

Meeting of the ADF Working Groups: *Atopic Dermatitis* and *Skin Barrier*

Wednesday, 11.03.2020, 14:00-18:00

Room 2036

Technical University Berlin

Straße des 17. Juni 135, 10623 Berlin

The indicated times include talk and discussion.

14:00 – 14:10 Introduction

Stephan Weidinger, Leopold Eckhart
Kiel, Vienna

14:10 – 14:25 Ceramide synthase 4 dependent epidermal lipid metabolism is a key regulator of adult epidermal barrier homeostasis

F. Peters, F. Tellkamp, S. Brodesser, E. Wachsmuth, B. Tosetti, U. Karow, W. Bloch, O. Utermöhlen, M. Krönke, C. Niessen
University of Cologne, Department of Dermatology, Institute for Medical Microbiology, Cologne Excellence Cluster on Cellular Stress Responses in Aging Associated Diseases (CECAD), Center for Molecular Medicine Cologne (CMMC); German Sport University Cologne, Department of Molecular and Cellular Sport Medicine, Cologne, Germany

14:25 – 14:40 Targeted disruption of the hornerin gene in mice causes skin barrier dysfunction

R. Zheng, Y. Wu, D. Li, J. Sheng, T. Xie, Z. Wu, U. Meyer-Hoffert
Zhejiang University of Science and Technology, Hangzhou, China; University-Hospital Schleswig-Holstein, Campus Kiel, Department of Dermatology, Kiel, Germany

14:40 – 14:55 Unravelling novel functions for mTORC2 in epidermal barrier maintenance

X. Ding, S. Willenborg, W. Bloch, S. A. Wickström, P. Wagle, S. Brodesser, A. Roers, A. Jais, J. Brüning, M. Hall, M. Rüegg, S. Eming
University of Cologne, Department of Dermatology, Center for Molecular Medicine Cologne, Cluster of Excellence Cellular Stress Responses in Aging associated Diseases; German Sport University Cologne, Cologne; Max Planck Institutes for Biology of Ageing/Metabolism Research, Cologne; University of Helsinki; TU Dresden, Institute for Immunology, Dresden; University of Basel, Biozentrum, Basel, Switzerland

14:55 – 15:10 Stratum corneum lipidomics analysis reveals altered ceramide profile in atopic dermatitis patients across body sites

H. Emmert; H. Baurecht; F. Thielking; D. Stölzl; E. Rodriguez; I. Harder; E. Proksch, S. Weidinger
Department of Dermatology, Allergology and Venereology, University Hospital Schleswig-Holstein, Campus Kiel, Germany, Department of Epidemiology and Preventive Medicine, University of Regensburg, Germany

15:10 – 15:25 The influence of the skin commensal bacterium *Staphylococcus epidermidis* on the epidermal barrier and inflammation: Implications for atopic dermatitis

D. Ochlich, F. Rademacher, R. Gläser, J. Harder
Universitätsklinikum Schleswig-Holstein, Campus Kiel, Hautklinik, Kiel, Germany

15:25 – 16:00 Coffee break

- 16:00 – 16:15 Characterisation of the skin microbiome in patients with atopic dermatitis in relation to demographic variables**
 L. Rauer, M. Bhattacharyya, P. M. Brunner, J. G. Krueger, E. Guttman-Yassky, M. Reiger, C. Traidl-Hoffmann, A. U. Neumann
UNIKA-T, Helmholtz Center Munich and Technical University Munich, Augsburg; IBE, LMU Munich; Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York; Laboratory for Investigative Dermatology, The Rockefeller University, New York, USA; CK-CARE Center for Allergy Research and Education, Davos, Switzerland
- 16:15 – 16:30 Environmental factors impacting the skin microbiome – Results from the KORA-FF4 study**
 L. Moitinho-Silva, E. Rodriguez, H. Baurecht, A. Peters, H. Schulz, D. Haller, J. Linseisen, S. Weidinger
Department of Dermatology, University Hospital Schleswig-Holstein, Campus Kiel, Institute of Clinical Molecular Biology, Christian-Albrechts-University Kiel, Institute of Epidemiology, German Research Center for Environmental Health, Neuherberg, ZIEL Institute for Food and Health, Technische Universität München, Freising, Germany
- 16:30 – 16:45 Atopic dermatitis skin transcriptome is characterised by elevated type-2 and IL17-related cytokines: a cohort study of the TREATgermany Biorepository and Molecular Profiling Core**
 L. Moebus, I. Harder, E. Rodriguez, D. Stoelzl, A. Kleinheinz, S. Abraham, A. Heratizadeh, C. Handrick, E. Haufe, T. Werfel, J. Schmitt, S. Weidinger, on behalf of the TREATgermany study group Biorepository and Bioanalysis core
Department of Dermatology, Venereology, and Allergology, University Hospital Schleswig-Holstein, Campus Kiel, Kiel, Germany
- 16:45 – 17:00 Successful treatment of Netherton syndrome with dupilumab**
 S. Blunder, R. Gruber, M. Schmuth
Department of Dermatology, Medical University Innsbruck, Austria
- 17:00 – 17:15 Challenging a paradigm: Skin sensitivity to sodium lauryl sulfate is independent of atopic diathesis**
 A. Heetfeld, T. Schill, S. Schröder, S. Forkel, V. Mahler, W. Pfützner, M. P. Schön, J. Geier, T. Buhl
University Medical Center Göttingen, Dermatology, Venereology and Allergology, Göttingen; Paul-Ehrlich-Institut, Langen; University Medical Center Marburg, Dermatology, Marburg; University Medical Center Erlangen, Dermatology, Erlangen; Information Network of Departments of Dermatology, Göttingen, Germany
- 17:15 – 17:30 Establishment of wound infection models based on ex vivo skin co-cultured with neutrophil-like cells to investigate bacteria interactions with immune cells and potential antimicrobial treatments**
 F. Rancan, J. Jurisch, S. Findikci, U. Blume-Peytavi, A. Vogt, C. Schaudinn
Charité - Universitätsmedizin Berlin, Department of Dermatology and Allergy, Berlin; Robert Koch Institute, Advanced Light and Electron Microscopy, Berlin, Germany
- 17:30 – 17:45 Immortalized keratinocytes as a model for epidermal differentiation**
 M. Jahn, D. Nayir, V. Lang, R. Kaufmann, R. Back, T. Ertongur-Fauth, C. Buerger
Clinic of the Goethe University, Department of Dermatology, Frankfurt (Main); BRAIN AG, Zwingenberg, Germany
- 17:45 – 18:00 Discussion**