

**INNATE IMMUNITY OF THE LUNG -
IMPROVING PNEUMONIA OUTCOME**

WEDNESDAY, 14-SEP-2016

Postgraduate Workshop on „High-End Light Microscopy and Digital Image Analysis”

THURSDAY, 15-SEP-2016

09:00	Opening and Welcome	Norbert Suttrop (Germany)
1. Medical needs in pneumonia		
09:15	Unmet needs in severe CAP - can we reduce mortality and morbidity?	Antoni Torres (Spain)
09:45	Pneumonia and extrapulmonary co-morbidities – a bilateral relationship	Tobias Welte (Germany)
10:15	Evolution and ecology of MERS and other human coronaviruses	Christian Drosten (Germany)
10:45	Coffee break	
2. Pathogen sensing		
11:15	Role of inflammasomes in pathogen and danger sensing	Eicke Latz (Germany)
11:45	Mechanisms of innate sensing and cell-autonomous defense in infections with <i>Legionella pneumophila</i>	Bastian Opitz (Germany)
12:15	New aspects of influenza virus interference with innate immune signaling	Stephan Ludwig (Germany)
12:45	Lunch Poster Presentation (even numbers) and Industrial Exhibition	
3. Maintenance of the pulmonary barrier		
14:15	The mobile mucus barrier of the airway	Burton F Dickey (USA)
14:45	Implications of the microbiota in airway inflammatory responses	Benjamin Marsland (Switzerland)
15:15	Endothelial barrier regulation in lung inflammation	Wolfgang M Kübler (Germany/ Canada)
15:45	Coffee break	
4. Key effector cells of pulmonary immunity		
16:15	Epithelial cells in innate immunity of the lung	Joseph P Mizgerd (USA)
16:45	Neutrophils in host defense and disease	Venizelos Papayannopoulos (UK)
17:15	Imaging alveolar immunity	Jahar Bhattacharya (USA)
17:45	Break and snacks	
18:30	Leopoldina Evening Lecture: Immunosurveillance in the lung: avoiding infection and malignancy	Guido Kroemer (France)

FRIDAY, 16-SEP-2016

5. Checkpoints in innate immunity		
09:00	Metabolic regulation of innate immunity	Navdeep S Chandel (USA)
09:30	Trained immunity: a memory for innate host defenses	Mihai G Netea (The Netherlands)
10:00	Regulation of lung immunity in homeostasis and disease	Sylvia Knapp (Austria)

10:30 Coffee break

Community-acquired pneumonia - Science and Society Session of the Schering Foundation

11:00	Epidemiology and demography	Antoni Torres (Spain)
11:20	Pneumonia in developing countries	Thomas Zoller (Germany)
11:40	Synthetic sugar vaccines	Peter H Seeberger (Germany)
12:00	Blocking Pathogen Uptake	Rainer Haag (Germany)
12:20	Discussion of sociological, philosophical, ethical aspects of CAP and perspectives of modern therapies	<u>Moderation:</u> Detlev Ganten (Germany)

13:00 Photo session and Lunch
Poster Presentation (odd numbers) and Industrial Exhibition

14:45 Short talks selected from poster abstracts

15:50 Coffee break

6. Damage, resolution, repair

16:20	Pneumococci and the heart	Marcos Restrepo (USA)
16:50	Cell-cell interactions during pathogen-induced injury resolution and repair	Susanne Herold (Germany)
17:20	Mesenchymal Stem (Stromal) Cells: Biology and Potential Therapy for ARDS	Michael A Matthay (USA)

18:00 Concert with JazzVocals

18:50 Poster Awards

19:00 Get together

SATURDAY, 17-SEP-2016

7. Adjunct therapies: Going beyond antibiotics

09:00	Inducible Innate Resistance	Burton F Dickey (USA)
09:30	Pulmonary macrophage transplantation as new therapeutic concept	Gesine Hansen (Germany)
10:00	Avoiding lung injury in pneumonia	Martin Witzenrath (Germany)

10:30 Coffee break

8. Systems medicine

11:00	CAP and systems medicine (CAPSyS)	Markus Löffler (Germany)
11:30	The road from systems medicine to precision medicine	Erwin Böttinger (Germany)
12:00	Closing	Norbert Suttrop (Germany)

12:15 Coffee and snacks

We are looking forward to welcoming you to our conference in the historic center of Berlin!

Time for talks: topics+discussion: 20+10 min, evening lecture: 60 min, best abstracts: 15+5 min

Registration: start at 8:30 a.m. every days in the foyer

Venue: Berlin-Brandenburg Academy of Sciences, Markgrafenstraße 38, 10117 Berlin-Gendarmenmarkt