Welcome to the 9th Annual Retreat
of the
International Graduate Programme
Molecular Biology and Medicine of the Lung

Rauischholzhausen, Germany
June 20-22, 2011
MONDAY, 20.06.2011

Up to 10:00
Arrival at the Rauischholzhausen Castle, Registration

10:00 – 10:15
Welcome and Introduction: Rory E. Morty and Werner Seeger

10:15 – 11:00
NAVDEEP S. CHANDEL (Northwestern University, Chicago, U.S.A.)
“Mitochondria as signalling organelles”

11:00 - 12:15
Student Presentations:
PULMONARY VASCULAR DISEASE I

12:30 -14:00
Lunch

14:00 - 14:45
LYNN M. SCHNAPP (University of Washington, Seattle, U.S.A.)
“Insights into acute lung injury from proteomic analysis”

14:45 - 15:45
Student Presentations
ACUTE LUNG INJURY AND SEPSIS

15:45 - 16:15
Coffee Break

16:15 - 17:15
Student Presentations
LUNG FIBROSIS

17:15 - 18:15
The Nobel Lecture
by Professor Peter C. Doherty (University of Melbourne, Melbourne, Australia)
“Influenza: immunity and immunopathology“

18:15 - end
Dinner and Drinks
TUESDAY, 21.06.2011

07:30 - 09:00
Breakfast

09:00 – 10:00
Student Presentations

PULMONARY VASCULAR DISEASE II

10:00 – 10:45
JEFFREY M. DRAZEN (Harvard University, Boston, U.S.A.)
“Publishing in a high impact journal: editorial policies at the New England Journal of Medicine”

10:45 - 12:30
Poster Presentation Session

12:30 - 14:00
Lunch

14:00 – 14:45
ALISON HISLOP (University College London, London, U.K.)
“Early lung development – clues for regeneration”

14:45 - 16:00
Student Presentations

LUNG DEVELOPMENT

16:00 - 18:00
Group photograph
Meet-the-Professor sessions

18:00 - 18:45
LARISSA SHIMODA (Johns Hopkins University, Baltimore, U.S.A.)
“HIF and the pulmonary vasculature”

18:45 – 19:30
JOHN B. WEST (University of California at San Diego, San Diego, U.S.A.)
“A shortage of oxygen: Lessons from the summit of Mt Everest”

19:30 - end
Dinner and Social Programme
WEDNESDAY, 22.06.2011

07:30 - 09:00
Breakfast

09:00 – 09:45
PETER J. BARNES (Imperial College, London, U.K.)
“New mechanisms and therapeutic targets in COPD”

09:45 – 10:30
Student Presentations
COPD AND EPITHELIAL STRESS

10:30 – 11:00
Coffee Break

11:00 – 11:45
KENNETH B. ADLER (North Carolina State University, Raleigh, U.S.A.)
“MARCKS protein and mucin secretion: From bench to bedside”

11:45 – 12:45
Student Presentations
TRACHEA, MACROPHAGES AND CANCER

12:45 - 13:00
Formal closing of the Retreat: Rory E. Morty and Werner Seeger

13:00 – 14:30
Lunch

14:45
Bus Departure from Rauischholzhausen to Giessen
Meeting Point: Parking Lot of the Castle 14:30
A) PULMONARY VASCULAR DISEASE I  
Monday, June 20th, at 11:00  
Chairs: Gero Niess and Daniel von der Beck

11:00 - 11:15:  Florian Veit (PI: Norbert Weißmann)  
“Vascular remodelling in monocrotaline-induced pulmonary hypertension is partially driven by elevated NOX1 activity”

11:15 - 11:30:  Chandran Nagaraj (PI: Andrea Olschewski, Medical University of Graz)  
“Role of SRC family tyrosine kinase in the response of potassium channels in human pulmonary artery smooth muscle cells to hypoxia”

11:30 - 11:45:  Friederike Weisel (PI: Grażyna Kwapiszewska, Ludger Fink, & Norbert Weißmann)  
“Reverse remodelling in pulmonary hypertension: impact of AMD-1”

11:45 - 12:00:  Slaven Crnkovic (PI: Andrea Olschewski, Medical University of Graz)  
“DHA-induced oxidative stress activates apoptosis and decreases proliferation of pulmonary artery smooth muscle cells”

12:00 - 12:15:  Christine Veith (PI: Grażyna Kwapiszewska and Norbert Weißmann)  
“The novel Fhl-1 interacting protein paxillin involved in the pathogenesis of pulmonary hypertension”

B) ACUTE LUNG INJURY AND SEPSIS  
Monday, June 20th, at 14:45  
Chairs: Nieves Gabrielli and Anja Buchbinder

14:45 - 15:00:  Benno Grzesik (PI: István Vadász)  
“Regulation of alveolar epithelial sodium transport by elevated CO₂ levels”

15:00 - 15:15:  Łukasz Wujak (PI: Rory E. Morty)  
“Epigenetic control of lung fluid clearance”

15:15 - 15:30:  Florian Uhle (PI: Markus Weigand)  
“Regulation of the receptor for advanced glycation endproducts (RAGE) in human sepsis”

15:30 - 15:45:  James Londino (PI: Sadis Matalon, University of Alabama at Birmingham)  
“Inhibition of cystic fibrosis transmembrane conductance regulator activity by the influenza M2 proton channel”
C) LUNG FIBROSIS  
**Monday, June 20th, at 16:15**  
**Chairs: Florian Uhle and Sylwia Skwarna**

16:15 - 16:30: Hamza al-Tamari (PI: Soni Pullamsetti and Ardeschir Ghofrani)  
“The role of forkhead box group O (FoxO) in pulmonary fibrosis”

16:30 - 16:45: Daniel von der Beck (PI: Andreas Günther and Philipp Markart)  
“Impact of toll-like receptor 5 on lung fibrosis”

16:45 - 17:00: Katarzyna Piskulak (PI: Andreas Günther)  
“Regulation and role of the notch signalling pathway in progenitor cell differentiation and proliferation in the normal and the fibrotic lung”

17:00 - 17:15: Luai Huleihel (PI: Naftali Kaminski, University of Pittsburgh)  
“Can epithelial miRNA change fibroblasts phenotype?”

D) PULMONARY VASCULAR DISEASE II  
**Tuesday, June 21st, at 09:45**  
**Chairs: Florian Veit and Friederike Weisel**

09:45 - 10:00: Svenja Tiede (PI: Ralph Schermuly)  
“Screening for biomarkers in pulmonary hypertension”

10:00 - 10:15: Himal Luitel (PI: Ardeschir Ghofrani)  
“Role of mast cells in right ventricular remodelling in a murine model of right ventricular pressure overload-induced hypertrophy”

10:15 - 10:30: Christin Baumann (PI: Soni Pullamsetti and Ralph T. Schermuly)  
“An experimental model of pulmonary hypertension: Schistosoma mansoni infection”

10:30 - 10:45: Kabita Pradhan (PI: Ardeschir Ghofrani)  
“Therapeutic strategies in pulmonary hypertension due to left heart failure”
E) LUNG DEVELOPMENT
Tuesday, June 21st, at 14:45
Chairs: Elpidoforos Sakkas and Daria Szerlowska

14:45 - 15:00: Elie El Agha (PI: Saverio Belluscì)
“Validation of Fgf10Cre-ERT2 mouse line”

15:00 - 15:15: Gero Nieß (PI: Rory E. Morty)
“Accessory TGF-β receptors in the pulmonary vasculature”

15:15 - 15:30: BreAnne Mackenzie (PI: Saverio Belluscì)
“The role of growth factors in lung remodelling”

15:30 - 15:45: Peter Rauschkolb (PI: Robert Voswinckel)
“Elastic fiber assembly and initiation of compensatory lung growth”

15:30 - 15:45: Jenifer Nichols (PI: Steven Kleeberger, National Institutes of Health)
“Genetic mechanisms of neonatal oxygen toxicity: A murine model of bronchopulmonary dysplasia”

F) COPD AND EPITHELIAL CELL STRESS
Wednesday, June 22nd, at 09:45
Chairs: Marco Schlappkohl and BreAnne Mackenzie

09:45 - 10:00: Katrin Milger (PI: Norbert Weißmann)
“Role of Th1 lymphocytes and the transcription factor Tbet for chronic inflammation in a COPD animal model”

10:00 - 10:15: Alexandra Pichl (PI: Norbert Weißmann)
“The effect of Terguride on tobacco smoke-induced emphysema in mice”

10:15 - 10:30: Sylwia Skwarna (PI: Andreas Günther)
“Hepatocyte growth factor and urokinase in mediating epithelial cell protective effects: role of Bel-xL induction”
G) TRACHEA, MACROPHAGES AND CANCER

Wednesday, June 22nd, at 11:45
Chairs: Nefertiti El Nikhely and Monika Hollenhorst

11:45 - 12:00: Monika Hollenhorst (PI: Martin Fronius and Wolfgang Clauß)  
“Nicotinic ACh receptors in mouse tracheal epithelium: hints for „metabotropic“ receptor subtypes”

12:00 - 12:15: Name withheld from public release (PI: Wolfgang Kummer)  
“Autocrine signalling by peptides of the calcitonin family in alveolar macrophages”

12:15 - 12:30: Anja Schmall (PI: Rajkumar Savai and Friederich Grimminger)  
“Functional and molecular characterisation of macrophage-tumor cell communication”

12:30 - 12:45: Pavan Pamarthi (PI: Ralph Schermuly)  
“Role of prostanoid signalling in lung cancer”

Speaker Introductions

Kenneth B. Adler by Katarzyna Piskulak
Peter J. Barnes by Elie El Agha
Navdeep S. Chandel by Nefertiti El Nikhely
Peter C. Doherty by Anuar Kalymbetov
Jeffrey M. Drazen by Katrin Milger
Alison Hislop by BreAnne Mackenzie
Lynn M. Schnapp by Benno Grzesik
Larissa Shimoda by Florian Veit
John B. West by Anja Buchbinder
**Poster Presentations:**

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<tr>
<th>Poster board number</th>
<th>Presenter (Monday)</th>
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<tr>
<td>1</td>
<td>Karen Arakelyan</td>
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<td>Alina Asafova</td>
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<td>Christin Becker</td>
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<td>Daria Szerlowska</td>
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**Meet-the-Professor session allocations:**

- **Kenneth B. Adler**
  - Hollenhorst
  - Pamarthi
  - Piskulak
  - Asafova
  - El Nikhely
  - Ahuja

- **Peter J. Barnes**
  - Milger
  - Pichl
  - Oruqaj
  - al-Tamari
  - von der Beck
  - Schwartz
  - Nichols

- **Navdeep Chandel**
  - Veit
  - Veith
  - Nieß
  - Kalymbetov
  - Tiede
  - Nave
  - Nagaraj

- **Peter C. Doherty**
  - Wujak
  - Becker
  - Gabrielli
  - Schlappkohl
  - Crnkovic
  - Huleihel
  - Likhoshvay

- **Alison Hislop**
  - Chao
  - Sakkas
  - Szerlowska
  - El Agha
  - Klein
  - Rauschkolb
  - Weisel

- **Lynn Schnapp**
  - Grzesik
  - Buchbinder
  - Didiasova
  - Quantius
  - Londino
  - Mücke
  - Klymenko

- **Larissa Shimoda**
  - Luitel
  - Arakelyan
  - Chelladurai
  - Huang
  - Baumann

- **John B. West**
  - Szczesniak
  - Schmall
  - Mackenzie
  - Skwarna
  - Pradhan
  - Uhle