



## 7<sup>th</sup> Galenus Workshop

**“Human *in vitro* models – biology meets technology”**

**Goethe-University Frankfurt  
and  
Buchmann Institute for Molecular Life Science**

Frankfurt a/M, Germany

30<sup>th</sup> September – 2<sup>nd</sup> October 2019

Organizer: Prof. Dr. Maike Windbergs



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## Monday, 30<sup>th</sup> September

8:00-9:00      **Registration**

9:00-9:30      **Welcome Address (Dr. Sonntag and Prof. Windbergs)**

### Session 1: Lung models

9:30-10:00      Prof. Amir Ghaemmaghami (University of Nottingham)  
*"Biomimetic models of human lung for disease modelling"*

10:00-10:30      Prof. Franziska Matthäus (Frankfurt Institute for Advanced Studies)  
*"Analysis and modelling of human lung cell migration in health and disease"*

10:30-11:00      **Coffee and posters**

### Session 2: Cells and fluids

11:00-11:30      Prof. Andreas Dietzel (Technical University Braunschweig)  
*"Lab on a chip: The future of human cell and tissue assays"*

11:30-12:00      Giulia Raggi (Alveolix, Bern)  
*"Advanced microfluidic in vitro models of the alveolar barrier"*

12:00-13:30      **Lunch**

### Session 3: Skin models

13:30-14:15      **Keynote Lecture:** Prof. Joke Bouwstra (Leiden University)  
*"From cells to tissues - advances in emulating the human skin"*

14:15-14:45      Prof. Ana Melero (University of Valencia)  
*"Drug depth profiling in excised human skin"*

14:45-15:15      Dr. Alexa Patzelt (Charité Berlin)  
*"Targeting the follicular pathway: perspectives for in vitro testing"*

15:15-16:00      **Coffee and poster walk (authors @ posters, review by award committee)**

### Session 4: Selected Talks

16:00-17:30      Short talks selected from the submitted abstracts

From 17:30      **Social event and conference dinner**

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## Tuesday, 1<sup>st</sup> October

### Session 5: Blood brain barrier models

- 9:00-9:30 Prof. Thomas Durcan (McGill University, Montréal)  
*"Induced pluripotent stem cells for emulating the blood brain barrier"*
- 9:30-10:00 Dr. Sylvia Wagner (Fraunhofer Institute for Biomedical Engineering, Sulzbach)  
*"Reconstructing the blood-brain barrier for transport studies"*
- 10:00-10:30 **Coffee and Posters**

### Session 6: Intestine models

- 10:30-11:00 Dr. Brigitta Loretz (Helmholtz Institute for Pharmaceutical Research Saarland)  
*"Human in vitro models of the inflamed intestinal mucosa for drug delivery testing"*
- 11:00-11:30 Dr. Andrea Introini (Karolinska Institute, Stockholm)  
*"Patient-derived cell assays targeting inflammatory bowel diseases"*

### Session 7: Tissue models

- 11:30-12:00 Prof. Torsten Blunk (University Clinics, Würzburg)  
*"Adipose tissue engineering by mesenchymal stem cells"*
- 12:00-12:30 Dr. Annemarie Lang (Charité, Berlin)  
*„Human in vitro models for studying cartilage inflammation and repair"*
- 12:30-14:00 **Lunch**

### Session 8: Analytical techniques

- 14:00-14:30 Dr. Florian Gröber (Fraunhofer Translational Center Regenerative Therapies, Würzburg)  
*"Impedance spectroscopy for non-destructive evaluation of epithelial barriers"*
- 14:30-15:00 Dr. Marius Hittinger (Pharmbiotec GmbH, Saarbrücken)  
*"Advances for analyzing aerosol-to-cell delivery at the air-liquid interface"*
- 15:00-15:30 **Coffee**

### Session 9: Lab course contributors

- 15:30-15:50 Genoskin
- 15:50-16:10 Teledyne Hanson
- 16:10-16:30 CellInk
- 16:30-17:00 **Award ceremony and closing remarks**
- From 17:00 **Lab tours and get together**
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## Wednesday, 2<sup>nd</sup> October

### Lab courses including:

- 9:00-13:00    Module I: Tissue engineering (e.g. bioprinting, electrospinning)  
                  Module II: Human skin models and skin absorption testing  
                  Module III: Human lung models (e.g. lung-on-a-chip, inhalation testing)  
                  Module IV: Analytical techniques (e.g. impedance spectroscopy)

