Important facts

Date and time
January 19 and 20, 2017
Start: 9:15 h on January 19
End: ca. 16:30 h on January 20

Venue
Clinical Research Center Hannover
Feodor-Lynen-Str. 15, 30625 Hannover, Germany
www.crc-hannover.de

Registration
Online at http://www.item.fraunhofer.de
Registration deadline: January 9, 2017
Abstract submission deadline: December 15, 2016

Registration fee
200 euros for TRAIN members
250 euros for participants from academia
350 euros for participants from industry
50 euros additional charge for late registrants (registration after January 9, 2017)
The fee includes coffee breaks and lunch on both days and dinner on the first day.

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How to get to the CRC Hannover

The CRC Hannover is located east of the city center, in Hannover’s Medical Park, and can easily be reached by car via the express highway A 37 (“Messeschnellweg”).

Public transport is also available: If you fly into Hannover, a suburban train takes you directly from the airport to Hannover main train station (“Hauptbahnhof”) in 17 minutes. From the main train station, there are two different routes available to travel by underground and then by bus to the bus stop “Nobelring”, from where you can walk to the CRC Hannover in less than 10 minutes. Next to this bus stop, you will also find two of the hotels we recommend to workshop participants because of their proximity to the workshop venue: the Mercure Hotel Hannover Medical Park and the ibis Hannover Medical Park.

If you choose to take a taxi when you arrive in Hannover, please note that a ride from Hannover airport to the CRC Hannover will take at least 25 minutes, and from the main train station between 15 and 30 minutes, depending on the time of the day.

For more detailed information on how to reach the workshop venue by car or public transport, please click on “Contact” on the CRC Hannover homepage (www.crc-hannover.de).
MODELS OF LUNG DISEASE

Lung diseases such as asthma, COPD, lung infection, fibrosis, and tumors are major health problems in western societies. Translational research aims to develop a better understanding of the disease mechanisms in order to implement predictive disease models, which are the essential prerequisite for the development of new therapies.

It is the aim of this 16th Fraunhofer seminar “Models of Lung Disease”, organized by Fraunhofer ITEM in cooperation with the German Center for Lung Research (DZL), to discuss the current possibilities of experimental lung research and compare different models and experimental approaches. Each disease area will be addressed in selected presentations covering different phases of translational research: from basic research via preclinical models to early-phase clinical studies. In addition, methodological aspects including imaging and biomarker development have also been included. Leading experts in translational lung research from academia and industry will present their thoughts and concepts for translational lung research.

The workshop will be held in the Clinical Research Center Hannover (CRC Hannover), the proof-of-concept center for early-phase clinical trials operated by the three partners Fraunhofer ITEM, Hannover Medical School, and Helmholtz Center for Infection Research. Thanks to the spacious conference facilities of the CRC Hannover, the seminar will offer the possibility to accompany the two-day program of lectures by scientific posters and an additional product exhibition. For further details, booth reservation and online registration, please refer to www.item.fraunhofer.de or send an e-mail to lung.ws@item.fraunhofer.de.

The workshop is open to all interested persons from industry, academia, and authorities.

About this seminar

16th Fraunhofer seminar Translational Airway Research

Program

THURSDAY, JANUARY 19, 2017

09:15 Welcome
Armin Braun, Fraunhofer ITEM, Germany
Tobias Welte, DZL/BREATH, Hannover, Germany

1. Models of Asthma
Chair: Armin Braun, Fraunhofer ITEM, Germany

09:30 Recapitulation of embryogenesis: bronchosphere generation
Matt Thomas, AstraZeneca, Sweden

10:00 Bronchodilator drug discovery: screening with force
Carla Winkler, AstraZeneca, Sweden

10:30 New biopharmaceuticals for asthma treatment
Rajita Pappu, Genentech, USA

11:00 Coffee break

11:30 Targeting TRP receptors for treatment of lung disease
Maria Belvisi, London, UK

12:00 Epithelial barrier models in asthma and allergic diseases
Cezmi A. Akdis, Davos, Switzerland

12:30 Mast cell/nerve interaction in the lung
Sharon Jiménez Delgado, Fraunhofer ITEM, Germany

13:00 Lunch

2. Models of Fibrosis
Chair: Antje Prasse, Fraunhofer ITEM, Germany

14:00 Seeing is believing! Imaging in vivo models of lung fibrosis
Chris Scotton, Exeter, UK

14:30 Treatment strategies against lung fibrosis
Oliver Nayler, Actelion, Switzerland

15:00 Coffee break

15:30 Modeling fibrotic mechanism: rodent vs human
Matt Thomas, AstraZeneca, Sweden

16:00 Recapitulation of embryogenesis: bronchosphere generation
as a disease model for drug testing
Antje Prasse, Fraunhofer ITEM, Germany

16:30 Wine & cheese poster session

17:30 Building a cluster of fibrosis models and assays to predict
the clinical efficacy of potential therapies in IPF
Sarah Brockbank, Grünenthal, Germany

18:00 Description of a pro-fibrotic biomarker pattern in
precision-cut lung slices (PCLS)
Christina Hesse, Fraunhofer ITEM, Germany

18:30 Dinner at the CRC Hannover

FRIDAY, JANUARY 20, 2017

3. Models of Lung Infection and Exacerbation
Chair: Norbert Krug, Fraunhofer ITEM, Germany

08:30 Modeling the microbiome – host interaction in animal models
Robert Bals, Homburg, Germany

09:00 Phages and lysins for pulmonary infections
Martin Wittenrath, Berlin, Germany

09:30 Towards innovative medicines for uncontrolled respiratory
diseases with PI3kdelta inhibitors
Edith Hessel, GSK, UK

10:00 Coffee break

10:30 Human rhinovirus infections and breaking of immune
tolerance
Mübeccel Akdis, Davos, Switzerland

11:00 Alveolar macrophage plasticity in COPD
Danen Cunoosamy, AstraZeneca, Sweden

11:30 Safety and efficacy of human rhinovirus-16 (U-BIOPRED)
in healthy volunteers and patients with asthma on inhaled
steroids
Jens Hohlfeld, Fraunhofer ITEM, Germany

12:00 Lunch

4. Models of COPD
Chair: Tobias Welte, Hannover, Germany

13:00 Pragmatic use of 3D lung models to evaluate exposure-induced adverse effects that may contribute to pulmonary disease
Holger Behrsing, ILVS, USA

13:30 Novel treatment options for bronchopulmonary dysplasia
Gerry T. M. Wagenaar, Leiden, The Netherlands

14:00 Coffee break

14:30 Predicting doses of novel inhaled bronchodilators for use in early clinical development studies: How do preclinical predictions equate to clinical reality?
Carol Astbury, AstraZeneca, Sweden

15:00 Cigarette smoke induces iBALT formation and subsequent
COPD development
Ali Önder Yildirim, Helmholtz Center Munich, Germany

15:30 Guided tours to Fraunhofer ITEM departments:
– PCLS – CRC Hannover
– Pathology – Lung function/IPL

16:30 End of workshop