



**50th Annual Meeting
of the
Arbeitsgemeinschaft
Dermatologische Forschung**

in collaboration with the
Deutsche Dermatologische Gesellschaft (DDG)

March 06-09, 2024
Duesseldorf, Germany

By March 6, 2024

**Released by the
Arbeitsgemeinschaft Dermatologische Forschung (ADF) e.V.**

Meeting Venue

**Heinrich-Heine-Universität Duesseldorf, Universitaetsstr. 1, 40225 Duesseldorf
Faculty of Mathematics and Natural Sciences, Building 23.01, Lecture Hall 3A
www.hhu.de**

**Prior and during the meeting contact the ADF office
Tel: +49 (0)30 24 62 53 16**

How to get there:

You will find the facilities constituting Heinrich Heine University (HHU) and the University Hospital (UKD) in the south of Düsseldorf, only around 3.5 km from the centre of town and the main station. See: Universität Düsseldorf: Location (hhu.de)

The university campus is a small town within a town which is why it has many stops for buses and trams. A special offer for is the Campus Timetable of the Rheinbahn. We suggest using the Rheinbahn's timetable to find the quickest way to reach your goal:

[Faculty of Mathematics and Natural Sciences](#)

Arriving by plane

Düsseldorf Rhine-Ruhr airport is one of the biggest in Europe. There is a good connection to the main station by city train (S-Bahn) and from there to the university by tram (line U79 to the final stop "*Uni-Ost / Botanischer Garten*" = University east / botanical garden).

Arriving by train

Düsseldorf main station is connected to all international long-distance train routes. Both the U79 and the 704 tram go from there directly to the university. The final stop on line U79 is "*Uni-Ost / Botanischer Garten*" = University east / botanical garden, on line 704 "*Uni-Nord / Christophstraße*" = University north / Christophstreet (marked in the [Map HHU campus and UKD](#)). Travel time from the station is around 10 or 20 minutes.

The stop "*Uni-Ost / Botanischer Garten*" = University east / botanical garden can also be reached by line U73.

Arriving by bus

The university is on the route of the following buses: 735, 827, 835 and 836. If you take the 735 or 827 you can get off at "*Universität Mensa*" (University canteen), "*Universität Mitte*" (University centre) or "*Universität Süd*" (University south). If you take the 835 or 836 you can get off at "*Universität West*" (University west), "*Universität Mitte*" (University centre) or "*Universität Süd*" (University south).

Arriving by car, from the East

The university is best reached from *Hildener Kreuz* (Hilden junction) (A 3 / A 46) via *Düsseldorf-Süd* junction (Düsseldorf south) (A 46). Leave the A 46 in the tunnel (exit *Zentrum / Universität* = centre / university). Turn left at the first traffic lights into *Universitätsstrasse* which runs through the campus.

from the West

The university is best reached from *Neuss-Süd* junction where the A 46 and A 57 merge. After the Fleher Rhine bridge take the exit *Bilk / Zentrum / Hafen / Benrath* (Bilk / centre / harbour / Benrath). Stay in the right-hand lane and follow the signs to *Benrath / Universität* (Benrath / university).

from the city centre

The university is best reached via *Corneliusstraße*, then *Witzelstraße* (follow the signs for the A46 and Wuppertal), and then turn right into *Universitätsstrasse*. Here you will find somewhere to park. Please note that all parking offenders on university premises will be towed away.

MEETING ORGANISATION

During the ADF Annual Meeting, the following working groups will meet as follows

Wednesday, March 06, 2024:

	Time	Room:
WG09: Psoriasis <i>Chairs: R. Sabat</i>	15:45-18:45	Hörsaal 3B

Thursday, March 07, 2024:

	Time	Room:
WG01: Translational Dermatological Genetics <i>Chairs: C. Has; V. Oji</i>	09:00-12:30	Hörsaal 2A
WG02: Autoimmune blistering skin diseases <i>Chair: M. Sticherling</i>	08:30-12:30	Hörssaal 2B
WG03: Dermatological Endocrinology <i>Chairs: E. Peters, J. Naetlitz</i>	09:00-12:30	Hörsaal 2C
WG04: Epidemiology & Health Service Research <i>Chair: C. Apfelbacher</i>	10:00-12:30	SR 23.21.U1.46
WG05: Experimental Allergology + Mast cells and Basophils + Pruritus Research <i>Chair: K. Hartmann, A. Kerstan, C. Zeidler</i>	09:00-12:00	Hörsaal 2D
WG06: Atopic Dermatitis + Skin Barrier <i>Chair: L. Eckhart, S. Weidinger</i>	09:30-12:30	SR 23.21.U1.48
WG07: Experimental Dermato-Oncology <i>Chairs: E. Gaffal, A. Tasdogan</i>	09:00-12:00	Hörsaal 3C
Fortsetzung WG09: Psoriasis <i>Chairs: R. Sabat</i>	09:00-10:00	Hörsaal 3B
WG08: Acne inversa <i>Chairs: K. Wolk, F. Bechara</i>	09:00-12:30	Hörsaal 3B

The program of these working group meetings, including additional details (chair, contact person, etc.) which in some cases was not available at the time of program finalisation, can be found on the **ADF Homepage** (www.adf-online.de).

The inner workings of the DFG:

13:00 – 13:30 (Hall 3A) Together with a member from the DFG-review board (Fachkollegium) Dr. Jan Christian will provide insights in the possibilities of DFG funding and the decision process of applications.

14:30 - 17:00 (Room SR 23.21.U1.46): Dr. Jan Christian of the DFG will be available to discuss individual questions in 15 minutes time slots.

About the 50th Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung

Dear Colleagues and Friends,

We would like to warmly welcome you to the 50th Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung. This year, we have received 243 abstracts out of which we have chosen 30 for oral presentations based on the recommendations of the reviewers. In addition, speakers of three *Quo Vadis Lectures* will present up-to-date topics highlighting novel avenues for future research.

As in previous years, we have a number of awards to give to outstanding scientists. The prize winners of the two main ADF-Awards, the *Egon Macher Award* and the *Paul Langerhans Award* will present their work. Additionally the ADF/ECARF Award, awards for Dermato-Oncology and Translational Research Awards as well as one award specifically dedicated to Atopic Dermatitis research will be given this year. We are grateful to all foundations and supporters to enable the ADF to award these prizes.

The posters should be presented during the entire meeting to allow for vivid discussions during the ADF meeting. All oral presentations will also be exhibited as posters to facilitate informal interactions. During the *poster sessions*, *poster walks* will be organized focussing the discussion on specific themes. The best posters nominated by the poster committee will receive a poster award at the end of the meeting.

We are looking forward to this year's workshop, which is devoted to „*The aryl hydrocarbon receptor and its relatives in skin health and disease*“. Additional highlights of this year's annual meeting are the *Guenter Goerz Memorial Lecture* and the *Guest Lecture*, which will be given by Stephan Grabbe (Mainz) and Sascha Dietrich (Duesseldorf), respectively.

The ADF steering committee would like to thank the local organizers for their outstanding preparation of the meeting. We are looking forward to hearing your latest work at what we hope will be an enjoyable, informative and memorable ADF meeting in Duesseldorf

Thank you all for your participation and for your contribution to this meeting!

Stefanie Eyerich
President

Luise Erpenbeck
Secretary

Lukas Flatz
Treasurer

The steering committee is very thankful to abstract reviewers, members of the poster committees and guides of poster walks.

Experts for abstract review

L. Bopp, Cologne	K. Kleszczinski, Muenster	S. Patzelt, Luebeck
A. Braun, Goettingen	M. Koeberle, Munich	J. Pruessmann, Luebeck
B. Eberlein, Munich	E. Koch, Erlangen	F. Rademacher, Kiel
A. Elbe-Buerger, Vienna	A. Kolios, Zurich	D. Rafei-Shamsabadi, Freiburg
J. Focken, Tuebingen	B. Lichtenberger, Vienna	R. Reschke, Hamburg
S. Frischbutter, Berlin	B. Meier-Schiesser, Zurich	S. Saluzzo, Vienna
J. Holsapple, Muenster	H. Niessner, Tuebingen	A. Tasdogan, Essen
M. Jargosch, Munich	A. Nystroem, Freiburg	

Poster walks and poster committee

During the poster sessions, the following poster walks take place:

- Adaptive Immunity (tba)
- Allergy & Atopic Dermatitis (M. Reiger)
- Cellular Biology (Z. Kurgyis)
- Bioinformatics/AI (G. Geidel)
- Innate Immunity (S. Willenborg)
- Psoriasis & Inflammatory skin diseases (P. Stadler)
- Translational Research (O. Hasan Ali)
- Tumor Biology (Andreas Braun, Magdeburg)
- Tumor Immunology (C. Franklin)

We thank *Bristol-Myers Squibb GmbH & Co.KGaA and Novartis Pharma GmbH* for their kind support.

Please meet for a poster walk at the registration desk!

All poster walkers are also members of the poster committee, which is coordinated by Matthias Reiger and Sebastian Willenborg.

Thursday, March 7, 2024

12:30-12:45 Poster mounting and registration

Sponsored Satellite Symposia with Lunch

SatS01 Lecture Hall 3A

**12:45-13:15 Immunopharmakologie der atopischen Dermatitis:
Ein aktueller Überblick**

N. Novak, Bonn

Sponsored by Almirall Hermal GmbH

SatS02 Lecture Hall 3A

**13:15-13:45 Das Bullöse Pemphigoid - Link zur Typ-2 Inflammation
Sponsored by Sanofi-Aventis Deutschland GmbH**

**13:15-13:30 Ein Fall für Zwei! Die Rolle von IL-4 & IL-13
bei entzündlichen Erkrankungen**

F. Lauffer, Munich

**13:30-13:45 Die Pathophysiologie als Schlüssel - Was wissen wir
zum Bullösen Pemphigoid?**

M. Sticherling, Erlangen

SatS03 Lecture Hall 3D

**12:45-13:15 Breaks and Brakes: Can early treatment of psoriasis
with secukinumab influence inflammatory memory
and disease modification?**

J. T. Babila, Alfter

Sponsored by Novartis Pharma GmbH

SatS04 Lecture Hall 3D

**13:15-13:30 IL-31: a dominant signaling pathway in chronic
Pruritus**

B. Homey, Duesseldorf

Sponsored by Galderma Laboratorium GmbH

SCIENTIFIC PROGRAMME

Thursday, March 7, 2024

14:00-14:10

Welcome Address

B. Homey, J. Krutmann, S. Eyerich

14:10-15:10

Oral Presentations I

Chairs: J. Hundt, S- Meller

**OP01/01 14:10
(P081)**

Deletion of both ERBB2 and ERBB3 in mouse skin affects epidermal differentiation and causes inflammatory lesions

T. Hommel, M. Schneider, M. Dahlhoff; Vienna, Leipzig

**OP01/02 14:22
(P051)**

Blocking the IL-22RA1 improves the molecular and histological signature of Atopic Dermatitis- insights from in vivo and in vitro AD models

S. Wasserer, T. Litman, J. Hebsgaard, M. Jargosch, A. Pilz, N. Garzorz-Stark, T. Biedermann, C. Blanchetot, M. Sidsel Mortensen, T. Skak-Nielsen, M. Bertelsen, K. Eyerich, F. Lauffer, B. Martel, S. Eyerich; Munich, Ballerup, Zwijnaarde, Freiburg

**OP01/03 14:34
(P127)**

ZBP1 and Mitochondrial Z-DNA Drive Autoimmune Photosensitivity

B. Klein, M. Reynolds, B. Xu, M. Gharaee-Kermani, G. Gao, C. Berthier, A. Victory, S. Estadt, C. Dobry, G. Hile, F. Ma, J. Turnier, J. Gudjonsson, M. ORiordan, M. Kahlenberg; Ann Arbor

**OP01/04 14:46
(P183)**

4-1BB and its ligand are upregulated by itch-associated cytokines and seem to mediate neuroimmune communication

C. Kritsima, V. Kupas, N. Mykicky, S. Staender, T. Luger, K. Loser; Oldenburg, Muenster

**OP01/05 14:58
(P175)**

ICER expression on NKp46-positive NK cells/ILC1 controls immunity to cutaneous leishmaniasis

X. Liu*, B. Lorenz*, D. Lukas*, M. Reibetanz*, S. Koenen-Waisman, T. Bopp, T. Bohn, A. Waisman, E. von Stebut; Mainz, Cologne

15:10-15:20

ADF Awards I

(Short presentation of awardee)

Paul Langerhans Award*

A. Yazdi, L. Erpenbeck

**The ADF thanks Amgen GmbH for the kind support.*

Thursday, March 7, 2024

15:20-15:40 Quo Vadis Lecture I
A. Tasdogan, Essen:
Targeting Metabolic Liabilities in Melanoma Metastasis
Introduction: M. Fabri

15:40-16:10 Break

16:10-16:25 Anecdotes of 50 years ADF!
Speaker: E. Christophers, Kiel

16:25-18:25 WORKSHOP
The aryl hydrocarbon receptor and its relatives in skin health and disease
Organisation/
Moderation: **B. Homey, J. Krutmann**

16:25 C. Schlapbach, Bern
AHR in the regulation of T helper cell metabolism and function

16:55 L. Garza, Baltimore
Bacteria promote hair follicle regeneration by inducing HIF-1 α signaling in keratinocytes

17:25 L. Guenin-Macé, Paris
Defective activation of AHR in Hidradenitis Suppurativa: Clues for an anti-inflammatory function of cutaneous AHR signaling

17:55 E. van den Bogaard, Nijmegen
Structure and function of AHR ligands in the treatment of inflammatory skin diseases

*We thank for the support by
FOR 5489: Understanding aryl hydrocarbon receptor (AHR) signalling in skin disorders!*

18:30-21:00 POSTER SESSION AND NETWORKING
With snacks and drinks

We Thank for the support by Lilly Deutschland GmbH.

SCIENTIFIC PROGRAMME

Friday, March 08, 2024

08:30-09:30

Oral Presentations II

Chairs: S. Saluzzo, P.-C. Stadler

**OP02/01 08:30
(P042)**

Importance of the xCT system and lipid peroxidation in systemic sclerosis.

J. Tiemann, S. Muecklich, S. Leson, M. Kneilling, R. Mehling, M. Roecken, K. Schwegmann, M. Schaefers, P. Backhaus, K. Steinbrink, V. Raker; Muenster, Mainz, Tuebingen

**OP02/02 08:42
(P161)**

Impact of mitochondrial stress in the pathogenesis of dermatomyositis

J. Steininger, L. Mlitzko, K. Fischer, S. Meisterfeld, S. Roesing, C. Guenther; Dresden

**OP02/03 08:54
(P139)**

C-type lectin receptor Dectin-2 suppresses melanoma metastases

A. Teegen, W. Pruessmann, J. Pruessmann, C. Sadik; Luebeck

**OP02/04 09:06
(P128)**

Distinct roles for barrier disruption and *S. aureus* provoking IL-13 and IL-4 to mount a type 2 immune response in a preclinical model for atopic dermatitis

I. Hoelge, S. Lekiasvili, M. Hils, Y. Amar, S. Kaesler, T. Biedermann; Munich

**OP02/05 09:18
(P044)**

Inactivation of RNase 7 by RNase inhibitor influences the inflammatory response in atopic dermatitis

F. Rademacher, A. Scheel, R. Glaeser, L. Schroeder, N. Heinemann, J. Bartels, S. Gerdes, D. Stoelz, E. Rodriguez, K. Doehner, S. Weidinger, T. Werfel, J. Harder; Kiel, Hannover

09:30-10:00

POSTER SESSION (all even poster numbers)

10:00-10:30

POSTER SESSION (all odd poster numbers)

We thank *UCB Pharma GmbH* for their kind support of the poster exhibition.

10:30-11:15

GUENTER GOERZ MEMORIAL LECTURE

S. Grabbe, Mainz

Beta-2-integrins - multi-functional adhesion molecules on leukocytes

Introduction: S. Eyerich

Friday, March 08, 2024

11:30-12:30

Oral Presentations III

Chairs: I. Helfrich, C. Schlapbach

**OP03/01 11:30
(P133)**

Type 2-mediated metabolic reprogramming regulates the macrophage-fibroblast crosstalk in skin repair

S. Willenborg, L. Keufgen, M. Krueger, H. Kashkar, A. Trifunovic, S. Eming; Cologne

**OP03/02 11:42
(P013)**

Single-cell spatial proteomics identifies the JAK/STAT pathway as a target in Toxic Epidermal Necrolysis

T. Nordmann, H. Anderton, A. Hasegawa, L. Schweizer, P. Zhang, P. Stadler, A. Sinha, A. Metousis, F. Rosenberger, M. Zwiebel, T. Satoh, F. Anzengruber, M. Tanzer, Y. Saito, T. Gong, M. Thielert, H. Kimura, N. Silke, E. Rodriguez, R. Gaetana, H. Nguyen, A.; Martinsried, Bavaria, Zurich, Melbourne, Niigata, Fujian, Munich, Chur, Martinsried, Créteil, Copenhagen

**OP03/03 11:54
(P110)**

Role of neutrophil extracellular traps in Epidermolysis bullosa acquisita

S. Murthy, M. Thieme, M. Mueller, L. Kroeger, P. Schilf, C. Sadik; Luebeck

**OP03/04 12:06
(P053)**

The antimicrobial peptide RNase 7 induces the expression and secretion of the pro-inflammatory cytokine IL-6 by keratinocytes

S. Chopra, J. Siegl, V. Kopfnagel, S. Wagenknecht, J. Harder, T. Werfel, K. Doehner; Hannover, Kiel

**OP03/05 12:18
(P217)**

Cutaneous squamous cell carcinoma patients harbour keratin 14 reactive T cells

B. Balciunaite, V. Walter, M. Wacker, M. Kilic, A. Jochum, M. Purde, H. Niessner, M. Abdou, M. Levesque, T. Sinnberg, J. Waltz, L. Flatz; Tuebingen, St. Gallen, Zuerich

12:30-13:30

Lunchbreak

13:00 – 13:30

The inner workings of the DFG:

Together with a member from the DFG-review board (Fachkollegium) Dr. Jan Christian will provide insights in the possibilities of DFG funding and the decision process of applications.

14:30 - 17:00 (Room tba): Dr. Jan Christian of the DFG will be available to discuss individual questions in 15 minutes time slots.

Friday, March 08, 2024

13:30-14:30 Poster Walks

- Adaptive Immunity (tba)
- Allergy & Atopic Dermatitis (M. Reiger)
- Cellular Biology (Z. Kurgyis)
- Bioinformatics/AI (G. Geidel)
- Innate Immunity (S. Willenborg)
- Psoriasis & Inflammatory skin diseases (P. Stadler)
- Translational Research (O. Hasan Ali)
- Tumor Biology (Andreas Braun)
- Tumor Immunology (C. Franklin)

We thank *Bristol-Myers Squibb GmbH & Co.KGaA* and *Novartis Pharma GmbH* for their kind support.

Please sign up for a poster walk at the registration desk. The meeting point will also be there.

14:30-15:30 Oral Presentations IV
Chairs: F. Siebenhaar, U. Uslu

- OP04/01 14:30 (P177)** **Mitochondrial dysfunction in Xeroderma pigmentosum type A (XPA) causes UV-induced collapse of proteostasis due to lack of ATP**
M. Majora, R. Bhattacharjee, S. Dangeleit, A. Rossi, J. Krutmann; Duesseldorf
- OP04/02 14:42 (P116)** **Non-canonical Ki-67 accumulation in neutrophils regulates PAD4 activity and neutrophil extracellular trap formation**
J. Holsapple, L. Erpenbeck; Muenster
- OP04/03 14:54 (P220)** **Mechanisms of CD4+ T cell-mediated inflammatory cell death in melanoma**
K. Knauth, B. Kruse, A. Buzzai, S. Gellert, S. Bonifatius, A. Mueller, M. Boettcher, D. Mougiakakos, H. Kashkar, E. Gaffal, T. Tueting; Magdeburg, Cologne
- OP04/04 15:06 (P067)** **High serum levels and dynamics of Protein Y are associated with impaired overall survival and recurrence in melanoma patients receiving immunotherapy**
J. Koett, I. Hoehne, I. Heidrich, N. Zimmermann, T. Zell, G. Geidel, D. Smit, C. Gebhardt; Hamburg
- OP04/05 15:18 (P104)** **AhR agonism by tapinarof regulates TH2 and TH17 cell function in human skin**
F. Luther, N. Bertschi, O. Steck, S. Schaerli, L. Taylor, S. Radonjic-Hoesli, N. Yawalkar, D. Simon, C. Schlapbach; Bern

15:30-15:50

Quo Vadis Lecture II

C. Guenther, Dresden

Role of innate immunity in cutaneous autoimmune diseases

Introduction: T. Buhl

15:50-16:00

ADF Awards II

(Short presentations of awardee)

Egon Macher Award*

K. Loser, L. Erpenbeck

**The ADF thanks AbbVie GmbH Deutschland for the kind support.*

16:00-16:30

Break & Best of ADF Winter School 2024

The ADF thanks the DDG e. V. and L'ORÉAL Deutschland GmbH for their kind support.

16:30-17:00

ADF Awards III

ADF Dermato Oncology Award*

P. Stoitzner

ADF/ECARF Award for European Allergy Research**

J. Krutmann

ADF Translational Research Awards***

M. Kneilling

Thanks from the ADF to the

**Erwin & Irmgard Egner-Stiftung*

***European Centre for Allergy Research Foundation (ECARF)*

****Biogen GmbH*

SCIENTIFIC PROGRAMME

17:00-18:00

GUEST LECTURE

S. Dietrich (Duesseldorf)

From immunotherapy effector cells to immunotherapy resistance

Introduction: G. Stary

18:00-19:00

ADF General Assembly

(for agenda please see ADF-Homepage, www.adf-online.de)

20:00

Skin Research Forum @ *MS RheinGalaxie*

Abfahrt (Liegeplatz voraussichtlich): Düsseldorf Theodor Heuss Nr. 1

Robert-Lehr-Ufer, Theodor-Heuss-Brücke, 40213 Düsseldorf

Saturday, March 09, 2024

09:00-10:00

Oral presentations V

Chairs: V. Raker, L. Roesner

**OP05/01 09:00
(P117)**

Characterization of the Stromal Compartment of the Skin in Homeostasis and Obesity

L. Rosenberger, C. Friemel, L. Reverte Salisa, Y. Majlesain, I. Foerster, H. Weighardt; Bonn

**OP05/02 09:12
(P186)**

Recovery of altered marker gene expression, intraepidermal neuroanatomy and neurophysiology in pruritic lesional skin of atopic dermatitis patients after treatment with dupilumab

F. Witte, K. Agelopoulos, L. Renkhold, H. Wiegmann, C. Zeidler, S. Staender; Muenster

**OP05/03 09:24
(P002)**

IgE and anaphylaxis specific to the carbohydrate alpha-gal depend on interleukin-4

M. Hils, N. Hoffard, S. Kaesler, F. Woelbing, T. Biedermann; Munich

**OP05/04 09:36
(P208)**

Heparan sulfate regulates angiogenesis and infiltration of immune cells in melanoma

M. Zual, A. Bauer, C. Mess, Y. Wang, T. Obser, E. Wladykowski, S. Vidal y-Sy, S. Schneider, C. Gorzelanny; Hamburg

**OP05/05 09:48
(P122)**

Title: Increased expression of the Th17-associated cytokines IL-17 and IL-23 in inflamed skin of Darier disease patients as novel therapeutic targets

M. Ettinger, T. Burner, A. Sharma, Y. Chang, A. Lackner, P. Prompsy, I. Deli, J. Traxler, G. Wahl, S. Altrichter, Y. Tsai, S. Varkhande, L. Schoeftner, C. Iselin, I. Gratz, S. Kimeswenger, E. Guenova, W. Hoetzenecker; Linz, Salzburg, Lausanne, Madrid

10:00-10:20

Quo Vadis Lecture III

O. Hasan Ali, Zurich

The role of glycosylation in cancer - sweetening the therapeutic response.

Introduction: L. Flatz

10:20-11:10

POSTER SESSION (all even poster numbers)

11:10-12:00

POSTER SESSION (all odd poster numbers)

Saturday, March 09, 2024

12:00-13:00

Oral Presentations VI

Chairs: T. Haarmann-Stemmann, K. Wolk

**OP06/01 12:00
(P206)**

Tumor heterogeneity: Extracellular vesicles mediated transport of melanoma cell-derived miR-1246 between subpopulations of melanoma cells enhances the invasive capacity by targeting CCNG2

T. Kingreen, S. Kewitz-Hempel, C. Rhode, G. Hause, C. Sunderkoetter, D. Gerloff; Halle (Saale), Heidelberg

**OP06/02 12:12
(P052)**

Topical application of CCL22-specific aptamers as a treatment option to reduce allergic symptoms in contact hypersensitivity

M. Gottschalk, A. Jonczyk, M. Mangan, Y. Majlesain, M. Thiem, L. Burbaum, H. Weighardt, E. Latz, I. Foerster, G. Mayer; Bonn, Melbourne

**OP06/03 12:24
(P157)**

Direct binding of complement components to immunodominant skin antigens: a key step in early pathogenesis of autoimmune skin diseases?

A. Khodr El Oueyk, I. Suhrkamp, M. Adem, L. Komorowski, H. Tang, K. Kalies, H. Emmert, A. Verschoor, C. Hammers; Luebeck, Kiel, Philadelphia, Munich

**OP06/04 12:36
(P034)**

The volume-regulated anion channel LRRC8 participates in initiating keratinocyte differentiation and represents a novel target for topical psoriasis treatment

M. Jahn, V. Lang, K. Przibilla, S. Diehl, R. Kaufmann, O. Rauh, T. Fauth, C. Buerger; Frankfurt, Darmstadt, Zwingenberg

**OP06/05 12:48
(P088)**

Interferon and tumor necrosis factor alpha are upregulated in the human skin organ culture model for pemphigus vulgaris

V. Hartmann, W. Hariton, S. Rahimi, S. Guo, C. Hammers, R. Ludwig, H. Busch, E. Mueller, J. Hundt; Luebeck, Bern

13:00-13:20

POSTER AWARDS*

Chairs: M. Reiger, S. Willenbog, L. Erpenbeck

**The ADF thanks Almirall Hermal GmbH and Lilly Deutschland GmbH for their support.*

13:20

Acknowledgements, Farewell, End of Meeting

S. Eyerich, L. Erpenbeck, L. Flatz

SCIENTIFIC PROGRAMME

POSTER SESSIONS

All posters:	Thursday,	March 07,	18:10-21:00 Uhr
Even poster numbers:	Friday,	March 08	09:30-10:00 Uhr
	Saturday,	March 09,	10:20-11:10 Uhr
Odd poster numbers:	Friday,	March 08,	10:00-10:30 Uhr
	Saturday,	March 09,	11:10-12:00 Uhr

The ADF thanks UCB Pharma GmbH for the kind support of the poster exhibition!

Allergy

- P001** **Drug rash to antibiotics and analgesics – causal classification using a modified Naranjo algorithm**
S. Kerber, S. Emmert, R. Panzer; Rostock
- P002** **IgE and anaphylaxis specific to the carbohydrate alpha-gal depend on interleukin-4**
M. Hils, N. Hoffard, S. Kaesler, F. Woelbing, T. Biedermann; Munich
- P003** **In the skin lesions of patients with mycosis fungoides, the number of MRGPRX2-expressing cells is increased and correlates with mast cell numbers**
M. Hu, P. Pyatlova, S. Altrichter, C. Sheng, N. Liu, D. Terhorst-Molawi, K. Lohse, K. Ginter, V. Puhl, M. Maurer, M. Metz, P. Kolkhir; Berlin, Linz, Cambridge, Heidelberg
- P004** **Profiling patch tested patients with permanent tattoos – IVDK data 2020 – 2022**
S. Schubert, E. Oppel, A. Bauer, C. Schroeder-Kraft, H. Loeffler, K. Strom, M. Worm, R. Brans, N. Wagner, Y. Angela, J. Geier; Goettingen, Munich, Dresden, Hamburg, Heilbronn, Bad Reichenhall, Berlin, Osnabrueck, Erlangen, Minden
- P005** **Sex-dependent differences of bone marrow-derived dendritic cells in nickel uptake and migration behavior**
J. Weber, A. Braun, M. Schmidt, M. Goebeler, M. Schoen; Goettingen, Wuerzburg
- P006** **Cannabinoid-1 receptors modulate acute and chronic atopic inflammation of the skin**
S. Polkownik, K. Wulff, B. Kruse, A. Buzzai, S. Bonifatius, E. Gaffal; Magdeburg
- P007** **CREB is indispensable to KIT function in human mast cells – a positive feedforward loop between CREB and KIT orchestrates skin mast fate**
G. Bal, J. Schneikert, Z. Li, K. Franke, S. Tripathi, T. Zuberbier, M. Babina; Berlin
- P008** **An effective counterbalance protects human skin mast cells from exaggerated MRGPRX2 activation – ineffectiveness in LAD2 cells explains their hyperresponsiveness to MRGPRX2 ligands**
Z. Li, G. Bal, K. Franke, T. Zuberbier, M. Babina; Berlin
- P009** **Oak processionary moth setae contain several potential allergens and induce skin inflammation**
P. Dasari, S. Forkel, C. Lenz, S. Scholten, M. Schoen, T. Buhl; Goettingen
- P010** **The IgEome in Peanut Allergy: Determination of Autoreactive IgE**
C. Steinert, J. Scheffel, S. Doelle-Bierke, V. Hoefler, K. Beyer, M. Worm, M. Maurer, S. Altrichter; Berlin, Berlin, Linz

SCIENTIFIC PROGRAMME

- P011** **Relevance of distinct skin-resident cell populations in human contact allergy**
M. Marc Schmidt, A. Knorz, F. Imdahl, M. Goebeler, P. Khoueir; Wuerzburg, Wuerzburg
- P012** **GM-CSF-primed eosinophils enhance MC activation.**
X. Luo, S. Monino-Romero, F. Levi-Schaffer, M. Maurer, S. Frischbutter;
Berlin, Jerusalem
- P013** **Single-cell spatial proteomics identifies the JAK/STAT pathway as a target in Toxic Epidermal Necrolysis**
T. Nordmann, H. Anderton, A. Hasegawa, L. Schweizer, P. Zhang, P. Stadler, A. Sinha, A. Metousis, F. Rosenberger, M. Zwiebel, T. Satoh, F. Anzengruber, M. Tanzer, Y. Saito, T. Gong, M. Thielert, H. Kimura, N. Silke, E. Rodriguez, R. Gaetana, H. Nguyen, A. Gross, M. Levesque, P. Murray, S. Ingen-Housz-Oro, A. Mund, R. Abe, J. Silke, C. Ji, L. French, M. Mann; Martinsried, Bavaria, Zurich, Melbourne, Niigata, Fujian, Munich, Chur, Martinsried, Créteil, Copenhagen
- P014** **Application of hollow microneedles in a model of chronic inducible urticaria**
N. Nana shi, A. Alexander Engman, M. Mikael Hillmering, P. Pelle Rangsten, C. Carolina Vera-Ayala, S. Sherezade Moñino-Romero, M. Marcus Maurer, M. Markus Renlund, J. Joerg Scheffel; Berlin, Kista
- P015** **Impact of polycyclic aromatic hydrocarbons and skin sensitizing substances on the oxidative stress response of keratinocytes**
O. Eberle, P. Benndorf, T. Haarmann-Stemann; Duesseldorf
- P016** **Role of the AHR in cutaneous adverse drug reactions: Identification of new clinically relevant AHR activity-modulating drugs**
A. Kuklinski, T. Haarmann-Stemann, S. Arold, A. Momin, B. Homey, S. Meller;
Duesseldorf, Thuwal
- P017** **Wasp venom-specific immunotherapy-induced changes in T cell receptor repertoire**
S. Khilchenko, Y. Barbitoff, R. Ludwig, A. Recke, A. Vorobyev; Luebeck, Belgrade
- P018** **Understanding the Factors Influencing Birch Pollen Allergenicity and its Health Effects.**
D. Luschkova, L. Rauer, S. Gerhardt, A. Sener, A. Eggstein, F. Kolek, S. Ranpal, M. Sieverts, V. Woerl, G. Kahlenber, M. Landgraf, K. Koepke, C. Buettner, S. Jochner-Oette, A. Damialis, C. Traidl-Hoffmann, S. Gilles;
Augsburg, Eichstaett-Ingolstadt, Berlin, Thessaloniki, Davos
- P019** **Efficacy of a Dermocosmetic containing neurosensine, sphingobioma and niacinamide in patients with Atopic Dermatitis - achieving rapid symptom relief after one-day use and sustained improvement of Disease Severity and Quality of Life over time**
D. Luschkova, P. Enders, R. Rohayem, C. Guelzow, G. Hammel, D. Kerob, M. Niore, M. Reiger, C. Traidl-Hoffmann; Augsburg, Levallois-Perret, Davos
- P020** **Peripheral blood IL-23-expressing CD14+ monocytes and CD1c+ myeloid dendritic cells are increased in patients with chronic spontaneous urticaria**
N. Blaschke, S. Hermann, W. Pfuetzner, C. Moebis; Marburg

Cellular Biology

- P021** **Inhibition of Btk blocks neutrophil effector functions in pemphigoid diseases**
H. Olbrich, P. Schilf, S. Murthy, C. Sadik; Luebeck

SCIENTIFIC PROGRAMME

- P022** **Differing sensitivity of two human skin cell lines to reactive oxygen species**
D. Singer, A. Schmidt, S. Emmert, S. Bekeschus; Rostock, Greifswald
- P023** **Oxford Nanopore direct RNA sequencing reveals changes in ribosomal RNA modifications in senescent human epidermal keratinocytes**
A. Wagner, M. Schmid-Siegel, K. Tav, A. Bosch, M. Hengstschlaeger, F. Gruber, M. Schosserer; Vienna
- P024** **FasL enhances AK23-induced Acantholysis in a Caspase-dependent Manner in Pemphigus Vulgaris**
M. Schmidt, M. Feoktistova, D. Panayotova-Dimitrova, A. Yazdi; Aachen
- P025** **Modification of transglutaminase-1 during cornification of epidermal keratinocytes**
M. Surbek, T. Van de Steene, A. Sachslehner, B. Golabi, K. Gevaert, L. Eckhart; Vienna, Ghent
- P026** **S100A8/9 Potentiates Wound Healing Properties in ABCB5+ MSCs by RAGE-mediated STAT3 activation**
M. Aghapour, P. Maity, K. Singh, J. Ganss, Y. Wang, J. Cheng, P. Haas, C. Ganss, A. Kluth, K. Scharffetter-Kochanek; Ulm, Heidelberg
- P027** **Loss of translational accuracy in aging and aging-associated disease**
M. Hartmann, Z. Cao, D. Zhang, K. Scharffetter-Kochanek, S. Iben; Ulm
- P028** **The role of mechanotransduction in the integrin-dependent TGF-beta activation in psoriatic inflammation**
M. Shutova, S. Sellami, X. Jiang, M. Bachmann, B. Wehrle-Haller, W. Boehncke; Geneva
- P029** **Differential activation of mast cells by human effector T cells and regulatory T cells**
J. He, M. Maurer, S. Frischbutter; Berlin, LuZhou
- P030** **Uncovering Microtubule-driven Mechanisms of Melanoma Invasion**
R. Ju, A. Falconer, K. Dean, R. Fiolka, D. Sester, M. Nobis, P. Timpson, A. Lomakin, G. Danuser, M. White, D. Oelz, N. Haass, S. Stehbens; Brisbane, Dallas, Sydney, Vienna
- P031** **Deletion of keratin 77 causes increased expression of keratin 1**
S. Ghorbanalipour, B. Wagner, M. Dahlhoff; Vienna
- P032** **The ion channel TRPV4 contributes to epidermal functionality by regulating tight junctions and keratinocyte maturation**
R. Abel, N. Reuscher, M. Jahn, V. Lang, S. Diehl, R. Kaufmann, T. Fauth, C. Buerger; Frankfurt, Zwingenberg
- P033** **Activation of STAT3 through the mTOR and MAPK pathways contributes to inflammatory skin diseases**
V. Lang, M. Jahn, S. Diehl, R. Kaufmann, C. Buerger; Frankfurt
- P034** **The volume-regulated anion channel LRRC8 participates in initiating keratinocyte differentiation and represents a novel target for topical psoriasis treatment**
M. Jahn, V. Lang, K. Przibilla, S. Diehl, R. Kaufmann, O. Rauh, T. Fauth, C. Buerger; Frankfurt, Darmstadt, Zwingenberg

SCIENTIFIC PROGRAMME

- P035** **Development of 3D epidermal spheroids with a dermal core as a high-throughput suitable alternative to classical full-thickness skin models**
T. Cesetti, N. Couturier, V. Lang, R. Kaufmann, T. Fauth, R. Rudolf, C. Buerger; Mannheim, Zwingenberg, Frankfurt
- P036** **Beneficial effects of a plant extract mix in a psoriasis-like in vitro model: role of acting as antioxidant AhR ligand**
N. Heinemann, F. Rademacher, R. Glaeser, H. Vollert, J. Harder; Kiel, Bad Segeberg
- P037** **Combined Skin and Chest Trauma Accelerates Cutaneous Wound Healing – Role of Released MDC in Shaping Macrophage Polarization**
J. Cheng, S. Munir, P. Maity, M. Aghapour, P. Haas, M. Wlaschek, M. Huber-Lang, K. Singh, K. Scharffetter-Kochanek; Ulm
- P038** **Natural Killer Cells from Old Donors Fail to Efficiently Remove Senescent Fibroblasts from Aged Skin**
A. Koroma, K. Shekhawat, M. Wlaschek, P. Maity, K. Scharffetter-Kochanek; Ulm
- P039** **Understanding the Adaptive Response of MSCs upon Priming with S100A8/A9**
Y. Wang, K. Shekhawat, A. Koroma, P. Haas, M. Ask, M. Wlaschek, P. Maity, K. Scharffetter-Kochanek; Ulm
- P040** **Alzheimer´s disease: CRISPR-Cas9-Mediated Knockdown of Presenilin1 Leads to Disturbed rDNA Transcription and Impaired Cell Proliferation**
Z. Cao, D. Zhang, M. Hartmann, G. Zhu, F. Khalid, A. Schelling, P. Maity, K. Scharffetter-Kochanek, S. Iben; Ulm
- P041** **rDNA transcription disturbances in xpg mutated Cockayne syndrome**
D. Zhang, Z. Cao, M. Hartmann, K. Scharffetter-Kochanek, S. Iben; Ulm
- P042** **Importance of the xCT system and lipid peroxidation in systemic sclerosis.**
J. Tiemann, S. Muecklich, S. Leson, M. Kneilling, R. Mehling, M. Roecken, K. Schwegmann, M. Schaefers, P. Backhaus, K. Steinbrink, V. Raker; Muenster, Mainz, Tuebingen
- P043** **Filamin B modulates fibrosis-associated proteins and functional properties in cancer-associated fibroblasts**
T. Bokern, J. Lenger, K. Amschler, A. Lockmann, C. Kromer, A. Fehr, M. Schoen, V. Lorenz; Goettingen, Gothenburg
- P044** **Inactivation of RNase 7 by RNase inhibitor influences the inflammatory response in atopic dermatitis**
F. Rademacher, A. Scheel, R. Glaeser, L. Schroeder, N. Heinemann, J. Bartels, S. Gerdes, D. Stoelz, E. Rodriguez, K. Doehner, S. Weidinger, T. Werfel, J. Harder; Kiel, Hannover
- P045** **1064 nm Nd:YAG laser induces pro-fibrotic traits in collagen-embedded dermal fibroblasts**
V. Lorenz, L. Woerschhauser, T. Bokern, S. Lutz, M. Schoen, K. Thoms; Goettingen
- P046** **Mechanotransduction via myosin II isoforms contributes to TGF- β -driven fibroblast activation within Scleroderma skin fibrosis.**
B. Russo, M. Shutova, F. Noulet, G. Romanescu, N. Brembilla, W. Boehncke; Geneva
- P047** **Unveiling Fascia Dual Deformation: Catalyst for Healing and Scarring**
D. Jiang, H. Ye, J. Zhao, R. Dai, R. Guo, B. Dasgupta, P. Ramesh, D. Correa-Gallegos, K. Scharffetter-Kochanek, H. Machens, Y. Rinkevich; Munich, Ulm

SCIENTIFIC PROGRAMME

- P048** **Distinct protein kinase activity across age and sex in murine skin**
C. Osterloh, N. Ernst, N. Gross, S. Draeger, D. Scheppan, R. Ludwig, K. Bieber; Luebeck

Chemokines/Cytokines

- P049** **IL-9 induces a type-1 interferon signature in pathogenic skin-tropic Th2 cells**
N. Bertschi, A. Vallone, F. Luther, O. Steck, S. Schaerli, I. Keller, L. Borradori, D. Simon, C. Schlapbach; Bern
- P050** **Microdialysis in common inflammatory skin diseases highlights abnormalities in nonlesional skin of patients with atopic dermatitis**
M. Hollstein, S. Traidl, A. Heetfeld, S. Forkel, A. Leha, N. Alkon, J. Ruwisch, C. Lenz, M. Schoen, M. Schmelz, P. Brunner, M. Steinhoff, T. Buhl; Goettingen, Hannover, Vienna, Mannheim, New York, Doha
- P051** **Blocking the IL-22RA1 improves the molecular and histological signature of Atopic Dermatitis- insights from in vivo and in vitro AD models**
S. Wasserer, T. Litman, J. Hebsgaard, M. Jargosch, A. Pilz, N. Garzorz-Stark, T. Biedermann, C. Blanchetot, M. Sidsel Mortensen, T. Skak-Nielsen, M. Bertelsen, K. Eyerich, F. Lauffer, B. Martel, S. Eyerich; Munich, Ballerup, Zwijnaarde, Freiburg
- P052** **Topical application of CCL22-specific aptamers as a treatment option to reduce allergic symptoms in contact hypersensitivity**
M. Gottschalk, A. Jonczyk, M. Mangan, Y. Majlesain, M. Thiem, L. Burbaum, H. Weighardt, E. Latz, I. Foerster, G. Mayer; Bonn, Melbourne
- P053** **The antimicrobial peptide RNase 7 induces the expression and secretion of the pro-inflammatory cytokine IL-6 by keratinocytes**
S. Chopra, J. Siegl, V. Kopfnagel, S. Wagenknecht, J. Harder, T. Werfel, K. Doehner; Hannover, Kiel
- P054** **Expression of IL-17 receptors by skin cell populations and their significance in cutaneous inflammation**
K. Wolk, N. Rill, T. Brembach, K. Witte, R. Sabat; Berlin
- P055** **Preferential endogenous regulation of skin inflammation by IL-37 seems to be specific for psoriasis.**
G. Ojak, T. Macleod, I. Hyde, A. Berekmeri, D. Kramer, S. Tenzer, M. Stacey, M. Wittmann; Mainz, Leeds
- P056** **Atopic dermatitis and psoriasis associated cytokines influence HSV-1 infection of primary keratinocytes depending on their differential status.**
N. Zoeller, M. Schultz, K. Steinhorst, F. Rothweiler, D. Bojkova, R. Kaufmann, J. Cinatl jr., S. Kippenberger; Frankfurt
- P057** **Altered keratinocyte differentiation and increased chemokine and antimicrobial peptide expression in palmoplantar keratoderma due to keratin 9 variants**
D. Ortner-Tobider, T. Trafoier, M. Mildner, C. Heufler, M. Schmuth; Innsbruck, Wien

SCIENTIFIC PROGRAMME

Clinical Research

- P058** **Oil-in-water emulsions containing a combination of Zingiber officinale root extract and cannabidiol with potent in vitro anti-inflammatory effects ameliorate symptoms of dry and eczema-prone face and hand skin in a clinical trial**
S. Andreev, C. Neubauer, N. Maehler, K. Moritz, R. Ziegler, S. Hoch, H. Steindl, T. Braun, P. Filipek, T. Jakschitz, G. Bonn, M. Kragl, M. Soeberdt, C. Abels; Neumarkt, Innsbruck
- P059** **Therapeutic effects and impact of individual skin care regimes as basic therapy in the management of atopic dermatitis: a remote prospective observational study in adults and children suffering from AD**
S. Andreev, C. Neubauer, N. Maehler, K. Moritz, R. Ziegler, C. Apfelbacher, C. Abels; Neumarkt, Magdeburg
- P060** **Reduced killing-capacity of NK cells in atopic dermatitis**
R. Philippsen, D. Stoelzl, S. Weidinger, T. Schwarz, A. Schwarz; Kiel
- P061** **Effects of tirbanibulin on keratinocytes and squamous cell carcinoma cell lines in vitro**
V. DeTemple, A. Walter, S. Bredemeier-Rasche, R. Gutzmer, K. Schaper-Gerhardt; Minden, Hannover
- P062** **Across the Skin Depths: Increased Absolute Levels of Bacteria within Atopic Dermatitis and Psoriasis, but not Chronic Spontaneous Urticaria**
J. Afghani, T. Hawro, A. de Tomassi, M. Reiger, C. Huelpuesch, M. Metz, C. Traidl-Hoffmann; Augsburg, Munich, Davos, Neuherberg, Kiel, Berlin
- P063** **Skin Microbiome dysbiosis associated with inflammation and body malodour are hallmarks of Darier's disease**
Y. Amar, D. Rogner, B. Foessel, R. Silva, S. Niedermeier, M. Jargosch, J. Thomas, S. Eyerich, J. Wikstroem, M. Schloter, K. Eyerich, M. Koeberle, T. Biedermann; Muenchen, Neuherberg, Stockholm, Freiburg
- P064** **Transcriptome analysis defines combinatory pathway activity in keratinocytes necessary for split formation in pemphigus vulgaris**
S. Guo, V. Hartmann, U. Radine, I. Burmester, W. Hariton, S. Rahimi, C. Hammers, R. Ludwig, E. Mueller, H. Busch, J. Hundt; Luebeck, Bern
- P065** **C5aR expression is increased in the skin of patients with chronic spontaneous urticaria**
L. Huang, M. Maurer, M. Munoz; Berlin, Berlin
- P066** **Clinical Profiling and Prognostic Factors of Mucosal Melanoma: Insights from a Comprehensive Cohort Study**
N. Zimmermann, J. Koett, W. Loeffler, T. Zell, I. Heidrich, G. Geidel, C. Gebhardt; Hamburg
- P067** **High serum levels and dynamics of Protein Y are associated with impaired overall survival and recurrence in melanoma patients receiving immunotherapy**
J. Koett, I. Hoehne, I. Heidrich, N. Zimmermann, T. Zell, G. Geidel, D. Smit, C. Gebhardt; Hamburg

SCIENTIFIC PROGRAMME

Dermato-Endocrinology

- P068** **Melatonin exerts synergistic responses in targeted therapy for human melanoma**
J. Moeller, A. Wolnicka-Glubisz, C. Becker, V. Raker, R. De Paolo, L. Polisenio, A. Slominski, M. Tulic, M. Boehm, K. Steinbrink, K. Kleszczynski; Muenster, Krakow, Pisa, Birmingham at Alabama, Nice
- P069** **Endothelial cells – new targets for the antifibrotic action of the alpha7 nicotinic acetylcholine receptor?**
A. Stegemann, Z. Pethoe, V. Raker, A. Schwab, K. Steinbrink, M. Boehm; Muenster
- P070** **Meta-Analysis of European Clinical Trials Characterizing the Healthy-Adult Serum 25-hydroxyvitamin D Response to Vitamin D Supplementation**
M. Rupprecht, S. Wagenpfeil, J. Schoepe, R. Vieth, T. Vogt, J. Reichrath; Homburg, Saarbruecken, Toronto
- P071** **Differential regulation of circadian clock genes by UVB radiation and 1,25-dihydroxyvitamin D in human epidermal keratinocytes: a pilot study during different stages of skin photocarcinogenesis**
L. Lamnis, C. Christofi, A. Stark, H. Palm, K. Roemer, T. Vogt, J. Reichrath; Homburg
- P072** **Dermal white adipose tissue induces interleukin 4/13 expression in myeloid cells during inflammation in an IL-33 dependent manner**
A. Ertel; Leipzig
- P073** **The association between Vitamin D Status and Melanoma Risk and Prognosis: Meta-Analyses and Systematic Review**
S. Haddad, J. Weise, J. Schoepe, S. Wagenpfeil, T. Vogt, J. Reichrath; Homburg
- P074** **Is the alpha-MSH-MC1R axis relevant for cutaneous photoaging?**
M. Boehm, A. Stegemann, V. Raker, K. Steinbrink, N. Schaefer, S. Graessel; Muenster, Regensburg
- P075** **Does a functional, peripheral equivalent of hypothalamic-pituitary-thyroid axis exist in human hair follicles?**
K. Linowiecka, J. Chéret, J. Gherardini, R. Paus; Miami, Toruń, Hamburg
- P076** **Topical T3 and T4 promote hair follicle growth in intact human scalp skin ex vivo**
J. Gherardini, A. Akhundlu, M. Gompels, S. Velasco, U. Knie, A. Bakst, A. Verbinnen, R. Kassir, J. Chéret, R. Paus; Miami, Hamburg, N/A, Wayne
- P077** **Melatonin unfolds prominent, differential epidermal and dermal anti-aging properties in aged human facial and scalp skin ex vivo**
K. Linowiecka, T. Gomez Gomez, T. Samra, A. Akhundlu, W. Lee, G. Lopez de Mendoza, M. Gompels, J. Gherardini, J. Chéret, R. Paus; Miami, Toru?, Hamburg
- P078** **Melatonin significantly regulates arylhydrocarbon receptor, p27, p21, p53 and COX-2 with consecutive impact on UVR-induced inflammation, skin aging and carcinogenesis**
K. Pustelnik, T. Burner, W. Hoetzenecker, T. Fischer; Linz

SCIENTIFIC PROGRAMME

Dermatopathology

- P079** **Metabolic intervention with 2-DG ameliorates symptoms in a model of atopic dermatitis**
M. Neumann, S. Gonther, P. Schilf, S. Murthy, C. Sadik; Luebeck
- P080** **Staphylococcus hominis is beneficial for skin architecture, barrier and inflammation in an atopic dermatitis model with reconstructed human epidermis**
M. Jargosch, M. Bhattacharyya, F. Lauffer, C. Traidl-Hoffmann, M. Reiger, N. Garzorz-Stark; Munich, Augsburg, Davos, Stockholm
- P081** **Deletion of both ERBB2 and ERBB3 in mouse skin affects epidermal differentiation and causes inflammatory lesions**
T. Hommel, M. Schneider, M. Dahlhoff; Vienna, Leipzig
- P082** **Comparative in vivo imaging of blood flow and inflammation in skin tumors including follow-up under immunological therapies using dynamic optical coherence tomography and line-field confocal optical coherence tomography**
O. Mayer, J. Welzel, S. Schuh; Augsburg
- P083** **Lesion localization in autoimmune blistering dermatoses is independent of site-specific antigen expression**
T. Rastegar Lari, L. Macias, O. Dikmen, I. Weyers, I. Koenig, N. van Beek, E. Schmidt, S. Emtenani; Luebeck
- P084** **Immunoglobulin D - Does it play a role in chronic spontaneous urticaria?**
M. Butze, C. Steinert, M. Kiwan, H. Bonnekoh, S. Frischbutter, J. Scheffel, M. Maurer, M. Metz; Berlin, Potsdam
- P085** **Epigenetic alterations of proliferation-associated molecules in psoriatic keratinocyte subtypes**
K. Witte, K. Juerchott, G. Salinas, G. Kokolakis, E. Witte-Haendel, H. Volk, K. Wolk, R. Sabat; Berlin, Goettingen
- P086** **Supporting B cells in hidradenitis suppurativa lesions, BAFF secreted by G-CSF activated neutrophilic granulocytes is a pathogenetic factor**
R. Sabat, D. Simaite, J. Gudjonsson, T. Brembach, K. Witte, T. Krause, G. Kokolakis, E. Bartnik, C. Nikolaou, N. Rill, B. Coulibaly, C. Levin, M. Herrmann, G. Salinas, T. Leeuw, H. Volk, K. Ghoreschi, K. Wolk;
Berlin, Frankfurt, Ann Arbor, Potsdam, Vitry-sur-Seine, Goettingen
- P087** **A primary melanoma orchestrates premetastatic niche formation via neutrophils**
M. Thun, S. Schneider, A. Sacharow, C. Mess, C. Gorzelanny, T. Renné, H. Englert, M. Kriegs, K. Pantel, A. Bauer; Hamburg
- P088** **Interferon and tumor necrosis factor alpha are upregulated in the human skin organ culture model for pemphigus vulgaris**
V. Hartmann, W. Hariton, S. Rahimi, S. Guo, C. Hammers, R. Ludwig, H. Busch, E. Mueller, J. Hundt; Luebeck, Bern
- P089** **Degree of Actinic Elastosis Is a Surrogate of Exposure to Chronic Ultraviolet Radiation in melanoma and NMSC**
K. Drexler, V. Zenderowski, L. Schreieder, K. Koschitzki, M. Berneburg, S. Haferkamp, D. Niebel; 93053 Regensburg

SCIENTIFIC PROGRAMME

- P090** **The role of lactate and its receptor Gpr81 in the resolution of inflammatory blistering skin diseases**
M. Novovic, P. Schilf, S. Gonther, C. Sadik; Luebeck
- P091** **Depletion of mast cells with barzolvolimab, an anti-KIT antibody, does not affect mast cell progenitor numbers or function**
S. Moñino-Romero, N. Mahnke, A. Gutsche, D. Terhorst-Molawi, E. Grekowitz, L. Kiefer, D. Alvarado, M. Metz, F. Siebenhaar, J. Scheffel, M. Maurer; Berlin, New Jersey
- P092** **Interleukin-19: a key pathogenic factor in palmoplantar pustulosis?**
K. Wolk, D. Wilsmann-Theis, K. Witte, T. Brembach, S. Kunz, C. Kromer, S. Gerdes, K. Ghoreschi, K. Reich, R. Moessner, R. Sabat; Berlin, Bonn, Goettingen, Kiel, Hamburg
- P093** **Loss of T antigen expression results in cell cycle arrest and neuroblastic transdifferentiation in Merkel cell carcinoma**
T. Kervarrec, J. Becker, R. Houben, D. Schrama; Wuerzburg, Tours, Essen
- P094** **Detrimental effects of the disinfectant Octenisept® on wound healing in the human ex vivo wound healing organ culture**
T. Stilla, C. Jacobi, T. Walther, J. Hundt; Luebeck, Greifswald
- P095** **Testing the effect of kinase inhibitors in the human skin organ culture model**
C. Walczyk, C. Hammers, T. Lange, R. Ludwig, J. Hundt; Luebeck, Kiel
- P096** **Withdrawn!**
- P097** **The single chain variable fragment PF1-8-15 induces acantholysis in the human skin organ culture model**
M. Lahmer, V. Hartmann, A. Mueller, C. Hammers, J. Hundt; Luebeck
- P098** **Screening of an ion channel inhibitor library to unravel new therapeutic targets for pemphigus vulgaris**
L. Zillikens, V. Hartman, C. Hammers, R. Ludwig, J. Hundt; Luebeck

Genetics

- P099** **Serum analysis of patients with Netherton syndrome shows significant differences compared to other subtypes of ichthyoses: implication for novel therapeutic approaches**
K. Suessmuth, V. Oji, H. Traupe, C. Wessel, H. Wittkowski, J. Fischer, J. Bodes; Berlin, Muenster, Freiburg
- P100** **Nanopore sequencing for T-cell receptor repertoire analysis in patients with cutaneous T-cell lymphoma**
C. Cieslak, C. Rueckert, C. Hain, T. Busche, J. Kalinowski, K. Schaper-Gerhardt, R. Gutzmer, R. Stadler; Minden, Bielefeld
- P101** **Investigation of stress induced metabolic changes in the progeroid Cockayne syndrome (CS) revealed metabolic dysfunctions in CS cells**
T. Svilenska, C. Cimmaruta, C. Bogner, V. Laugel, M. Ricchetti, W. Gronwald, Y. Kamenisch, M. Berneburg; Regensburg, Paris, Strasbourg

SCIENTIFIC PROGRAMME

- P102** **CRISP-Cas double nicking targets disease-causing keratin 9 variant in keratoderma to prevent intermediate filament collapse**
T. Trafoier, D. Ortner-Tobider, S. Hainzl, T. Kocher, U. Koller, J. Bauer, M. Rhiel, G. Andrieux, T. Cornu, T. Cathomen, A. Janecke, J. Reichelt, C. Heufler, M. Schmuth; Innsbruck, Salzburg, Freiburg, Qatar

Immunology

- P103** **Crosstalk between Keratinocytes and Neutrophils shapes skin immunity against *S. aureus* infection**
J. Focken, B. Schittek; Tuebingen
- P104** **AhR agonism by tapinarof regulates TH2 and TH17 cell function in human skin**
F. Luther, N. Bertschi, O. Steck, S. Schaerli, L. Taylor, S. Radonjic-Hoesli, N. Yawalkar, D. Simon, C. Schlapbach; Bern
- P105** **IL-9 sensitizes human pathogenic Th2 cells to pro-inflammatory IL-18 signals in atopic dermatitis**
S. Schaerli, F. Luther, O. Steck, J. Thyssen, N. Bertschi, C. Schlapbach; Bern, Hellerup
- P106** **JAK1/2 pathway-specific treatment of generalized granuloma annulare with baricitinib**
A. Jadoul, L. Huygen, G. Leemans, M. Grosber, I. Kortekaas Krohn, J. Gutermuth; Brussels
- P107** **Specific reduction of the viability of motile human monocytes upon tattoo ink exposure but not of skin resident cells**
C. Lin, Y. Marquardt, S. Ruetten, L. Liao, K. Rahimi, T. Haraszti, J. Baron, M. Bartneck; Aachen, Shanghai, Jilin
- P108** **NDP-MSH improved the integrity of inflamed endothelial cell barriers**
E. Alsaedi, N. Mykicky, N. Srinivasan, A. Hildebrand, S. Meuth, K. Loser; Oldenburg, Duesseldorf
- P109** **The role of cyclin-dependent kinase signalling in experimental epidermolysis bullosa acquisita**
M. Schlotfeldt, D. Mehlberg, C. Osterloh, N. Ernst, R. Ludwig, K. Bieber; Luebeck
- P110** **Role of neutrophil extracellular traps in Epidermolysis bullosa acquisita**
S. Murthy, M. Thieme, M. Mueller, L. Kroeger, P. Schilf, C. Sadik; Luebeck, Luebeck
- P111** **Desmoglein 3 peptides-conjugated nanoparticles as a novel tool for tolerance induction in a preclinical pemphigus vulgaris (PV) mouse model**
C. Hudemann, D. Krzikalla, B. Metzler, R. Digigow, R. Eming, M. Hertl, S. Fleischer, H. Garn; Marburg, Hamburg, Koblenz
- P112** **Quality-controlled characterization of an EC5 specific monoclonal antibody against Desmoglein3 as a standardized tool for preclinical pemphigus analysis**
R. Eming, E. Mueller, A. Zakrzewicz, U. Linne, R. Tikkanen, C. Hudemann; Marburg, Koblenz, Bern, Giessen
- P113** **A Th2-Immunocompetent and Sensory Innervated Full-Thickness Skin Model for Neurocutaneous Inflammation in Atopic Dermatitis**
K. Hahn, D. Addy, C. Korb, M. Schoen, P. Dasari, T. Buhl; Goettingen

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- P114** **Neutrophils show rapid catecholamine trafficking**
A. Schmitz, J. Mohr, M. Dinarvand, E. Neubert, T. Husar, A. Gruhn, S. Jung, S. Kruss, L. Erpenbeck; Muenster, Bochum, Tuebingen, Leiden, Goettingen
- P115** **The distribution of putative skin autoantigens is not limited to a specific type of inflammatory skin disease**
Y. Koeseoglu, T. Biedermann, S. Eyerich, N. Garzorz-Stark, M. Jargosch; Munich, Stockholm
- P116** **Non-canonical Ki-67 accumulation in neutrophils regulates PAD4 activity and neutrophil extracellular trap formation**
J. Holsapple, L. Erpenbeck; Muenster
- P117** **Characterization of the Stromal Compartment of the Skin in Homeostasis and Obesity**
L. Rosenberger, C. Friemel, L. Reverte Salisa, Y. Majlesain, I. Foerster, H. Weighardt; Bonn
- P118** **Early distinct immune responses in COVID-19 vaccine-breakthrough versus non-vaccinated patients**
C. Holetschek, M. Goekkaya, D. Luschkova, P. Eder, D. Rauer, C. Roemmele, G. Gorochov, C. Traidl-Hoffmann, A. Neumann; Augsburg, Munich, Paris
- P119** **Targeted systemic treatment modulates the relative abundance of staphylococcus aureus in patients with atopic dermatitis**
R. Rohayem, A. de Tomassi, M. Reiger, A. Neumann, . CK Care study group, C. Huelpuesch, C. Traidl-Hoffmann; Augsburg, Davos
- P120** **Revitalizing Treg function in Epidermolysis bullosa acquisita: a promising therapeutic insight**
N. Gross, A. Vorobyev, D. Scheppan, D. Wortmann, S. Draeger, R. Ludwig, K. Bieber; Luebeck
- P121** **Kinome analysis reveals potential therapeutic targets in pemphigoid diseases**
E. Moderegger, M. Kamaguchi, A. Kasprick, C. Osterloh, L. Schmidt-Jiménez, N. Ernst, K. Bieber, R. Ludwig; Luebeck, Luebeck
- P122** **Title: Increased expression of the Th17-associated cytokines IL-17 and IL-23 in inflamed skin of Darier disease patients as novel therapeutic targets**
M. Ettinger, T. Burner, A. Sharma, Y. Chang, A. Lackner, P. Prompsy, I. Deli, J. Traxler, G. Wahl, S. Altrichter, Y. Tsai, S. Varkhande, L. Schoeftner, C. Iselin, I. Gratz, S. Kimeswenger, E. Guenova, W. Hoetzenecker; Linz, Salzburg, Lausanne, Madrid
- P123** **Bullous pemphigoid induced by IgG targeting murine type XVII collagen non-NC15A extracellular domains is driven by Fc gamma receptor-mediated effector mechanisms and ameliorates with neonatal Fc receptor blockade**
M. Pigors, S. Patzelt, S. Khilchenko, S. Emtenani, K. Bieber, M. Kamaguchi, S. Goletz, L. Komorowski, C. Probst, K. Vanderheyden, B. Balbino, R. Ludwig, P. Verheesen, E. Schmidt; Luebeck, Ghent
- P124** **T Cell Receptor Repertoire Analysis During the Pathogenesis of the Autoimmune Skin Blistering Disease Epidermolysis Bullosa Acquisita**
F. Bahreini, M. Niebuhr, K. Bieber, C. Hammers, J. Westermann, K. Kalies; Luebeck

SCIENTIFIC PROGRAMME

- P125** **Lebrikizumab reduces systemic inflammation in serum of patients with moderate-to-severe atopic dermatitis**
E. Guttman-Yassky, A. Okragly, Z. Sun, L. Mena, N. Hahn, B. Nickoloff, K. Siu, G. Gallo, E. Wolf, K. Eyerich, M. Aparici, R. Benschop; New York, Indianapolis, Freiburg, Barcelona
- P126** **Lebrikizumab treatment results in rapid improvement of atopic dermatitis disease cytokines and pathways**
E. Guttman-Yassky, A. Okragly, Z. Sun, B. Nickoloff, C. Preuss, C. Natalie, G. Gallo, E. Wolf, K. Eyerich, M. Aparici, R. Benschop; New York, Indianapolis, Freiburg, Barcelona
- P127** **ZBP1 and Mitochondrial Z-DNA Drive Autoimmune Photosensitivity**
B. Klein, M. Reynolds, B. Xu, M. Gharaee-Kermani, G. Gao, C. Berthier, A. Victory, S. Estadt, C. Dobry, G. Hile, F. Ma, J. Turnier, J. Gudjonsson, M. O'Riordan, M. Kahlenberg; Ann Arbor
- P128** **Distinct roles for barrier disruption and *S. aureus* provoking IL-13 and IL-4 to mount a type 2 immune response in a preclinical model for atopic dermatitis**
I. Hoelge, S. Lekishvili, M. Hils, Y. Amar, S. Kaesler, T. Biedermann; Munich
- P129** **Involvement of Alternative C5-Convertases in Inducing Skin Inflammation in Experimental Pemphigoid Diseases**
S. Mousavi, M. Kamaguchi, K. Izumi, S. Draeger, L. Schmidt-Jiménez, A. Kasprick, S. Patzelt, S. Emtenani, M. Pigors, K. Bieber, E. Schmidt, R. Ludwig; Luebeck
- P130** **A systematic review of nicotine-induced changes in neutrophilic granulocytes: possible implication to hidradenitis suppurativa**
T. Brembach, R. Sabat, K. Witte, T. Schwerdtle, K. Wolk; Berlin, Nuthetal
- P131** **Investigation of immune-cell metabolism in human skin using flow cytometry**
M. Huerta Arana#, H. Klapproth#, R. Seitz, M. López Martínez, L. Bopp, M. Fabri; Cologne
- P132** **Glucocorticoids and their influence on monocytes phagocytosis**
Y. Kusche, K. Vischedyk, K. Barczyk-Kahlert, J. Ehrchen; Muenster
- P133** **Type 2-mediated metabolic reprogramming regulates the macrophage-fibroblast crosstalk in skin repair**
S. Willenborg, L. Keufgen, M. Krueger, H. Kashkar, A. Trifunovic, S. Eming; Cologne
- P134** **The role of GPR31, the 12(S)-HETE receptor, in psoriasisform dermatitis**
S. Jin, S. Murthy, M. Hirose, C. Sadik; Luebeck
- P135** **Regulation of the inflammatory response during wound healing: why macrophage cell death matters**
L. Injarabian, S. Willenborg, D. Sanin, D. Welcker, H. Kashkar, M. Pasparakis, S. Eming; Cologne, Baltimore, MD
- P136** **Comparison of different keratinocyte cell line models for NLRP1 inflammasome activation**
T. Wang, M. Feoktistova, D. Panayotova-Dimitrova, A. Yazdi; Aachen
- P137** **IL-15 neutralization results in the prevention/amelioration of skin barrier defects and pro-inflammatory environment in AD lesions experimentally induced in human xenotransplants**
I. Piccini, O. Egriboz, A. Pal, K. Pappelbaum, M. Fehrholtz, A. Keren, A. Gilahr, A. Vicari, M. Bertolini; Muenster, Haifa, Amsterdam

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- P138** **VSNL1 – a novel factor in keratinocytes that promotes psoriatic skin inflammation**
J. Eigemann, E. Clayer, C. Hillig, T. Biedermann, S. Eyerich, M. Jargosch, F. Lauffer; Munich, Neuherberg
- P139** **C-type lectin receptor Dectin-2 suppresses melanoma metastases**
A. Teegen, W. Pruessmann, J. Pruessmann, C. Sadik; Luebeck
- P140** **The role of innate immune stimulation for BAFF induction in cutaneous lupus erythematosus**
S. Kouda, S. Roesing, N. Zimmermann, S. Beisert, C. Guenther; Dresden
- P141** **The LPS Induced Adaptive Response of Old ABCB5+ MSCs Failed to Elicit Microbicidal Neutrophil Functions to Control Gram Negative Bacteria**
P. Haas, K. Singh, P. Maity, S. Schatz, S. Munir, Y. Wang, J. Cheng, M. Aghapour Ask, A. Basu, D. Crisan, R. Bauer, S. Mauerer, B. Spellerberg, C. Ganss, M. Wlaschek, M. Kluth, K. Scharffetter-Kochanek; Ulm, Heidelberg
- P142** **Unraveling the role of CD64+ DC population in melanoma**
J. Vierthaler, F. Hornsteiner, H. Strandt, S. Dieckmann, M. Kanduth, C. Tripp, S. Morla, G. Wollmann, P. Stoitzner; Innsbruck
- P143** **The influence of indisulam on human immune effector cells: Is a combination with immunotherapy feasible?**
L. Arnet, L. Emilius, M. Carmo-Fonseca, C. Berking, J. Doerrie, N. Schaft; Erlangen, Lisbon
- P144** **Multi-omics analysis enables machine learning based differentiation of clinical mimickers in lichenoid skin diseases**
P. Stadler, J. Mueller-Reif, J. Maul, C. Guillet, N. Moellhoff, L. Maul, L. Calabrese, B. Meier-Scheisser, T. Satoh, M. Neulinger, M. Flaig, K. Kerl-French, T. Nordmann, L. French, M. Mann; Munich, Martinsried, Zurich, Basel, Miami
- P145** **Impact of different contact allergens on a full-thickness human skin model including primary immune cells**
M. Nuesken, M. Hollstein, P. Dasari, F. Bremmer, K. Mewes, M. Schoen, T. Buhl; Goettingen, Duesseldorf
- P146** **DEC205, a receptor characterizing non-lymphoid dendritic cells also mediates endocytosis in brain endothelial cells**
S. Singh, S. Ring, X. Lei, S. Jin, A. Enk, K. Mahnke; Heidelberg
- P147** **Induction of antigen-specific tolerance by targeting the endocytic receptor DEC205 with artificial liposomes**
X. Lei, S. Ring, M. Macher, I. Platzman, J. Spatz, A. Enk, K. Mahnke; Heidelberg
- P148** **Deciphering the CD4+ T cell compartment in pemphigus**
A. Mesas, A. Deland, E. Klein, F. Hilke, K. Meier, A. Polakova, C. Moebs, F. Solimani, K. Ghoreschi; Berlin, Marburg
- P150** **Multiplexed analysis of mast cells within healthy human skin tissues by imaging mass cytometry reveals heterologous expression of proteases**
N. Liu, M. Maurer, J. Scheffel; Berlin

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- P151 Higher IL-10+ T cell and Treg cell counts in psoriatic skin are associated with super-response to guselkumab: Data from the Phase 3 GUIDE trial**
J. Angsana, K. Kohler, J. Sendekci, M. Leung, S. Tabori, N. Krueger, S. Wegner, Y. Personke, R. Sabat, K. Wolk, A. Pinter, P. Weisenseel, K. Asadullah, K. Schaeckel, K. Eyerich;
San Diego, Neuss, Berlin, Frankfurt am Main, Hamburg, Potsdam, Heidelberg, Freiburg
- P152 Safety, tolerability and pharmacokinetics of TPM203, a tolerizing Topas particle mixture in pemphigus vulgaris: preliminary results from a phase 1, first in man study (EudraCT Number: 2019-001727-12)**
D. Didona, K. Volkmann, J. Hinterseher, C. Moebis, R. Pollmann, A. Polakova, W. Pfuetzner, T. Cunha, F. Schauer, M. Hahn, K. Meier, N. Magnolo, M. Sticherling, S. Fleischer, M. Hertl; Marburg, Freiburg, Tuebingen, Berlin, Muenster, Erlangen, Hamburg
- P153 Vascular damage and neurogenic inflammation in Erythema migrans of the skin.**
S. Weninger, S. Mueller, M. Markowicz, A. Schoetta, L. Unterluggauer, L. Kleissl, A. Redl, H. Stockinger, J. Strobl, G. Stary; Vienna
- P154 The metabolite sensing Hca2/Gpr109a receptor as a regulator of skin and brain inflammation**
H. Lange, S. Polkownik, B. Kruse, S. Bonifatius, A. Albrecht, E. Gaffal; Magdeburg
- P155 Neoadjuvant immune checkpoint inhibition protects from hepatic melanoma metastasis by mounting an enhanced anti-tumoral Th1 immune response**
S. Wohlfeil, C. Weller, B. Dietsch, D. Agardy, T. Boschert, V. Haefele, M. Platten, S. Goerdts, C. Géraud; Mannheim, Heidelberg
- P156 Circadian Rhythmicity of Immune Cells in Systemic Lupus Erythematosus**
S. Stenger, T. Stilla, V. Hartmann, T. Lange, J. Hundt; Luebeck
- P157 Direct binding of complement components to immunodominant skin antigens: a key step in early pathogenesis of autoimmune skin diseases?**
A. Khodr El Oueyk, I. Suhrkamp, M. Adem, L. Komorowski, H. Tang, K. Kalies, H. Emmert, A. Verschoor, C. Hammers; Luebeck, Kiel, Philadelphia, Munich
- P158 NK cells are activated and possess immunoregulatory functions in patients with pemphigus vulgaris**
C. Zimmer, L. Schierhofer, P. Clavero, K. Schlueter, J. Marschall, A. Santos, J. Hinterseher, A. Polakova, D. Didona, M. Hertl, N. Marquardt; Marburg, Stockholm
- P159 Bullous pemphigoid induced by immune checkpoint inhibitors – an issue of relevance?**
M. Sticherling, M. Brueckner, R. Kramer, M. Erdmann; Erlangen
- P160 Importance of pre-clinical validation of pharmacological targets in pemphigoid diseases**
S. Draeger, L. Schmidt-Jimenéz, S. Staender, Y. Gupta, K. Kalies, R. Ludwig, K. Bieber; Luebeck, New York
- P161 Impact of mitochondrial stress in the pathogenesis of dermatomyositis**
J. Steininger, L. Mlitzko, K. Fischer, S. Meisterfeld, S. Roesing, C. Guenther; Dresden

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- P162** **Characterization of pemphigus patients by plasma-derived extracellular vesicles**
A. Jung, K. Laakmann, C. Zimmer, D. Didona, A. Mesas Fernandez, F. Solimani, C. Moebis; Marburg, Berlin
- P163** **Gliptin-induced bullous pemphigoid: characterization of patient autoantibody profiles and direct effects on adaptive immune cells**
L. Schmidt-Jiménez, D. Wortmann, M. Kamaguchi, S. Draeger, D. De Luca, S. Goletz, E. Schmidt, R. Ludwig, K. Kridin, K. Bieber; Luebeck, Barcelona, Nahariya, Safed
- P164** **Immunoglobulin therapy suppresses murine acute contact hypersensitivity similar to CTLA4Ig fusion protein treatment**
R. Mehling, B. Schoerg, F. Lotz, B. Fehrenbacher, S. Riel, J. Kienzler, I. Gonzalez-Menendez, L. Quintanilla-Martinez, A. Mascioni, I. Wilson, M. Schaller, A. Maurer, S. Volc, A. Bree, A. Winkler, E. Keliher, K. Maresca, M. Kneilling; Tuebingen, Tuebingen, Inglewood, Cambridge
- P165** **Gamma delta T cells boost blister formation during PD-1 immune checkpoint therapy in pemphigoid disease.**
J. Pruessmann, W. Pruessmann, C. Sadik; Luebeck
- P166** **Establishing a human 3D skin model for pemphigus**
E. Janusch, C. Hammers, R. Ludwig, A. Müller, J. Hundt
Lübeck, Regensburg
- P167** **Immune complex induced cell migration and cytokine production of non-classical monocytes are defined by FcγRIII-genotype and IgG glycosylation**
A. List, M. Hertwig, S. Oehrl, K. Schaekel; Heidelberg
- P168** **A subsets of skin resident CD8+ T cells protects organ transplant receivers from skin cancer development**
S. Saluzzo, L. Borik-Heil, L. Gail, R. Pandey, K. Chrapla, A. Aguilar-Gonzales, G. Stary; Vienna
- P169** **TSLP instructs dendritic cells to prime IL-31 producing TH2 cells promoting pruritus and granulocytic inflammation**
C. Gomez-Casado, P. Olah, Z. Unger, A. Datsi, K. Raba, M. Perrot-Dockes, U. Raap, R. Sorg, V. Julia, V. Soumelis, C. Schlapbach, B. Homey; Duesseldorf, Paris, Oldenburg, Lausanne, Bern

Infectious Diseases

- P170** **Transcriptional profiling of Staphylococcus aureus during the transition from asymptomatic nasal colonization to skin infection in atopic dermatitis**
J. Schulte, P. Lee, C. Wolz, A. Yazdi, M. Burian; Aachen, Tuebingen
- P171** **Regulation of necroptosis via HSV-1 infections on human keratinocytes**
P. Lee, L. Freund, K. Schaekel; Heidelberg
- P172** **Azole resistance assays indicate that Trichophyton schönleinii is azole sensitive compared to closely related T. quinckeanum subtypes, which is accompanied by variability of sterol-14α demethylase Erg11A protein sequences**
A. Burmester, P. Winter, J. Tittelbach, C. Wiegand; Jena

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- P173** **Low doses of fluconazole or voriconazole induce large increases of sterol 14 α demethylase Erg11A and multidrug resistance transporter MDR3 transcripts in several *T. indotineae* isolates**
N. Berstecher, A. Burmester, J. Tittelbach, C. Wiegand; Jena
- P174** **Expression of MIF receptor CD74 is associated with the expansion and differentiation of cytotoxic CD8⁺ T cells in COVID-19 patients**
J. Westmeier, K. Paniskaki, A. Brochtrup, Z. Karakoese, T. Werner, K. Sutter, S. Dolff, A. Limmer, M. Berger, T. Brenner, O. Witzke, M. Trilling, N. Babel, U. Dittmer, G. Zelinsky; Muenster, Essen, Herne, Erlangen
- P175** **ICER expression on Nkp46-positive NK cells/ILC1 controls immunity to cutaneous leishmaniasis**
X. Liu*, B. Lorenz*, D. Lukas*, M. Reibetanz*, S. Koenen-Waisman, T. Bopp, T. Bohn, A. Waisman, E. von Stebut; Mainz, Cologne

Pharmacology

- P176** **MRGPRX2 Small Molecule Antagonists Potently Inhibit Agonist-Induced Skin Mast Cell Degranulation**
S. Frischbutter, J. Wollam, M. Solomon, C. Villescaz, S. Evans, D. Freeman, A. Vasquez, C. Pisacane, A. Vest, J. Napora, B. Charlot, C. Cavarlez, A. Kim, V. Viswanath, M. Metz; Berlin, San Diego

Photobiology

- P177** **Mitochondrial dysfunction in Xeroderma pigmentosum type A (XPA) causes UV-induced collapse of proteostasis due to lack of ATP**
M. Majora, R. Bhattacharjee, S. Dangeleit, A. Rossi, J. Krutmann; Duesseldorf
- P178** **Mice with HIF-1 α /AHR-double deficient keratinocytes share similarities with UVB-exposed wildtype littermates**
J. Schindler, H. Ramachandran, S. Lehmann, M. Majora, T. Haarmann-Stemmann, C. Esser, A. Rossi, H. Weighardt, S. Fassbender, J. Krutmann; Duesseldorf, Bonn
- P179** **Assessment of temperature and humidity induced by a medical device for red light photodynamic therapy**
L. van Dyk, D. Trnka, S. Emmert, S. Rode, M. Mann, R. Panzer; Rostock
- P180** **Assessment of Penetration Depth and Cytotoxicity of Titanium Dioxide Nanoparticles on Skin with Barrier Defects**
P. Ficht, A. Staffeld, M. Katsanou, P. Moritz, W. Maus-Friedrichs, L. Wegewitz, S. Emmert, L. Boeckmann; Rostock, Clausthal-Zellerfeld
- P181** **Filtered 222nm UVC irradiation did not induce detectable CPD formation in skin reconstructs even at high and repetitive doses for bacterial killing**
I. Ivanova, T. Svilenska, B. Kurz, S. Grobecker, T. Maisch, M. Berneburg, Y. Kamenisch; Regensburg

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- P182** **The role of UV-induced DNA damage, matrix metalloproteases and mi-RNAs in the pathogenesis of cutaneous and systemic lupus erythematosus**
I. Ivanova, S. Wallner, S. Arndt, P. Unger, T. Maisch, S. Karrer, M. Berneburg, B. Kurz;
Regensburg

Pruritus

- P183** **4-1BB and its ligand are upregulated by itch-associated cytokines and seem to mediate neuroimmune communication**
C. Kritsima, V. Kupas, N. Mykicky, S. Staender, T. Luger, K. Loser; Oldenburg, Muenster
- P184** **Altered epidermal neuroanatomy and increased local sensitivity driven by scratching in different entities of chronic pruritus**
L. Renkhold, H. Wiegmann, L. Stahl, B. Pfliederer, A. Sueer, C. Zeidler, M. Pereira, M. Schmelz, S. Staender, K. Agelopoulos; Muenster, Berlin, Mannheim
- P185** **Mechanical stress in pruritus pathogenesis and chronicity**
H. Wiegmann, L. Renkhold, G. Schmitz, J. Wolters, S. Staender, K. Agelopoulos;
Muenster
- P186** **Recovery of altered marker gene expression, intraepidermal neuroanatomy and neurophysiology in pruritic lesional skin of atopic dermatitis patients after treatment with dupilumab**
F. Witte, K. Agelopoulos, L. Renkhold, H. Wiegmann, C. Zeidler, S. Staender; Muenster
- P187** **Quality of life across patients with chronic pruritus of various etiologies: results of a national research consortium (FOR 2690)**
A. Sueer, S. Staender, K. Agelopoulos, B. Pfliederer, C. Sommer, F. Birklein, B. Homey, U. Raap, A. Kremer, M. Dugas, J. Varghese, M. Schmelz;
Muenster, Wuerzburg, Mainz, Duesseldorf, Oldenburg, Erlangen, Zuerich, Heidelberg, Mannheim

Tumor Biology

- P188** **Alpha-Melanocyte-stimulating hormone and its impact on MDSC generation in skin cancer**
A. Arndt, N. Mykicky, U. Raap, K. Loser; Oldenburg
- P189** **Overexpression of DIRAS1 in mouse skin reduces tumorigenesis during multi-stage chemical carcinogenesis**
P. Meisel, T. Kolbe, M. Dahlhoff; Vienna
- P190** **The Influence of Nras and Trp53 Point Mutations on Melanoma Plasticity and the Tumor Microenvironment**
S. Vadder, F. AbdelAziz, V. Hong Pham, M. Hoelzel, N. Glodde; Bonn
- P191** **Use of a chick chorioallantoic membrane-based uveal melanoma patient-derived xenograft model to assess the therapeutic potential of calcium electroporation in comparison to electrochemotherapy with bleomycin**
R. Anastasova, T. Tsimpaki, H. Liu, N. E. Bechrakis, B. Seitz, S. Dalbah, U. Berchner-Pfannschmidt, M. Fiorentzis; Essen, Homburg

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- P192** **Electroporation in combination with calcium chloride or bleomycin in chick chorioallantoic membrane tumor xenografts from uveal melanoma cell lines as a potential adjuvant treatment modality**
T. Tsimpaki, R. Anastasova, H. Liu, N. Bechrakis, B. Seitz, U. Berchner-Pfannschmidt, M. Fiorentzis; Essen, Homburg
- P193** **Melanoma cell-derived extracellular vesicles transport miR-92b-3p and mediates the formation of carcinoma-associated fibroblasts by targeting PTEN**
S. Kewitz-Hempel, N. Windisch, G. Hause, L. Mueller, C. Sunderkoetter, D. Gerloff; Halle (Saale)
- P194** **A prospective clinical trial in melanoma patients with bone involvement addressing immunological effects of the RANKL-inhibitor denosumab in combination with dual checkpoint inhibition**
K. Schaper-Gerhardt, R. Gutzmer, Y. Angela, L. Zimmer, E. Livingstone, D. Schadendorf, J. Hassel, C. Weishaupt, B. Remes, L. Kubat, I. Spassova, J. Becker; Minden, Hannover, Essen, Heidelberg, Muenster, Giessen
- P195** **Role for Girdin and Daple in melanoma progression and therapy resistance**
A. Villar, B. Schitteck; Tuebingen
- P196** **Exploring primary malignant melanoma with single-cell multiomics: An investigation of cellular crosstalk and immune escape**
A. Stubenvoll, M. Schmidt, H. Binder, H. Loeffler-Wirth, B. Frost, C. Schultz, A. Ertel, M. Kunz; Leipzig
- P197** **Melanoma cells induce tumor promoting properties in astrocytes supporting establishment and outgrowth of brain metastases**
R. Schoenherr, S. Egea-Rodríguez, D. Herrera-Rios, I. Helfrich; Munich, Essen
- P198** **Exploring the Therapeutic Potential of BRAFi+MEKi in NRAS Mutated Melanoma: A Preclinical In Vivo Study Using PDX Models**
H. Niessner, T. Wagner, L. Froehlich, T. Sinnberg; Tuebingen, Berlin, Reutlingen
- P199** **Exploring ErbB Family Receptor Inhibition: A Novel Therapeutic Approach for Resistant Melanoma Patients**
H. Niessner, O. Pop, A. Nurmammadova, T. Amaral, T. Sinnberg, L. Flatz; Tuebingen, St. Gallen, Berlin
- P200** **Elevating MAPK Pathway Suppression with Combinatorial ERK Inhibitors**
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