

# Preliminary Scientific Program

Wednesday, September 7<sup>th</sup>,  
2016, 13.00-17.50

- 13.00 - 13.05**      **Opening**  
**Johanna Brandner** (Hamburg, Germany)
- 13.05 - 14.40**      **Session 1**  
**The skin barrier: molecular mechanisms in health and disease**
- Chairs: Reiko Tanaka** (London, UK) & **Giel Tanghe** (Gent, Belgium)
- 13.05 - 13.30      Keynote lecture 1 (20 min + 5 min discussion)  
**Ryan O'Shaughnessy** (London, UK)  
Multiple functions of AKT1 in epidermal barrier function and disease
- 13.30 - 13.55      Keynote lecture 2 (20 min + 5 min discussion)  
**Paloma Perez** (Valencia, Spain)  
Nuclear receptors in skin homeostasis and disease
- 13.55 - 14.40**      **3 Short communications chosen from the abstracts**  
(12 min + 3 min discussion each)
- 13.55 - 14.10      **Andreas Elentner et al.** (Innsbruck, Austria)  
Mice humanized for PXR in the epidermis exhibit a skin barrier defect associated with a Th2/Th17 immune response, resembling atopic dermatitis
- 14.10 - 14.25      **Egon Urgard et al.** (Tartu, Estonia)  
PepFect6-miRNA-146a nanocomplexes inhibit inflammatory responses and reduce changes in the epithelial barrier in a mouse model of irritant contact dermatitis
- 14.25 - 14.40      **Erin M O'Shaughnessy et al.** (Glasgow, UK)  
A role for connexin mediated signalling in the pathogenesis of psoriasis
- 14.40 - 16.00      Coffee break + poster session

**16.00 - 17.35**

**Session 2**

**The skin barrier: locking out or letting in?**

**Chairs: Paloma Perez** (Valencia, Spain) & **TBA** (young scientist)

16.00 - 16.25

Keynote lecture 3 (20 min + 5 min discussion)

**Thomas Magin** (Leipzig, Germany)

The keratin scaffold in the epidermis

16.25 - 16.50

Keynote lecture 4 (20 min + 5 min discussion)

**Sandra Simoes** (Lisbon, Portugal)

Challenges and opportunities in topical delivery

**16.50 - 17.35**

**3 Short communications chosen from the abstracts**

(12 min + 3 min discussion each)

16.50 - 17.05

**Katja Bäsler et al.** (Hamburg, Germany)

Epidermal tight junctions are strengthened by short-term

Staphylococcal challenge in an agr dependent manner

17.05 - 17.20

**Laura CAU et al.** (Toulouse, France)

Through deimination, low environmental humidity drives human filaggrin breakdown

17.20 - 17.35

**Abdallah Mound et al.** (Namur, Belgium)

Sphingomyelin concentrates into lipid microdomains only in non-senescent cells and enhances keratinocyte migration

17.35 - 17.50

**Poster Prizes announcement**

20:00

**Social event: Schneider Bräuhaus München**

**Thursday,  
September 8<sup>th</sup>,  
2016, 8.55 -  
10.30**

**08.55 - 10.30      Session 3  
Shaping the epidermis**

**Chairs: Wim Declercq** (Gent, Belgium) & **Barbora Skolova** (Czech Republic)

08.55 - 09.20      Keynote lecture 5 (20 min + 5 min discussion)  
**Akiharu Kubo** (Tokio, Japan)  
Epidermal cell turnover across tight junctions based on Kelvin's tetrakaidecahedron cell shape

09.20 - 09.45      Keynote lecture 6 (20 min + 5 min discussion)  
**Sanja Kezic** (Amsterdam, The Netherlands)  
Corneocyte alterations in AD

**09.45 - 10.30      3 Short communications chosen from the abstracts**  
(12 min + 3 min discussion each)

09.45 - 10:00      **Hanna Niehues et al.** (Nijmegen, The Netherlands)  
Epidermal equivalents of filaggrin null keratinocytes do not show impaired skin barrier function

10.00 - 10.15      **Claudia Buerger et al.** (Frankfurt / Main, Germany)  
mTORC1 signalling serves as a switch between keratinocyte proliferation and differentiation and thereby contributes to epidermal stratification

10.15 - 10.30      **Christian Hausmann et al.** (Berlin, Germany)  
Reconstructed human skin from aged fibroblasts emulates aspects of physiological skin aging

**10.30**                      Closing of the meeting