

Lunch

15:00 - 15:45

RONALD G. CRYSTAL (Weill Cornell Medical College, New York, U.S.A.)

“What Do You Want to Know About Your Genome?”

15:45 - 17:45

Poster Presentation Session, with coffee and snacks

17:45 - 18:30

ROBIN COOK (Boston and Miami)

“Mass Media and Medicine”

18:30 - end

Dinner and Drinks

WEDNESDAY, 08.08.2012

07:30 - 09:00

Breakfast

09:00 - 09:45

CARA J. GOTTARDI (Northwestern University, Chicago, U.S.A.)
“Wnt/ β -Catenin Signalling in Lung Injury and Fibrosis”

09:45 - 11:00

Student Presentations:

LUNG FIBROSIS

11:00 - 11:30

Coffee and snacks

11:30 - 12:15

GÖKHAN M. MUTLU (Northwestern University, Chicago, U.S.A.)
“Mechanisms of particulate matter induced lung inflammation and thrombosis”

12:15 - 13:15

Student Presentations:

LUNG INFLAMMATION II

13:15 - 13:30

Formal closing of the Retreat: Rory E. Morty and Werner Seeger

13:30 - 14:30

Lunch

14:45

Bus Departure from Rauschholzhausen to Giessen
Meeting Point: Parking Lot of the Castle 14:30

A) ACUTE LUNG INJURY

Monday, August 6th, at 10:00

Chairs: Anja Schmall and Balachandar Selvakumar

10:00 - 10:15: Nieves Gabrielli (PI: István Vadász)

“Effects of high CO₂ levels on Na,K-ATPase stability and epithelial cell adhesion in the alveolar epithelium”

10:15 - 10:30: Anja Buchbinder (PI: Konstantin Mayer)

“Regulation of VEGF expression during acute lung injury”

10:30 - 10:45: Christin Becker (PIs: Susanne Herold and Jürgen Lohmeyer)

“Influenza-virus infection impacts on alveolar oedema clearance: role of virus- and host factors in regulation of alveolar epithelial cell ENaC and Na,K-ATPase expression”

10:45 - 11:00: Marco Schlappkohl (PI: Konstantin Mayer)

“The role of miRNAs in the resolution of acute lung injury”

11:00 - 11:15: Jennifer Quantius (PIs: Susanne Herold and Jürgen Lohmeyer)

“The role of the FGF10/FGFR2b axis in epithelial repair following severe influenza pneumonia”

B) LUNG CANCER

Monday, August 6th, at 11:45

Chairs: Hamza Al-Tamari and Alicia Madurga-Hernández

11:45 - 12:00: Anja Schmall (PI: Rajkumar Savai)

“Functional and molecular characterization of macrophage-tumour cell communication”

12:00 - 12:15: Mirka Didiasova (PIs: Małgorzata Wygrecka and Klaus Preissner)

“Ca²⁺ dependent transport of enolase-1 to the cell surface: impact on tumour cell invasion”

12:15 - 12:30: Hanna Jacobsson (PI: Angela Risch, *DZL Partner Site Heidelberg*)

“Epigenetic regulation of potential CNV risk loci in lung cancer”

12:30 - 12:45: Alina Asafova (PI: Rajkumar Savai)

“Role of circulating fibrocytes in the lung cancer”

C) INFLAMMATION I

Monday, August 6th, at 14:45

Chairs: Sylwia Skwarna and Cho-Ming Chao

14:45 - 15:00: Florian Uhle (PI: Markus Weigand)

“The receptor for advanced glycation end-products in systemic inflammation”

15:00 - 15:15: James (Jimmy) Nolin (PI: Yvonne Janssen-Heininger, *University of Vermont*)

“Redox-based control of Interleukin-17 signalling in lung epithelial cells”

15:15 - 15:30: Aichurek Soultanova (PI: Wolfgang Kummer)

“GRP, adrenomedullin and intermedin attenuate inflammation and pathogen clearance by alveolar macrophages”

D) PULMONARY VASCULAR DISEASE

Tuesday, August 7th, at 09:45

Chairs: Daniel von der Beck and Christin Becker

09:45 - 10:00: Anuar Kalymbetov (PI: Ralph T. Schermuly)

“Role of JAK/STAT signalling in pulmonary vascular remodelling in pulmonary arterial hypertension”

10:00 - 10:15: Svenja Tiede (PIs: Ralph T. Schermuly and Soni Pullamsetti)

“Screening for biomarkers in pulmonary hypertension”

10:15 - 10:30: Patrick Crosswhite (PI: Zhongjie Sun, *University of Oklahoma*)

“Mechanisms of Cold-Induced Pulmonary Hypertension”

10:30 - 10:45: Christin Ritter (PI: Ralph T. Schermuly)

“An experimental model of pulmonary hypertension due to schistosomiasis infection”

10:45 - 11:00: Prakash Chelladurai (PI: Soni Pullamsetti)

“Epigenetic histone modifications in pulmonary hypertension”

E) LUNG DEVELOPMENT

Tuesday, August 7th, at 12:15

Chairs: Anuar Kalymbetov and Tatyana Likhoshvay

12:15 - 12:30: [Elie El Agha](#) (PI: Saverio Bellusci)

“Fibroblast Growth Factor 10 and lineage commitment in the embryonic mouse lung”

12:30 - 12:45: [Gero Nieß](#) (PI: Rory E. Morty)

“Accessory TGF- β receptors in the pulmonary vasculature”

12:45 - 13:00: [Peter Rauschkolb](#) (PI: Robert Voswinckel)

“Molecular mediators of compensatory lung growth”

13:00 - 13:15: [Elpidoforos \(Akis\) Sakkas](#) (PI: Rory E. Morty)

“MicroRNA regulation of late lung development”

13:15 - 13:30: [Cho-Ming Chao](#) (PI: Saverio Bellusci)

“The role of FGF10 in bronchopulmonary dysplasia”

F) LUNG FIBROSIS

Wednesday, August 8th, at 09:45

Chairs: Florian Uhle and Dagmar Schulte

09:45 - 10:00: [Sylwia Skwarna](#) (PI: Andreas Günther)

“Role of Bcl-xL in hepatocyte growth factor elicited epithelial protection in lung fibrosis”

10:00 - 10:15: [Hamza Al-Tamari](#) (PI: Soni Pullamsetti)

“Role of FoxO3a transcription factor in lung fibrosis”

10:15 - 10:30: [Gani Orquaj](#) (PI: Eveline Baumgart-Vogt)

“The role of peroxisomes in idiopathic pulmonary fibrosis”

10:30 - 10:45: [BreAnne Mackenzie](#) (PI: Saverio Bellusci)

“The role of FGFR2b in lung fibrosis”

10:45 - 11:00: [Daniel von der Beck](#) (PI: Andreas Günther)

“Effect of TLR5 on pulmonary fibrosis”

G) INFLAMMATION AND INFLAMMATORY MEDIATORS

Wednesday, August 8th, at 12:15

Chairs: Saket Ahuja and Jennifer Quantius

12:15 - 12:30: [Sabine Bartel](#) (PI: Krauss-Etschmann, *DZL partner Munich*)

“miRNA-regulated signalling pathways in the murine asthma model”

12:30 - 12:45: [Sebastian Marwitz](#) (PI: Torsten Goldmann, *DZL Partner Borstel*)

“From bench to...?: Bambi as a novel player in lung diseases.”

12:45 - 13:00: [Yu-Han Yuan](#) (PI: Heinrich Sauer)

“Leukotrienes in vasculogenesis of embryonic stem cells”

13:00 - 13:15: [Napur Aggarwal](#) (PI: Sabina Janciauskiene, *DZL partner Hannover*)

“Upregulated expression of Kruppel like Zinc finger proteins in end stage COPD lungs with ZZ alpha1-antitrypsin deficiency”

Speaker Introductions

Sydney Brenner by Elpidoforos (Akis) Sakkas

Robin Cook by Gero Niess

Ronald Crystal by Elie El Agha

Cara Gottardi by BreAnne Mackenzie

Paul Hassoun by Svenja Tiede

Rolf Hubmayer by Nieves Gabrielli

Gökhan Mutlu by Christin Ritter

Jason Yuan by Monika Malczyk

Poster Presentations:

Poster board number	Presenter (Monday)
1	Saket Ahuja
2	Adriana Contreras
3	Azadeh Efsandiary
4	Oleksiy Klymenko
5	Elisabetta Gamen
6	Anita Golec
7	Tatyana Likhoshvay
8	Alicia Madurga Hernández
9	Alena Moiseenko
10	Monika Malczyk
11	Matthew Robson
12	Dagmar Schulte
13	Balachandar Selvakumar
14	Žaneta Sibinska

Meet-the-Professor session allocations:

Sydney Brenner

Akis Sakkas
Tatyana Likhoshvay
Anja Buchbinder
Daniel von der Beck
James Nolin
Hamza Al-Tamari

Robin Cook

Gero Nieß
Cho-Ming Chao
Peter Rauschkolb
Adriana Contreras
Anja Schmall
Saket Ahuja

Ronald Crystal

Elie El Agha
Napur Aggarwal
Florian Uhle
Alina Asafova
Aichurek Soultanova
Anita Golec

Cara Gottardi

Hanna Jacobsson
BreAnne Mackenzie
Sylwia Skwarna
Gani Orquaj
Žaneta Sibinska
Oleksiy Klymenko

Paul Hassoun

Svenja Tiede
Matthew Robson
Prakash Chelludurai
Yu-Han Yuang
Dagmar Schulte

Rolf Hubmayer

Nieves Gabrielli
Marco Schlappkohl
Christin Becker
Jennifer Quantius
Balachandar Selvakumar
Alicia Madurga-Hernández

Gökhan Mutlu

Sabine Bartel
Sebastian Marwitz
Christin Ritter
Alena Moiseenko
Mirka Didiasova

Jason Yuan

Patrick Crosswhite
Monika Malczyk
Anuar Kalymbetov
Elisabetta Gamen
Azadeh Efsandiary