



7th Galenus Workshop

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

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

Frankfurt a/M, Germany

30th September – 2nd October 2019

Organizer: Prof. Dr. Maike Windbergs and team



Monday, 30th September

8:00-9:15 **Registration**

9:15-9:45 **Welcome address (Dr. Sonntag and Prof. Windbergs)**

Session 1: Lung models

9:45-10:15 Prof. Amir Ghaemmaghami (University of Nottingham)
"Biomimetic models of human lung for disease modelling"

10:15-10:45 Prof. Franziska Matthäus (Frankfurt Institute for Advanced Studies)
"Analysis and modelling of human lung cell migration in health and disease"

10:45-11:30 **Coffee and posters**

Session 2: Skin models

11:30-12:00 Prof. Ana Melero (University of Valencia)
"Drug depth profiling in excised human skin"

12:00-12:30 Dr. Alexa Patzelt (Charité Berlin)
"Targeting the follicular pathway: perspectives for in vitro testing"

12:30-14:00 **Lunch**

Keynote lecture

14:00-14:45 Prof. Joke Bouwstra (Leiden University)
"From cells to tissues - advances in emulating the human skin"

Session 3: Cells and fluids

14:45-15:15 Giulia Raggi (Alveolix, Bern)
"Advanced microfluidic in vitro models of the alveolar barrier"

15:15-15:45 Prof. Andreas Dietzel (Technical University Braunschweig)
"Lab on a chip: The future of human cell and tissue assays"

15:45-16:30 **Coffee and poster walk (authors @ posters, review by award committee)**

Session 4: Selected talks

16:30-18:00 Short talks selected from the submitted abstracts

From 18:00 **Social event and conference dinner**

Tuesday, 1st October

Session 5: Central nervous system and blood brain barrier models

- 9:00-9:30 Prof. Thomas Durcan (McGill University, Montréal)
"New technologies for modelling disorders of the Brain in 3D"
- 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, 2nd 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)

