ERS Research Seminar

New developments in in vitro models of the pulmonary epithelium

07 – 09 April 2016 – Berlin, Germany (Scientific Programme as of November 26, 2015)

Thursday, 7 April 2016

16.15 – 16.30 Welcome and Introduction

Session I: The airway epithelium in development and disease

Chair: TBC

16.30 – 17.10	Lung development: Branching morphogenesis under the microscope – Savério
	Bellusci, Germany
17.10 – 17.50	<u>Epithelial abnormalities in lung disease – what can we model</u> – Donna Davies, UK
47.50 40.30	Adams to All a literature and a second and a large Book 1964
17.50 – 18.30	Advances in ALI cultures and organoids – Jason Rock, USA

Friday, 08 April 2016

18:30 – 19:00 General discussion

Session II: in vitro models of the lung: advances in culture techniques

Chair: Adam Glangreco

08.30 - 09.10	<u>Live cell imaging in complex airway models</u> – Mattias Svensson, Sweden
09.10 - 09.25	Short presentation selected from abstracts
09.25 – 10.05	Modelling particulate uptake in primary cells – Andrew Thorley, UK
10.05 – 10.35	General discussion
10.35 – 10.55	Coffee break

Session III: Translation approaches using in vitro models

Chair: Terry Tetley

10.55 – 11.35 <u>Gene editing to repair gene mutation: the story of CFTR</u> – Jeffrey Beekman, Netherlands

- 11.35 11.50 Short presentation selected from abstracts
- 11.50 12.30 <u>Viral infections in pediatric airway cells</u> Ultan Power, UK
- 12.30 13.00 General discussion
- 13.00 14.00 *Lunch break*
- 14.00 15.15 **POSTER SESSION**

Session IV: Break out sessions

- 15.15 17.45 Three Break Out Sessions to be chosen by participants on the meeting
- 16.30 16.50 *Coffee break*
- 17.45 18.30 General discussion

Saturday, 9 April 2016

Session V: Beyond simple culture

Chairs: Colin Bingle, Reinoud Gosens

- 09.00 09.40 Micro fluid approaches to in vitro models: Lung disease on a chip TBC
- 09.40 09.55 Short presentation selected from abstracts
- 09.55 10.35 <u>Tissue engineering and lung cells from iPSCs</u> TBC
- 10.35 10.50 *Coffee break*
- 10.50 11.05 Short presentation selected from abstracts
- 11.05 11.45 Precision cut lung slices and ex vivo approaches Melanie Königshoff, Germany
- 11.45 12.15 General discussion, summary and future outlook
- 12.30 Lunch and departure