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 Rauischholzhausen 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 Rauischholzhausen 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 CO$_2$ 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 edema 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: Malgorzata Wygrecka and Klaus Preissner)  
“Ca$^{2+}$ 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:

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

Meet-the-Professor session allocations:

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

Cara Gottardi
Hanna Jacobsson
BreAnne Mackenzie
Sylwia Skwarna
Gani Orquaj
Żaneta Sibinska
Oleksiy Klymenko

Gökhan Mutlu
Sabine Bartel
Sebastian Marwitz
Christin Ritter
Alena Moiseenko
Mirka Didiasova

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

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

Jason Yuan
Patrick Crosswhite
Monika Malczyk
Anuar Kalymbetov
Elisabetta Gamen
Azadeh Efsandiary

Ronald Crystal
Elie El Agha
Napur Aggarwal
Florian Uhle
Alina Asafova
Aichurek Sultanova
Anita Golec

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