

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 Rauschholzhausen 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 Rauschholzhausen 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 Bellusci)

“Validation of *Fgf10*^{Cre-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 Bellusci)

“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 Bcl-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:

Poster board number	Presenter (Monday)
1	Karen Arakelyan
2	Alina Asafova
3	Christin Becker
4	Anja Buchbinder
5	Cho-Ming Chao
6	Prakash Chelludurai
7	Mirka Didiasova
8	Nefertiti El Nikhely
9	Nieves Gabrielli
10	Yu-Han Huang
11	Anuar Kalymbetov
12	Gani Oruqaj
13	Jennifer Quantius
14	Elpidoforos Sakkas
15	Marco Schlappkohl
16	Paweł Szczeńniak
17	Daria Szerlowska

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

Szczeńniak
Schmall
Mackenzie
Skwarna
Pradhan
Uhle