



**47th Annual Meeting
of the
Arbeitsgemeinschaft
Dermatologische Forschung**

in collaboration with the
Deutsche Dermatologische Gesellschaft (DDG)

March 04-06, 2021
VIRTUAL

By March 02, 2021

MEETING ORGANISATION

General Organisation, Registration, Networking Program

ADF office, Robert-Koch-Platz 7, 10115 Berlin, Germany

Contact: Elke Schmeckenbecher; Tel: +49 (0)30 24 62 53 16; E-Mail: info@adf-online.de

Registration Fee Free of charge!

Oral Presentations(OP)

Duration: 7 min.

Discussion: 5 min.

All talks should be pre-recorded followed by a virtual live discussion.

Posters (P)

Virtual eposter only!

All Oral Presentations will also have to be presented as posters!

Certification:

The 47. ADF Meeting ist certificated by the Ärztekammer Berlin with 3 CME per Day, March 4/5/6, 2021, in total 9 CME.

No DFG session in 2021!

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

Wednesday, March 03, 2021:

WG01: Cutaneous Lymphoma 09:00-13:00

Chair: E. Guenova

WG03: Translational Dermatological Genetics 09:00-13:00

Chairs: C. Has; V. Oji

WG04: Epidemiology & Health Service Research 09:00-13:00

Chairs: C. Apfelbacher

WG05: Experimental Dermatooncology 14:00-17:30

Chairs: T. Tueting

**WG06: Experimental Allergology
& Mast Cells and Basophils** 15:00-18:00

Chairs: C. Moebis

Thursday, March 04, 2021:

WG02: Autoimmun blistering skin diseases 08:00-12:30

Chair: M. Sticherling

All Working Group sessions are virtual sessions organised by the chairs of the working groups.

Links to the WG-Sessions:

Cutaneous Lymphoma:

WG01: March 3. 2021, 09:00-13:00

Virtual venue via Zoom: <https://unil.zoom.us/j/9076564604>

Meeting-ID: 907 656 4604

Kenncode: SAC

Translational Dermatological Genetics

WG03: March 3. 2021, 09:00-13:00

Virtual venue via Zoom: <https://us02web.zoom.us/j/89765710515?pwd=ZUVqcEtRWGhNOVA1aS9ITGJaNXhpZz09>

Meeting-ID: 897 6571 0515

Kenncode: 905617

Epidemiology & Health Service Research:

WG04: 3. März 2021, 09:00-13.00

Virtual venue via Zoom: <https://ovgu.zoom.us/j/94927742026>

Meeting-ID: 949 2774 2026

Code: 335552

Experimental Dermatooncology:

WG05: March 3. 2021, 14:00-17:30

Virtual venue via Zoom:

<https://ovgu.zoom.us/j/93606105789?pwd=L3IsaFUxVGNxL2ZYZzE0ekIQaU9Fdz09>

Experimental Allergology & Mast Cells and Basophils

WG06: March 3. 2021, 15:00-18:00

Virtual venue via webex: Join the meeting.

or

<https://webex.com>

Meeting-ID: 121 751 5668

Code: AGEA2021

Autoimmun blistering skin diseases:

WG02: March 4. 2021, 08:00-12:30

Virtual venue via webex: <https://uk-erlangen.webex.com/uk-erlangen/j.php?MTID=m6dff182904163dc92a23ba459bdd92bb>

or

<https://webex.com>

Meeting-ID: 181 119 6624

Code: qMMVVZBe828

No Meeting of the following working groups in 2021:

Atopic Dermatitis + Skin Barrier

Pruritus Research

The programme of the working group meetings, additional details (chair, contact person, etc.) as well as information about the meetings can be found on the ADF Homepage (www.adf-online.de).

About the 47. Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung

Dear Colleagues and Friends,

We would like to warmly welcome you to the 47th Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung. The 47 th meeting is also our first completely virtual conference. For this reason, some necessary changes have been made in the program.

We received 250 abstracts out of which in this year only 20 were chosen for oral presentation based on the recommendations of the reviewers. There will be three Quo Vadis Lectures with 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 from 2020 and 2021 will present their work. Additionally the ADF/ECARF Award, three awards for Dermato-Oncology and six 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.

All oral presentations and posters are presented as eposters. There will be 10 poster walks for selected topics. The eleven best posters nominated by the poster committee will receive a poster award at the end of the meeting.

Additional highlights of this year's annual meeting are the Guenter Goerz Memorial Lecture and the Guest Lecture, which will be given by Jean Krutmann (Düsseldorf) and Wolfgang Weninger (Vienna), respectively.

The ADF steering committee would like to thank Elke Schmeckenbecher and Birgit Barnickel for their continuous support and excellent organisation of our first virtual ADF meeting. We are looking forward to an exciting conference and hope to meet again in person at the ADF meeting 2022 in Innsbruck.

Evelyn Gaffal
President

Rüdiger Eming
Secretary

Christoffer Gebhardt
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. Boeckmann, Rostock	C. Kosnopfel, Wuerzburg	A. Thiem, Rostock
S. Eyerich, Munich	V. Lorenz, Goettingen	U. Uslu, Erlangen
M. Farlik, Vienna	E. Neubert, Amsterdam	L. von Meyenn, Bern
S. Franz, Leipzig	A. Paschen, Essen	A. Vorobyev, Luebeck
G. Geidel, Hamburg	O.-D. Persa, Cologne	V. Wally, Salzburg
M. Heppt, Erlangen	E. Rodríguez, Kiel	N. Yogev, Cologne
M. Hoelzel, Bonn	L. Rösner, Hanover	C. Zielinski, München

Poster walks and poster committee

Adaptive Immunity (V. Raker); PW02/04	Innate Immunity (B. Meier-Schiesser); PW01/04
Mast cells and Basophils & Allergy (C. Moebis); PW01/01	Psoriasis (A. Boehner); PW01/03
Autoimmunity (C. Guenther); PW02/02	Translational Research (K. Schaekel); PW02/05
Cellular Biology (L. Eckhart); PW02/03	Tumor Biology (L. Flatz); PW01/02
Epidemiology & Health Service Research (W. Ludwig-Peitsch); PW01/05	Tumor Immunology (N. Glodde); PW02/01

We thank *AbbVie Deutschland GmbH & Co.KG, Almirall Hermal GmbH, Bayer Vital GmbH, Bristol-Myers Squibb GmbH & Co. KGaA, Janssen-Cilag GmbH, Lilly Deutschland GmbH, Novartis Pharma GmbH and Sanofi-Aventis Deutschland GmbH* for their kind support.

All poster walkers are also members of the poster committee, which is coordinated by Claudia Guenther and Knut Schaekel.

Thursday, March 04, 2021

12:30-13:15 **Satellite Symposia:**
News from our pharmaceutical partners (see page 12-14)

13:15_13:30 **Break**

13:30-13:40 **Welcome Address**
E. Gaffal

13:40-14:30 **Oral Presentations I**
Chairs: K. Ghoreschi, S. Eyerich

OP01/01 13:42 **A Novel Role of Redox Sensitive JunB in Fibroblasts Disrupting Stem**
(P026) **Cell Niche Homeostasis with Severe Skin Aging**
P. Maity, K. Singh, L. Krug, A. Koroma, W. Bloch, S. Kochanek, M. Wlaschek,
M. Schorpp-Kistner, P. Angel, A. Ignatius, H. Geiger, K. Scharffetter-Kochanek;
Ulm, Cologne, Heidelberg, Cincinnati, OH

OP01/02 13:54 **Interferon Unresponsive Melanomas Resist CD8 T cell Immunity but**
(P197) **can be Targeted with CD4 ACT and Salvage Virotherapy**
J. Ruotsalainen, N. Shridhar, K. Zamecnikova, S. Gellert, A. Buzzai, J. Peters,
B. Kruse, S. Bonifatius, S. Gieseler-Halbach, D. Schanze, M. Essand, E. Gaffal,
T. Tueting; Magdeburg

OP01/03 14:06 **Acidosis promotes immune escape by interferon- γ -induced**
(P202) **transcriptional induction of PD-L1 via the eIF4F-STAT1-PD-L1 axis on**
cancer cells
P. Knopf, S. Hoffmann, N. Hermann, A. Maurer, V. Bucher, M. Poxleitner,
B. Tako, D. Sonanini, S. Sinharay, B. Fehrenbacher, I. Gonzalez-Menendez,
D. Kramer, M. Schaller, L. Quintanilla-Martinez, K. Schulze-Osthoff, M. Pagel,
A. Ferreira Martins, M. Fransen, B. Pichler, K. Ghoreschi, M. Kneilling;
Tuebingen, Houston, Leiden, Berlin

OP01/04 14:18 **The Gut-Skin Axis: Bacterial Stimulation in the Gut Shapes Hapten-**
(P001) **driven Inflammation of the Skin.**
V. Raker, N. Roehrig, T. Schmidt, C. Reinhardt, R. Rosenstein, F. Bayer,
S. Muecklich, K. Steinbrink; Mainz, Tuebingen, Muenster

14:30-14:45 **ADF Awards I**
(Short presentation of awardee)
Paul Langerhans Award 2020*
M. Hertl

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

14:45-15:00 **Break**

15:00-15:30 Quo Vadis Lecture I
 A. Viros, Manchester:
How ageing shapes the course of melanoma
 Introduction: C. Gebhardt

15:30-16:30 Oral Presentations II
Chairs: K. Hartmann, C. Géraud

OP02/01 15:32 (P094) **Immune complexes induce a patrolling response in non-classical monocytes**
 S. Preuss, H. Zhang, J. Young, J. Spatz, U. Engel, S. Oehrl, F. Oлару, K. Schaekel; Heidelberg

OP02/02 15:44 (P110) **Delineating the pathogenetic relevance of autoreactive T cells against desmoglein 3 in pemphigus vulgaris**
 L. Scarsella, V. Korff, K. Kuehn, D. Didona, C. Hudemann, B. Beckert, R. Tickanen, S. Wienzek-Lischka, G. Bein, G. Di Zenzo, J. Boehme, F. Solimani, J. Kurzhals, J. Pieper, H. Juratli, M. Goebel, T. Schmidt, L. Borradori, C. Sitaru, S. Fleischer, R. Eming, M. Hertl, R. Pollmann;
 Marburg, Giessen, Rome, Berne, Freiburg, Hamburg

OP02/03 15:56 (P124) **Innate lymphoid cells contribute to the control of cutaneous leishmaniasis.**
 D. Lukas, B. Lorenz, M. Reibetanz, S. Koenen-Waisman, G. Gasteiger, S. Wirtz, E. Vivier, N. Yogeve, E. von Stebut; Cologne, Wuerzburg, Erlangen, Marseille

OP02/04 16:08 (P116) **Identifying hidden drivers of heterogeneous inflammatory skin diseases**
 N. Garzorz-Stark, R. Batra, F. Lauffer, M. Jargosch, C. Pilz, S. Roenneberg, A. Schaebitz, A. Boehner, P. Seiringer, J. Thomas, B. Fereydouni, G. Kutkaite, M. Menden, L. Tsoi, J. Gudjonsson, F. Theis, T. Biedermann, C. Schmidt-Weber, N. Mueller, S. Eyerich, K. Eyerich;
 Stockholm, Munich, Neuherberg, Ann Arbor, Garching, New York

16:30-16:45 Break

16:45-17:00 ADF Awards II
 (Short presentations of awardee)
Egon Macher Award 2020*
 S. Eming
**The ADF thanks AbbVie GmbH Deutschland for the kind support.*

17:00-17:45 GUENTER GOERZ MEMORIAL LECTURE
 J. Krutmann, Duesseldorf
Skin and Environment
 Introduction: E. Gaffal, Magdeburg

**17:45-20:00 Get Together:
POSTER SESSION (ALL POSTERS)**

INCLUDING:

18:00-19:00 Poster Walks I, (PW01)

PW01/01 Mast cells and Basophils & Allergy
C. Moebis; Marburg

PW01/02 Tumor Biology
L. Flatz; Tuebingen

PW01/03 Psoriasis
A. Boehner; Munich

PW01/04 Innate Immunity
B. Meier-Schiesser; Zurich

PW01/05 Epidemiology & Health Service Research
W. Ludwig-Peitsch; Berlin

Friday, March 05, 2021

12:30-13:15 **Satellite Symposia:**
News from our pharmaceutical partners (see page 12-14)

13:15-13:30 **Break**

13:30-14:30 **Oral Presentations III**
Chairs: C. Zielinski, W. Hoetzenecker

OP03/01 13:32 **Interferon-independent enhancement of melanoma cell**
(P156) **immunogenicity by RIG-I activation**
 B. Thier, L. Such, V. Peller, M. Schwamborn, A. Sucker, C. Coch, D. Schadendorf,
 K. Griewank, M. Trilling, F. Zhao, A. Paschen; Essen, Bonn

OP03/02 13:44 **Profiling of Acne inversa reveals disease-specific but also psoriasis-**
(P069) **related pathogenetic pathways, which may explain the increased**
 prevalence of concomitant psoriasis among AI patients
 K. Wolk, G. Kokolakis, T. Brembach, O. Shomroni, A. Tsaousi, G. Lux,
 E. Witte-Haendel, I. Fatschild, R. Moessner, J. Wasem, D. Delic, G. Salinas,
 H. Volk, K. Ghoreschi, R. Sabat; Berlin, Goettingen, Essen, Biberach

OP03/03 13:56 **Modulation of inflammatory processes in the skin through regulation**
(P247) **of macrophage activation by sulfated hyaluronan**
 S. Meyer, P. Zager, S. Rother, A. Berg, S. Moeller, M. Schnabelrauch, J. Simon,
 V. Hintze, S. Franz; Leipzig, Dresden, Jena

OP03/04 14:08 **Type 17 T follicular helper cells promote desmoglein 1/3-specific**
(P131) **autoantibody production in pemphigus**
 J. Holstein, F. Solimani, C. Baum, K. Meier, P. Robert, D. Didona, T. Tekath,
 M. Dugas, N. Casadei, J. Matthes, I. Schaefer, A. Polakova, C. Hudemann,
 R. Stach, A. Yazdi, R. Eming, M. Hertl, W. Pfuetzner, G. Kamran, C. Moebs;
 Tuebingen, Berlin, Marburg, Munster, Aachen

14:30-14:45 **ADF Awards III**
 (Short presentation of awardee)
Paul Langerhans Award 2021*
 K. Ghoreschi

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

14:45-15:00 **Break + Best of ADF Winter School 2020**

15:00-15:30 **Quo Vadis Lecture II**
 C. Marr, München
Artificial Intelligence for Biomedical Data Analysis
 Introduction: M. Fabri

15:30-16:30 Poster Walks II, (PW02)

PW02/01 Tumor Immunology
N. Glodde; Bonn

PW02/02 Autoimmunity
C. Guenther; Dresden

PW02/03 Cellular Biology
L. Eckhart; Vienna

PW02/04 Adaptive Immunity
V. Raker; Mainz

PW02/05 Translational Research
K. Schaekel; Heidelberg

16:30-16:45 Break + Best of ADF Winter School 2020

16:45-17:00 ADF Awards IV
(Short presentations of awardee)
Egon Macher Award 2021*
K. Loser

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

17:00-18:00 GUEST LECTURE
Wolfgang Weninger, Vienna
A new macrophage precursor in adult murine bone marrow
Introduction/discussion: G. Stary

18:00-19:00 ADF General Assembly
(for agenda please see ADF-Homepage, www.adf-online.de)

Saturday, March 06, 2021

09:00-09:45 **Satellite Symposia:**
News from our pharmaceutical partners (see page 12-14)

09:45-10:00 **Break**

10:00-11:00 **Oral Presentations IV**
Chairs: N. Garzorz-Stark, L. Flatz

OP04/01 10:02 **Mast cells instruct keratinocytes to produce TSLP ? relevance of the**
(P146) **tryptase/PAR-2 axis**
D. Redhu, K. Franke, A. Illerhaus, K. Hartmann, M. Babina, M. Worm;
Berlin, Cologne, Basel

OP04/02 10:14 **High-dose immunoglobulins induce T regulatory (Treg) cells which**
(P100) **downregulate desmoglein 3-specific IgG antibodies in a human**
leukocyte antigen-transgenic mouse model of pemphigus vulgaris
R. Eming, S. Schimo, E. Rentz, M. Hertl, C. Hudemann; Marburg, Dreieich

OP04/03 10:26 **Myeloperoxidase plays an important role in epidermolysis bullosa**
(P071) **acquisita**
S. Murthy, L. Kroeger, D. Zillikens, C. Sadik; Luebeck

OP04/04 10:38 **Topical application of Adenosine A2 receptor agonists to skin prevents**
(P154) **contact hypersensitivity reactions in mice by affecting skin residing**
Dendritic cells
C. Silva-Vilches, A. Enk, K. Mahnke; Heidelberg

11:00-11:30 **Quo Vadis Lecture III**
C. Schlapbach, Bern
Novel T helper cell subsets: Back to the future?
Introduction: T. Buhl

11:30-11:45 **Break**

11:45-12:45

Oral presentations V

Chairs: L. Erpenbeck, M. Schmuth

**OP05/01 11:47
(P225)**

Role of DAMPs for immunoresistance towards anti-PD-1 immunotherapy in advanced melanoma

G. Geidel, A. Bauer, D. Wicklein, U. Schumacher, S. Schneider, C. Gebhardt; Hamburg

**OP05/02 11:59
(P032)**

Volume-regulated anion channel LRRC8 interferes with differentiation of human keratinocytes

M. Jahn, V. Lang, D. Scheub, K. Przibilla, D. Ritzmann, S. Diehl, P. Scholz, R. Kaufmann, O. Rauh, T. Fauth, C. Buerger; Frankfurt a.M., Zwingenberg, Darmstadt

**OP05/03 12:11
(P138)**

Complex interactions between Gut Microbiota and the Mitochondria contribute to the pathogenesis of Autoimmune Skin Diseases

A. Tietje, P. Schilf, M. Olbrich, M. Hirose, S. Kuenzel, A. Kuenstner, H. Busch, C. Sadik, J. Baines, S. Ibrahim; Luebeck, Ploen, Kiel

**OP05/04 12:23
(P205)**

STAT5 is a therapeutically targetable vulnerability in leukemic cutaneous T-cell lymphoma

S. Dey, H. Sorger, P. Vieyra-Garcia, E. Araujo, R. Graf, B. Spiegl, M. Schleder, T. Graier, I. Perchthaler, R. Fink-Puches, L. Cerroni, M. Surbek, C. Pirker, W. Berger, A. Orlova, M. Herling, O. Merkel, H. Neubauer, P. Gunning, E. Heitzer, L. Kenner, R. Moriggl, P. Wolf; Graz, Vienna, Mississauga, Cologne,

12:45-13:10

ADF Awards V

ADF Dermato Oncology Award*, M. Kunz

ADF/ECARF Award for European Allergy Research**

T. Zuberbier

ADF Translational Research Awards***, J. M. Baron

ADF Atopic Dermatitis Research Award****, R. Eming

Thanks from the ADF to the

**Erwin & Irmgard Egner-Stiftung*

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

****Novartis Pharma GmbH*

*****Sanofi-Aventis Deutschland GmbH*

POSTER AWARDS*

Chairs: C. Guenther, K. Schaeckel

**The ADF thanks Almirall Hermal GmbH, Dr. August Wolff GmbH & Co. KG Arzneimittel, BioLegend GmbH and Lilly Deutschland GmbH for their support.*

13:10-13:20

Acknowledgements, Farewell, End of Meeting

T. Buhl

NEW in PROGRAM: **Satellite Symposia:**
News from our pharmaceutical partners

Thursday, March 04, 2021

- 12:30-13:15** **SatS01** **Lilly Deutschland GmbH:**
***Targeting the JAK-STAT pathway. Baricitinib –
the first JAK inhibitor in atopic dermatitis***
T. Buhl, Göttingen
- 12:30-12:45** **SatS02/01** **Bayer Vital GmbH:**
***MMP-3 plays a major role in calcium pantothenate-
promoted Wound healing after fractional ablative
laser treatment***
S. Huth, Aachen
- 12:45-13:00** **SatS02/02** **UCB Pharma GmbH**
***New approaches of IL17 inhibition:
Evolution or Revolution?***
G. Kokolakis, Berlin
- 13:00-13:15** **SatS02/03** **Bristol-Myers Squibb GmbH & Co. KGaA:**
***Acute and early forms of psoriasis –
The role of type-1-interferons***
M.P. Schön, Göttingen

Supported Posterwalks:

- 18:00-19:00** **Poster Walks I, (PW01)**
- PW01/01** **Mast cells and Basophils & Allergy**
C. Moebis; Marburg
- PW01/02** **Tumor Biology**
L. Flatz; Tuebingen
- PW01/03** **Psoriasis**
A. Boehner; Munich
- PW01/04** **Innate Immunity**

B. Meier-Schiesser; Zurich

PW01/05 **Epidemiology & Health Service Research**
W. Ludwig-Peitsch; Berlin

We thank *AbbVie Deutschland GmbH & Co.KG, Almirall Hermal GmbH, Bayer Vital GmbH, Bristol-Myers Squibb GmbH & Co. KGaA, Janssen-Cilag GmbH, Lilly Deutschland GmbH, Novartis Pharma GmbH, Sanofi-Aventis Deutschland GmbH and UCB Pharma GmbH* for their kind support.

Friday, March 05, 2021

12:30-13:15 **SatS03** **Novartis Pharma GmbH:**
Urticaria research examples illustrating golden rules of effective scientific communication
M. Maurer, Berlin; M. Church, Berlin

12:30-12:45 **SatS04/01** **Janssen-Cilag GmbH:**
Beitrag zurückgezogen

12:45-13:00 **SatS04/02** **Sanofi-Aventis Deutschland GmbH**
Typ-2 inflammation in focus
J. Kleine-Tebbe, Berlin

13:00-13:15 **SatS04/03** **Almirall Hermal GmbH**
Actinic keratoses– state of the art 2021
L. Schmitz, Bonn

Supported Posterwalks:

15:30-16:30 **Poster Walks II, (PW02)**

PW02/01 **Tumor Immunology**
N. Glodde; Bonn

PW02/02 **Autoimmunity**
C. Guenther; Dresden

PW02/03 **Cellular Biology**
L. Eckhart; Vienna

PW02/04 Adaptive Immunity

V. Raker; Mainz

PW02/05 Translational Research

K. Schaekel; Heidelberg

We thank *AbbVie Deutschland GmbH & Co.KG, Almirall Hermal GmbH, Bayer Vital GmbH, Bristol-Myers Squibb GmbH & Co. KGaA, Janssen-Cilag GmbH, Lilly Deutschland GmbH, Novartis Pharma GmbH, Sanofi-Aventis Deutschland GmbH and UCB Pharma GmbH* for their kind support.

Saturday, March 06, 2021

**09:00-09:45 Satellite Symposia:
News from our pharmaceutical partners**

**09:00-09:45 SatS05: AbbVie Deutschland GmbH & Co.KG:
*Avoid Cumulative Life Course Impairment of
dermatological diseases: Perspectives for Psoriasis
and Atopic Dermatitis***
M. Augustin, Hamburg; A. Pinter, Frankfurt/Main

**09:30-09:45 SatS06/01: La Roche Posay Laboratoire
Dermatologique
*Biofilm on skin – something we should care for?***
M. Reiger, Augsburg

POSTER SESSION

All posters: Thursday, March 04, 17:45-20:00 Uhr

Allergy

- P001 (OP01/04) The Gut-Skin Axis: Bacterial Stimulation in the Gut Shapes Hapten-driven Inflammation of the Skin.**
V. Raker, N. Roehrig, T. Schmidt, C. Reinhardt, R. Rosenstein, F. Bayer, S. Muecklich, K. Steinbrink; Mainz, Tuebingen, Muenster
- P002 Sodium is an ionic checkpoint for Th2 cell responses and shapes the atopic skin microenvironment**
J. Matthias, C. Zielinski; Jena, Munich
- P003 Comparison of the safety profiles of three different Hymenoptera venom immunotherapy protocols - a retrospective two-center study of 143 patients**
I. Pospischil, M. Kagerer, A. Cozzio, I. Angelova-Fischer, E. Guenova, B. Ballmer-Weber, W. Hoetzenecker; Linz, St. Gallen, Zurich, Lausanne
- P004 Supporting next-generation sequencing results via absolute quantification**
C. Huelpuesch, A. de Tomassi, A. Neumann, M. Reiger, C. Traidl-Hoffmann; Augsburg, Davos, Munich
- P005 Bidirectional activation of blood eosinophils and skin mast cells by secreted mediators and direct cell-cell contact.**
S. Frischbutter, J. He, I. Wyrosiak, S. Moñino-Romero, P. Kolkhir, J. Scheffel, M. Church, M. Maurer; Berlin, Luzhou, Moscow
- P006 In chronic spontaneous urticaria, basopenia/eosinopenia and basophil/eosinophil numbers in lesional skin are linked to clinical and laboratory features of type IIb autoimmunity**
Q. Jiao, K. Lohse, M. Rauber, P. Kolkhir, S. Frischbutter, M. Maurer, S. Altrichter; Berlin, Suzhou, Giessen, Moscow
- P007 Expression of histamine receptors H2R and H4R are predominantly regulated via the IL-4/IL-13 receptor type II on human M2 macrophages**
S. Mommert, M. Jahn, K. Schaper-Gerhardt, R. Gutzmer, T. Werfel; Hannover
- P008 The H4R is upregulated via Th2-cytokines and has immunomodulatory effects on human eosinophils from atopic dermatitis patients**
K. Schaper-Gerhardt, B. Koether, M. Gehring, L. Wolff, A. Kabatas, E. Nikolouli, S. Mommert, T. Werfel, R. Gutzmer; Hannover
- P009 Soluble IgE receptors and their potential use as biomarker in food allergy**
C. Steinert, S. Moñino-Romero, S. Doelle-Bierke, M. Worm, M. Maurer, S. Altrichter; Berlin
- P010 Sub-pressure assisted application of sharp hollow microneedles for improved recovery of biomarkers from skin interstitial fluid (ISF) as compared to microdialysis**
N. Shi, M. Hillmering, P. Rangsten, A. Klein, C. Vera-Ayala, S. Moñino-Romero, M. Maurer, M. Renlund, J. Scheffel; Berlin, Kista

P011 Modulation of allergic contact dermatitis via unfolded protein response
P. Esser, F. Gendrisch, S. Martin; Freiburg i. Br.

P012 Autoallergic CSU patients exhibit a distinct sensitization profile to exoallergens
Y. Xiang, J. Scheffel, P. Kolkhir, S. Moñino-Romero, M. Maurer, S. Altrichter;
Berlin, Moscow

Cellular Biology

P013 Molecular biological effects of laser-assisted tattoo removal and aftercare treatment studied in a novel 3D tattoo skin model
Y. Marquardt, R. Heise, S. Huth, S. Soemantri, K. Hoffmann, L. Huth, H. Heise, J. Baron;
Aachen, Bochum, Duesseldorf

P014 Proliferating tumour cells mimic glucose metabolism of mature human erythrocytes
M. Ghashghaeinia, M. Koeberle, U. Mrowietz, I. Bernhardt; Kiel, Munich, Saarbruecken

P015 Induction of psoriasis- and atopic dermatitis-like phenotypes in 3D skin equivalents
B. Morgner, R. Riedl, C. Wiegand; Jena

P016 MSCs Escape Energy Crisis by Rerouting Metabolism Towards β -Oxidation Implications for Trauma and Diabetic Wound Healing
A. Basu, P. Maity, K. Singh, H. Geiger, M. Huber-Lang, K. Scharffetter-Kochanek; Ulm

P017 MSCs Rescue Impaired Wound Healing in a Murine LAD1 Model by Adaptive Responses to Low TGF- β 1 Levels
D. Jiang, K. Singh, J. Muschhammer, S. Schatz, A. Sindrilaru, E. Makrantonaki, Y. Qi,
M. Wlaschek, K. Scharffetter-Kochanek; Ulm

P018 Fascia fibroblasts swarm to drive scar formation through N-cadherin
D. Jiang, S. Christ, D. Correa-Gallegos, P. Ramesh, S. Kalgudde Gopal, J. Wannemacher,
C. Mayr, V. Lupperger, Q. Yu, H. Ye, M. Mueck-Haeusl, V. Rajendran, L. Wan, J. Liu,
U. Mirastschijski, T. Volz, C. Marr, H. Schiller, Y. Rinkevich; Munich, Berlin, Bremen

P019 The role of scramblases for the shedding of CD137 in epithelial cells
S. Leitzke, J. Seidel, M. Sperrhacke, K. Reiss; Kiel

P020 ADAM10/17 as regulator of CD137 function
J. Seidel, K. Reiss; Kiel

P021 mTORC1 activity in psoriatic lesions is mediated by aberrant regulation through the tuberous sclerosis complex (TSC)
V. Lang, A. Ferreri, S. Diehl, R. Kaufmann, C. Buerger; Frankfurt a.M.

P022 Understanding Impaired Clearance of Senescent Fibroblasts From Aging Skin Towards Therapeutical Implications
A. Koroma, K. Singh, M. Wlaschek, P. Maity, K. Scharffetter-Kochanek; Ulm

P023 Insulin Resistant Fibroblasts Impair Angiogenesis in Diabetic Conditions ? Implications for Novel Treatment Strategies
O. Storz, A. Koroma, K. Singh, M. Wlaschek, K. Scharffetter-Kochanek, P. Maity; Ulm

- P024** **The Adaptive Response of ABCB5+ Mesenchymal Stem Cells Differs in Old from Young Healthy Individuals upon Exposure to the Pathogen Signal LPS**
P. Haas, K. Singh, S. Munir, P. Maity, A. Basu, D. Crisan, C. Ganss, M. Wlaschek, M. Kluth, K. Scharffetter-Kochanek; Ulm, Heidelberg
- P025** **Angiogenin Secreted from ABCB5+ MSCs Improves Healing of Diabetic Wounds by Promoting Angiogenesis**
K. Singh, P. Maity, A. Koroma, S. VanderBeken, R. Pandey, P. Haas, L. Krug, A. Hainzl, M. Wlaschek, C. Ganss, S. Eming, M. Kluth, K. Scharffetter-Kochanek; Ulm, Heidelberg, Cologne, Senden
- P026 (OP01/01)** **A Novel Role of Redox Sensitive JunB in Fibroblasts Disrupting Stem Cell Niche Homeostasis with Severe Skin Aging**
P. Maity, K. Singh, L. Krug, A. Koroma, W. Bloch, S. Kochanek, M. Wlaschek, M. Schorpp-Kistner, P. Angel, A. Ignatius, H. Geiger, K. Scharffetter-Kochanek; Ulm, Cologne, Heidelberg, Cincinnati, OH
- P027** **TFIIE β mutation in trichothiodystrophy affects rRNA synthesis and performance**
T. Phan, P. Maity, K. Scharffetter-Kochanek, S. Iben; Ulm
- P028** **A novel strategy to generate patient derived mast cells from human induced pluripotent stem cells for studying mastocytosis**
Y. Luo, V. Vallone, S. Frischbutter, H. Stachelscheid, M. Maurer, F. Siebenhaar; Berlin
- P029** **Characterization of different immortalized keratinocyte cell lines as models for epidermal differentiation studies**
M. Jahn, D. Nayir, V. Lang, S. Diehl, D. Ritzmann, R. Kaufmann, R. Back, T. Ertongur-Fauth, C. Buerger; Frankfurt a.M., Zwingenberg
- P030** **A comprehensive picture of phosphoproteomic changes elicited by the SCF/KIT axis in human skin mast cells: significance of PI3K versus ERK1/2 to different cellular programs**
K. Franke, M. Kirchner, P. Mertins, M. Babina; Berlin
- P031** **Activation of STAT3 through the mTOR and MAPK pathway contributes to the inflammatory skin diseases**
A. Dmititriev, V. Lang, S. Diehl, R. Kaufmann, C. Buerger; Frankfurt a.M.
- P032 (OP05/02)** **Volume-regulated anion channel LRRC8 interferes with differentiation of human keratinocytes**
M. Jahn, V. Lang, D. Scheub, K. Przibilla, D. Ritzmann, S. Diehl, P. Scholz, R. Kaufmann, O. Rauh, T. Fauth, C. Buerger; Frankfurt a.M., Zwingenberg, Darmstadt
- P033** **A psoriasis-like cytokine milieu modulates mechanotransduction and cell adhesion in human epidermis**
J. Borowczyk, J. Drukala, N. Brembilla, W. Boehncke, M. Shutova; Geneva, Cracow
- P034** **Deciphering essential gene regulatory networks of cytokine-induced senescence**
M. Rentschler, M. Jarboui, C. Griessinger, H. Braumueller, M. Rosen, N. Simon, P. Roux, O. Bischof, M. Kneilling, M. Roecken, T. Wieder; Tuebingen, Paris
- P035** **Generation of the pTRE-fzd7+K5tTA mouse model for studies on keratinocyte stem cell homeostasis**
E. Makrantonaki, K. Singh, S. Schatz, I. Krikki, A. Brown, D. Jiang, A. Basu, P. Maity, M. Wlaschek, M. Dahlhoff, K. Scharffetter-Kochanek; Ulm, Wildeshausen, Munich

- P036** **Distinctive responses of microvascular endothelial cells in skin fibrosis**
A. Jelit, L. Micus, A. Lockmann, S. Koechy, M. Schoen, V. Lorenz; Goettingen
- P037** **A20 Promotes Ripoptosome Formation and TNF-Induced Apoptosis via cIAPs Regulation and NIK Stabilization in Keratinocytes**
M. Feoktistova, R. Makarov, A. Schneider, G. Hooiveld, T. Luedde, M. Leverkus, A. Yazdi, D. Panayotova-Dimitrova; Aachen, Duesseldorf, Wageningen

Chemokines/Cytokines

- P038** **Imiquimod-induced psoriasis-like dermatitis in mice depends on IL-17 signaling of keratinocytes**
S. Moos, A. Mohebiany, A. Waisman, F. Kurschus; Heidelberg, Mainz
- P039** **Apremilast effectively inhibits TNF α -induced pro-atherogenic responses in human endothelial cells**
M. Otto, B. Dorn, T. Jakob, I. Hrgovic; Giessen
- P040** **Differential involvement of IL-31/IL-31RA signaling in autoimmune skin diseases**
R. Aoki, E. Ergün, A. Arakawa, D. Hartmann, O. Horváth, T. Ruzicka, M. Flaig, L. French, I. Bagci; Munich, Istanbul, California

Clinical Research

- P041** **Tocilizumab treatment in patients with Schnitzler syndrome: an open-label proof-of-concept study**
H. Bonnekoh, S. Frischbutter, S. Roll, M. Maurer, K. Krause; Berlin
- P042** **Anatomical area-dependent wound healing duration in hidradenitis suppurativa after surgery**
V. Frings, B. Bauer, R. Schuster, M. Goebeler, D. Presser, A. Kerstan; Wuerzburg
- P043** **Raster-scan optoacoustic mesoscopy for objective and non-invasive evaluation of disease severity and therapy monitoring in atopic dermatitis**
T. Nau, J. Aguirre, L. Riobo, H. He, V. Ntziachristos, T. Biedermann, U. Darsow, F. Lauffer; Munich, Oberschleissheim
- P044** **Investigation of cold atmospheric pressure plasma and small molecules as innovative therapies for the treatment of squamous cell carcinomas of the skin in vitro and in vivo**
M. Schaefer, M. Semmler, F. Wendt, A. Frey, T. Fischer, R. Ramer, M. Hein, B. Hinz, P. Langer, S. Bekeschus, S. Emmert, L. Boeckmann; Rostock, Greifswald
- P045** **Establishing CD154 as a novel activation marker for detection of autoreactive T cells in pemphigus vulgaris**
A. Polakova, L. Kauter, A. Ismagambetova, C. Moebs, C. Hudemann; Marburg
- P046** **Optical coherence tomography for monitoring therapeutic effects in plaque psoriasis and atopic dermatitis**
L. Ha, D. Zillikens, R. Huber, D. Thaçi, H. Yasak, J. Hundt; Luebeck

- P047** **Assessment of Cold Atmospheric Pressure Plasma as Innovative Therapy for Treatment of Radiation Dermatitis using a Mouse Model**
T. Bernhardt, K. Manda, G. Hildebrandt, O. Stachs, S. Bekeschus, B. Vollmar, S. Emmert, L. Boeckmann; Rostock, Greifswald
- P048** **Adjuvant melanoma treatment: real-world data from the DACH region**
K. Schumann, J. Mangana, R. Dummer, M. Sindrilaru, L. Reinhardt, F. Meier, R. Gutzmer, K. Schatton, T. Amaral, T. Eigentler, W. Peitsch, U. Hillen, F. Ziller, D. Debus, L. Maul, C. Weishaupt, S. Boerger, S. Haferkamp, P. Terheyden, A. Thiem, M. Sachse, A.; Munich, Zurich, Ulm, Dresden, Hannover, Duesseldorf, Tuebingen, Friedrichshain, Neukoelln und Spandau, Chemnitz, Nuernberg, Basel, Muenster, Kassel, Regensburg, Luebeck, Rostock, Bremerhaven, Linz, Erlangen
- P049** **Site- and autoantigen- specific associations in mucous membrane pemphigoid lessons learned from a retrospective bicentric observational study**
N. van Beek, K. Kridin, E. Buehler, A. Kochan, S. Staender, R. Ludwig, I. Koenig, D. Zillikens, C. Guenther, E. Schmidt; Luebeck, Dresden
- P050** **Successful treatment of recalcitrant pemphigus vulgaris with the phosphodiesterase 4 inhibitor apremilast**
K. Meier, J. Holstein, F. Solimani, J. Waschke, K. Ghoreschi; Berlin, Tuebingen, Munich
- P051** **Breaking Down Barriers: Oxygen as a Potential Factor in Atopic Eczema Development**
J. Afghani, M. Reiger, C. Mueller, C. Traidl-Hoffmann; Freising, Augsburg, Davos, Munich
- P052** **Relevance of neutrophil extracellular traps during vessel damage in skin-limited IgA immune complex vasculitis**
S. Mayer-Hain, K. Gebhardt, M. Neufeld, J. Ehrchen, C. Mitschang, J. Roth, T. Vogel, K. Pappelbaum, C. Sunderkoetter; Muenster, Halle
- P053** **IMPROVE 1.0 ? Individual monitoring of psoriasis activity via regular online-app surveys in combination with clinical expertise**
S. Beicht, N. Garzorz-Stark, F. Lauffer, V. Baghin; Munich
- P054** **Is tumor mutational burden a prognostic marker in AJCC stage II melanoma?**
T. Sinnberg, H. Niessner, T. Amaral, T. Eigentler, C. Schroeder, E. Lindner, F. Hilke, I. Bonzheim, F. Fend, O. Riess, C. Garbe; Tuebingen, Berlin, Lisbon
- P055** **Neural networks for automated skin morphology segmentation**
C. Mess, M. Schmerder, S. Schneider, V. Huck; Hamburg

Dermato-Endocrinology

- P056** **Autophagy and apoptosis in human sebocytes**
A. Hossini, X. Hou, T. Exner, J. Eberle, A. Rabien, B. Fauler, E. Makrantonaki, C. Zouboulis; Dessau, Berlin, Ulm
- P057** **Melatonin and its metabolites regulate mitochondrial function in human melanoma cells**
F. Schedel, B. Bilska, A. Piotrowska, M. Zmijewski, E. Pyza, K. Steinbrink, M. Boehm, A. Slominski, M. Tulic, K. Kleszczynski; Muenster, Krakow, Gdansk, Birmingham at Alabama, Nice

- P058** **The alpha7 nicotinic acetylcholine receptor mediates the modulatory effect of the pharmacological agonist PHA-543613 in experimentally induced skin fibrosis**
A. Stegemann, V. Raker, K. Steinbrink, M. Boehm; Muenster, Mainz
- P059** **Hidradenitis suppurativa and comorbid disorders: An immunohistochemical real-world approach**
K. Kaleta, A. Hossini, G. Nikolakis, D. Almansouri, J. Knolle, C. Zouboulis; Dessau, Kraków
- P060** **The melanocortin tripeptide derivatives KdPT and WOL074-029 can modulate fibroblast activation in vitro**
M. Boehm, M. Soeberdt, C. Abels, K. Steinbrink, A. Stegemann; Muenster, Bielefeld

Dermatopathology

- P061** **Novel cold atmospheric plasma wound dressing promotes healing of split skin graft donor sites**
A. van Welzen, M. Hoch, P. Wahl, F. Weber, S. Rode, J. Tietze, L. Boeckmann, S. Emmert, A. Thiem; Rostock, Pepelow
- P062** **Mutual interaction of S100A9 and saturated fatty acids is a central mechanism in the obesity-mediated exacerbation of skin inflammation**
A. Saalbach, J. Kohlmann, L. Selig, K. Engel, J. Simon, S. Franz; Leipzig
- P063** **Artificial neural networks and pathologists recognize basal cell carcinomas based on different histological patterns**
S. Kimeswenger, P. Tschandl, P. Noack, M. Hofmarcher, E. Rumetshofer, H. Kindermann, R. Silye, S. Hochreiter, M. Kaltenbrunner, E. Guenova, G. Klambauer, W. Hoetzenecker; Linz, Vienna, Steyr, Lausanne, Zurich
- P064** **Cellular expression of complement receptors C5aR1 and C5aR2 in pemphigoid diseases**
R. Stahlkopf, S. Emtenani, D. Zillikens, C. Karsten, E. Schmidt; Luebeck
- P065** **New diagnostic criteria for ichthyoses: Delineation of seven histological patterns**
K. Suessmuth, V. Oji, J. Fischer, I. Hausser-Siller, H. Traupe, D. Metze; Muenster, Freiburg, Heidelberg
- P066** **Analysis of ribosomal composition in the premature aging disease Cockayne syndrome**
M. Qiang, F. Khalid, T. Phan, M. Alupej, K. Scharffetter-Kochanek, S. Iben; Ulm
- P067** **Epithelioid hemangiomas show somatic mutations in the MAPK pathway**
C. Kosnopfel, K. Maurus, H. Kneitz, S. Appenzeller, M. Rosenfeldt, S. Froehling, L. Moehrmann, M. Goebeler, A. Rosenwald, H. Kutzner, B. Schilling; Wuerzburg, Heidelberg, Dresden, Friedrichshafen
- P068** **Selective PI3K-delta inhibition normalizes aberrant kinase activity in the skin and has therapeutic effects in experimental models of pemphigoid diseases**
S. Ghorbanalipoor, S. Emtenani, K. Izumi, M. Kamaguchi, I. Osman, J. Hobusch, K. Bieber, L. Chakievskia, M. Pigors, A. Wobig, M. Parker, P. Smith, E. Schmidt, R. Ludwig; Luebeck, Sapporo, Wilmington, Delaware

- P069 (OP03/02) Profiling of Acne inversa reveals disease-specific but also psoriasis-related pathogenetic pathways, which may explain the increased prevalence of concomitant psoriasis among AI patients**
K. Wolk, G. Kokolakis, T. Brembach, O. Shomroni, A. Tsaousi, G. Lux, E. Witte-Haendel, I. Fatschild, R. Moessner, J. Wasem, D. Delic, G. Salinas, H. Volk, K. Ghoreschi, R. Sabat; Berlin, Goettingen, Essen, Biberach
- P070 Soluble Fc γ RI is a potential biomarker for therapeutic response to omalizumab in patients with chronic spontaneous urticaria**
S. Moñino-Romero, P. Kolkhir, Z. Szépfalusi, T. Hawro, K. Weller, M. Metz, M. Maurer, S. Altrichter; Berlin, Vienna, Moscow
- P071 (OP04/03) Myeloperoxidase plays an important role in epidermolysis bullosa acquisita**
S. Murthy, L. Kroeger, D. Zillikens, C. Sadik; Luebeck
- P072 Interferon-gamma drives keratinocyte necroptosis in acute graft-versus-host disease**
L. Freund, J. Schwingen, S. Haeberle, K. Schaekel; Heidelberg

Epidemiology

- P073 Divergence in the prevalence of self-reported and physician-reported diagnosis of atopic dermatitis in adults: Results from a population-based study**
K. Piontek, T. Ittermann, A. Arnold, S. Baumeister, C. Apfelbacher; Magdeburg, Greifswald, Augsburg
- P074 NK cell transcriptomic signatures in skin of atopic dermatitis**
L. Moebus, E. Rodriguez, I. Harder, A. Schwarz, U. Wehkamp, D. Stoelzl, N. Boraczynski, S. Gerdes, T. Litman, A. Kleinheinz, S. Abraham, A. Heratizadeh, C. Handrick, E. Haufe, J. Schmitt, T. Werfel, S. Weidinger; Kiel, Ballerup, Buxtehude, Dresden, Hannover, Berlin
- P075 Associations of host traits, lifestyle and environment with the skin microbiota**
L. Moitinho-Silva, N. Boraczynski, H. Emmert, H. Baurecht, S. Szymczak, H. Schulz, D. Haller, L. Jakob, G. Christian, A. Peters, L. Tittmann, W. Lieb, C. Bang, A. Franke, E. Rodriguez, S. Weidinger; Kiel, Regensburg, Neuherberg, Freising
- P076 Which antipsoriatic induction treatment sequence is the most time-effective? Economic modelling with time instead of monetary cost**
M. Zidane, C. Dressler, M. Gaskins, A. Nast; Berlin
- P077 Incidence of different cancer types in dermatomyositis, polymyositis and dermatopolymyositis: results of a registry analysis**
M. Zidane, C. Dressler, A. Nast, A. Egeberg; Berlin, Hellerup
- P078 A randomized controlled feasibility trial assessing compliance with sun protection and quality of life in patients with melanoma stage I or II.**
H. Goeth, M. Koller, M. Hegemann, K. Drexler, F. Zeman, G. Huppertz, M. Berneburg, T. Maisch; Regensburg
- P079 Sports-related skin complaints among physically active students in Germany: online survey**
K. Drewitz, F. Kreuzpointner, C. Apfelbacher; Magdeburg, Singapore, Munich

- P080** **Incidence and mortality of melanoma proportional to the catchment area of dermatologists in Bavaria**
K. Drexler, H. Drexler, M. Berneburg, C. Apfelbacher, S. Haferkamp;
Regensburg, Erlangen, Magdeburg
- P081** **Anxiety and depression predispose individuals to bullous pemphigoid- A large-scale population-based cohort study**
K. Kridin, J. Hundt, R. Ludwig, A. Cohen; Luebeck, Tel-Aviv
- P082** **The influence of complement on the clinical, immunological, and histological features of patients with bullous pemphigoid ? Insights from a retrospective cohort study**
S. Staender, M. Holtsche, E. Schmidt, C. Hammers, D. Zillikens, R. Ludwig, K. Kridin;
Luebeck
- P083** **The risk of Coronavirus disease 2019 (COVID-19) in patients with bullous pemphigoid and pemphigus: A population-based cohort study**
K. Kridin, J. Hundt, R. Ludwig, E. Schmidt, Y. Schoenman, A. Cohen; Luebeck, Tel-Aviv

Genetics

- P084** **Vitamin D status in distinct types of ichthyosis: Importance of genetic subtype and severity of scaling**
K. Suessmuth, M. Egbert, F. Valentin, H. Traupe, J. Nofer, I. Hausser-Siller, H. Hennies,
S. Wudy, A. Sanchez-Guijo, J. Fischer, V. Oji;
Muenster, Heidelberg, Cologne, Giessen, Freiburg
- P085** **Development of a non-invasive and non-viral in vivo RNA therapy approach for dystrophic epidermolysis bullosa**
B. Liemberger, T. Kocher, T. Lettner, M. Ablinger, V. Reichl, N. Lackner, P. Peking,
E. Muraier, A. Nystroem, V. Wally, E. Mayr, C. Guttmann-Gruber, J. Bauer, U. Koller;
Salzburg, Freiburg
- P086** **Double-nicking-based correction of junctional epidermolysis bullosa via COL17A1 reframing**
J. Bischof, O. March, S. Haas, B. Liemberger, S. Hainzl, A. Hoog, H. Binder, B. Duarte,
D. Strunk, F. Larcher, J. Reichelt, J. Bauer, T. Cathomen, T. Kocher, U. Koller;
Salzburg, Freiburg, Madrid
- P087** **Cold urticaria associated with a novel Phospholipase-C-Gamma-2 (PLCG2) mutation**
M. Butze, H. Bonnekoh, J. Scheffel, H. Wai, D. Baralle, S. Ennis, C. Walliser, M. Wist,
A. Schade, P. Gierschik, M. Maurer, K. Krause; Berlin, Southampton, Ulm
- P088** **A novel NLRP1 mutation causes different phenotypes in siblings**
M. Li, A. Reimer, A. Zimmer, J. Fischer, C. Has; Freiburg
- P089** **Development of a Pathogenesis-Based Therapy for Peeling Skin Syndrome (PSS type 1)**
F. Valentin, H. Wiegmann, T. Tarinski, H. Nikolenko, K. Suessmuth, H. Traupe, E. Liebau,
M. Dathe, V. Oji; Muenster, Berlin

- P090** **Next-generation sequencing reveals druggable targets in advanced melanoma besides BRAF/MEK inhibition**
 F. Hilke, A. Gschwind, G. Demidov, S. Ossowski, I. Bonzheim, T. Sinnberg, H. Niessner, C. Schroeder, A. Forschner; Berlin, Tuebingen

Health Services Research

- P091** **Scientific Evidence Management System: Proof of concept for COVID-19**
 L. von Meyenn, D. Teodoro, N. Borissov, S. Ferdows, M. Counotte, Q. Haas, H. Imeri, S. Trelle, P. Amini; Bern, Geneva
- P092** **Effects of the COVID-19 pandemic on care of melanoma patients in Berlin: the Mela-COVID survey**
 M. Teuscher, K. Diehl, M. Schaarschmidt, J. Weilandt, B. Sasama, J. Ohletz, A. Koennecke, W. Harth, U. Hillen, W. Ludwig-Peitsch; Berlin, Mannheim

Immunology

- P093** **Salt generates anti-inflammatory Th17 cells but amplifies pathogenicity in pro-inflammatory cytokine microenvironments**
 J. Matthias, D. Baumjohann, M. Huber, T. Korn, C. Zielinski; Munich
- P094 (OP02/01)** **Immune complexes induce a patrolling response in non-classical monocytes**
 S. Preuss, H. Zhang, J. Young, J. Spatz, U. Engel, S. Oehrl, F. Oлару, K. Schaekel; Heidelberg
- P095** **C-type lectin receptors sense a Malassezia allergen and its human homologue, a damage-associated molecular pattern molecule**
 L. Roesner, M. Ernst, W. Chen, G. Begemann, P. Kienlin, M. Raulf, B. Lepenies, T. Werfel; Hannover
- P096** **A deficiency in receptors for short chain fatty acids impairs the activity of regulatory T cells**
 R. Philippsen, A. Schwarz, T. Schwarz; Kiel
- P097** **Injection of immunocytes into mice with psoriatic skin grafts induces lesion flare up, but no systemic disease**
 J. Wegner, A. Waisman, E. von Stebut; Mainz, Cologne
- P098** **Immunological patterns and therapeutic consequences of chronic inflammatory skin diseases**
 P. Seiringer, R. Batra, N. Garzorz-Stark, M. Jargosch, F. Lauffer, A. Pilz, T. Biedermann, S. Eyerich, K. Eyerich; Munich, Stockholm
- P099** **PAD4- mediated pathways contributes to dermal fibrosis via fibroblast activation**
 S. Muecklich, J. Haub, K. Steinbrink, N. Roehrig, C. Braun, V. Raker; Mainz, Bonn, Muenster

- P100 (OP04/02) High-dose immunoglobulins induce T regulatory (Treg) cells which downregulate desmoglein 3-specific IgG antibodies in a human leukocyte antigen-transgenic mouse model of pemphigus vulgaris**
R. Eming, S. Schimo, E. Rentz, M. Hertl, C. Hudemann; Marburg, Dreieich
- P101 PPAR-gamma promotes proliferation of pathogenic Th2 cells through regulation of IL-2 signaling**
F. Luther, N. Bertschi, O. Steck, C. Bazzini, I. Keller, C. Schlapbach; Bern
- P102 Profiling of tumor-infiltrating T cells for guidance of melanoma salvage therapy in immune-checkpoint-blockade resistant patients**
F. Zhao, V. Peller, M. Schwamborn, S. Kwapik, A. Sucker, S. Ugurel, D. Schadendorf, A. Paschen; Essen
- P103 Inhibitory Effects of Baricitinib on a Human Skin Model of Atopic Dermatitis**
B. Nickoloff, S. Colvin, J. Sims, E. Dow, D. Gemperline, C. Chang, R. Higgs, Y. Dutronc, F. Nunes, J. Janes, K. Fotiou; Indianapolis, Bad Homburg
- P104 Absence of functional Tregs in scurfy mice leads to blister inducing autoantibody directed against Type VII Collagen**
E. Vicari, S. Haeberle, V. Bolduan, A. Vorobyev, S. Goletz, H. Iwata, R. Ludwig, E. Schmidt, H. Shimizu, A. Enk, E. Hadaschik; Heidelberg, Luebeck, Sapporo, Essen
- P105 Low levels of IgA in chronic spontaneous urticaria are associated with low levels of IgE and autoimmunity**
M. Sauer, J. Scheffel, S. Frischbutter, P. Kolkhir, Y. Xiang, F. Siebenhaar, S. Altrichter, M. Maurer, M. Metz, K. Krause; Berlin, Moscow
- P106 How do neutrophil extracellular traps contribute to enhanced Staphylococcus aureus skin colonization?**
J. Focken, B. Weigelin, B. Schittek; Tuebingen
- P107 Staphylococcus aureus membrane vesicles participate in S. aureus skin colonization by activating innate immune responses and neutrophil recruitment**
L. Staudenmaier, B. Schittek; Tuebingen
- P108 ARG1+ IL10+ polymorphonuclear myeloid-derived suppressor cells are elevated in patients with active pemphigus and correlate with an increased Th2 response**
D. Neri, M. Carevic-Neri, J. Brueck, J. Holstein, I. Schaefer, F. Solimani, D. Hartl, K. Ghoreschi; Berlin, Tuebingen
- P109 Characterization of T cell ? Melanoma Interactions for an in vitro Melanoma Skin Model**
J. Wohlfarth, N. Tarek, M. Wussmann, N. Beyersdorf, F. Groeber-Becker, S. Meierjohann, M. Goebeler, B. Schilling; Wuerzburg
- P110 (OP02/02) Delineating the pathogenetic relevance of autoreactive T cells against desmoglein 3 in pemphigus vulgaris**
L. Scarsella, V. Korff, K. Kuehn, D. Didona, C. Hudemann, B. Beckert, R. Tickanen, S. Wienzek-Lischka, G. Bein, G. Di Zenzo, J. Boehme, F. Solimani, J. Kurzhals, J. Pieper, H. Juratli, M. Goebel, T. Schmidt, L. Borradori, C. Sitaru, S. Fleischer, R. Eming; Marburg, Giessen, Rome, Berne, Freiburg, Hamburg

- P111 Targeted inhibition of complement at the basement-membrane zone in bullous pemphigoid**
C. Hammers, S. Emtenani, O. Isken, N. Tautz, C. Lin, J. Hundt, E. Schmidt, D. Siegel, J. Stanley; Luebeck, Philadelphia
- P112 Autocrine IL-9/IL-9R? signaling induces a pathogenic phenotype in Th2 cells**
N. Bertschi, C. Bazzini, F. Luther, O. Steck, C. Schlapbach; Bern
- P113 Immune signatures of treatment response and immune-related adverse events in melanoma patients under checkpoint inhibitor therapy**
R. Reschke, P. Gussek, A. Boldt, U. Sack, U. Koehl, F. Lordick, M. Kreuz, K. Reiche, J. Simon, M. Ziemer, M. Kunz; Leipzig
- P114 Investigating pemphigus vulgaris pathogenesis using a human skin organ culture model**
H. Asmussen, P. Kastl, N. Feldmann, C. Hammers, D. Zillikens, R. Ludwig, U. auf dem Keller, J. Hundt; Luebeck, Kgs. Lyngby
- P115 Inhibition of phosphodiesterase-4 reverses anti-laminin 332 IgG mediated signal transducing events and functional alterations in vitro**
S. Tofern, A. Schoelzel, S. Goletz, D. Zillikens, E. Schmidt; Luebeck
- P116 (OP02/04) Identifying hidden drivers of heterogeneous inflammatory skin diseases**
N. Garzorz-Stark, R. Batra, F. Lauffer, M. Jargosch, C. Pilz, S. Roenneberg, A. Schaebitz, A. Boehner, P. Seiringer, J. Thomas, B. Fereydouni, G. Kutkaite, M. Menden, L. Tsoi, J. Gudjonsson, F. Theis, T. Biedermann, C. Schmidt-Weber, N. Mueller, S. Eyerich; Stockholm, Munich, Neuherberg, Ann Arbor, Garching, New York
- P117 Processing of Leishmania parasites by human dendritic cell**
I. Azzouz; Berlin
- P118 Diagnosis of epidermolysis bullosa acquisita: Comparison of different assays for serum anti-type VII collagen reactivity**
M. Holtsche, N. van Beek, T. Hashimoto, G. Di Zenzo, D. Zillikens, C. Prost-Squarcioni, M. Titeux, A. Hovnanian, E. Schmidt, S. Goletz; Luebeck, Osaka, Rome, Bobigny, Paris
- P119 Aldehyde dehydrogenase inhibition does not resolve skin and mucosal lesions in experimental laminin-332 mucous membrane pemphigoid**
S. Patzelt, M. Pigors, K. Boch, D. Zillikens, H. Steenbock, J. Brinckmann, E. Schmidt; Luebeck
- P120 The impact of high fat diet on contact hypersensitivity**
A. Ruehl-Muth, M. Maler, U. Voith, P. Esser, S. Martin; Freiburg
- P121 Low invasive microbiopsies are sufficient to perform immune-based molecular classification of inflammatory skin diseases.**
A. Doll, F. Lauffer, M. Jargosch, N. Garzorz-Stark, S. Eyerich, K. Eyerich; Munich
- P122 Genetic C5AR1 variant and C5A levels associated with Pemphigus**
V. Bumiller-Bini, R. Misunori Nisihara, T. Della Justina Farias, E. Lueders, H. Busch, A. Franke, M. Wittig, N. van Beek, D. Zillikens, E. Schmidt, M. Petzl-Erler, J. Hundt, A. Winter Boldt; Curitiba, Luebeck, Kiel
- P123 Up-regulation of SIRPA expression and high LDH levels in human skin organ Culture mimicking PEMPHIGUS FOLIACEUS**
V. Bumiller-Bini, A. Salviano-Silva, A. Pumpe, G. Adelman Cipolla, C. Hammers, M. Holsbach Beltrame, A. Winter Boldt, J. Hundt; Curitiba, Luebeck

- P124 (OP02/03)** **Innate lymphoid cells contribute to the control of cutaneous leishmaniasis.**
D. Lukas, B. Lorenz, M. Reibetanz, S. Koenen-Waisman, G. Gasteiger, S. Wirtz, E. Vivier, N. Yogev, E. von Stebut; Cologne, Wuerzburg, Erlangen, Marseille
- P125** **Cleavage of C1-Inhibitor by Mast Cell chymase results in abrogated control of FXIIa activity ? a connection between histaminergic and bradykinin-mediated angioedema**
C. Vera, M. Maurer, J. Scheffel; Berlin
- P126** **Development of combination therapy to delay resistance in BRAF-inhibitor treated melanoma**
A. Seretis, G. Cappellano, L. Bellmann, F. Hornsteiner, C. Tripp, D. Ortner-Tobider, D. Mullins, L. Amon, C. Lehmann, D. Dudziak, P. Stoitzner; Innsbruck, Novara, Lebanon, Erlangen
- P127** **Differential role of reactive oxygen and nitrogen species in contact hypersensitivity reaction**
R. Mehling, J. Schwenck, C. Trautwein, L. Zizmare, D. Kramer, A. Mueller, B. Fehrenbacher, I. Gonzalez-Menendez, L. Quintanilla-Martinez, M. Schaller, M. Roecken, B. Pichler, M. Kneilling; Tuebingen
- P128** **Characterization of the skin myeloid cell landscape upon L. major infection.**
K. Inselmann, D. Lukas, B. Lorenz, M. Reibetanz, S. Koenen-Waisman, N. Yogev, E. von Stebut; Cologne
- P129** **Preclinical evaluation of a combination of checkpoint blockade and dendritic cell vaccination against Merkel cell carcinoma**
T. Sauerer, K. Gerer, S. Hoyer, M. Erdmann, C. Berking, R. Voll, B. Schuler-Thurner, G. Schuler, N. Schaft, J. Doerrie; Erlangen, Freiburg i. Br.
- P130** **Topical treatment with 1,8-dihydroxy-9anthrone induces IL-6 and ROS and recruits myeloid cells with immunosuppressive features**
M. Carevic-Neri; Berlin
- P131 (OP03/04)** **Type 17 T follicular helper cells promote desmoglein 1/3-specific autoantibody production in pemphigus**
J. Holstein, F. Solimani, C. Baum, K. Meier, P. Robert, D. Didona, T. Tekath, M. Dugas, N. Casadei, J. Matthes, I. Schaefer, A. Polakova, C. Hudemann, R. Stach, A. Yazdi, R. Eming, M. Hertl, W. Pfuetzner, G. Kamran, C. Moebs; Tuebingen, Berlin, Marburg, Munster, Aachen
- P132** **The inflammatory milieu in cutaneous lichen planus is predominantly dominated by IFN- and IL-21**
K. Pietschke, J. Holstein, K. Meier, I. Schaefer, E. Mueller-Hermelink, I. Gonzalez-Menendez, L. Quintanilla-Martinez, F. Ghoreschi, F. Solimani, K. Ghoreschi; Tuebingen, Berlin
- P133** **Cutaneous lichen planus induced under anti-IL-17A treatment is immunologically different from spontaneous occurring lichen planus**
A. Mesas, M. Zidane, K. Meier, J. Holstein, C. Ulrich, G. Kokolakis, F. Solimani, K. Ghoreschi; Berlin, Tuebingen
- P134** **UV-irradiation potentiates type I interferon signaling in fibroblasts of patients with cutaneous lupus and TREX1-deficiency**
K. Fischer, N. Zimmermann, N. Berndt, P. Knuschke, P. Binkenstein, E. Cura Costa, O. Chara, M. Lee-Kirsch, C. Guenther; Dresden, La Plata

- P135 Cellular stress due to RNA repeat expansions in myotonic dystrophy type II**
S. Roesing, N. Eberl, F. Schmidt, A. Rapp, H. Schulze, N. Zimmermann, P. Binkenstein, S. Meisterfeld, U. Reuner, C. Guenther; Dresden, Darmstadt
- P136 BRAF and MEK inhibitors affect dendritic cell maturation and T cell stimulation**
S. Hoyer, V. Eberlein, G. Schuler, C. Berking, L. Heinzerling, N. Schaft, J. Doerrie; Erlangen
- P137 Autoantigen generation of the HLA-C*06:02-mediated autoimmune response against melanocytes in psoriasis is ERAP1-dependent**
A. Arakawa, S. Vollmer, E. Reeves, E. James, J. Prinz; Munich, Southampton
- P138 (OP05/03) Complex interactions between Gut Microbiota and the Mitochondria contribute to the pathogenesis of Autoimmune Skin Diseases**
A. Tietje, P. Schilf, M. Olbrich, M. Hirose, S. Kuenzel, A. Kuenstner, H. Busch, C. Sadik, J. Baines, S. Ibrahim; Luebeck, Ploen, Kiel
- P139 Skin immune cell infiltration: multidimensional single cell mass cytometry and flow cytometry studies of acne inversa lesions**
C. Nikolaou, T. Brembach, G. Kokolakis, D. Kunkel, A. Thiel, R. Sabat, K. Wolk; Berlin
- P140 Phenotypic characterization of T cell subpopulations of patients with chronic spontaneous urticaria**
S. Hermann, J. Pickert, M. Rauber-Ellinghaus, C. Moebs, W. Pfuetzner; Marburg
- P141 Artificial 3D human skin for translational and diagnostic utilization**
P. Kunth, C. Czyz, F. Gruber, K. Kalies, C. Kremslehner, E. Schmidt, D. Zillikens, C. Hammers, J. Hundt; Luebeck, Vienna
- P142 Dysregulation of mTOR and JAK/STAT signaling pathways in monocyte-derived macrophages from sarcoidosis patients**
A. Redl, C. Lim, L. Kleissl, R. Pandey, T. Weichhart, G. Stary; Vienna
- P143 Resiquimod reveals great efficacy in inflammatory cytokine induction and T cell recruitment**
B. Meier-Schiesser, D. Jankovic, G. Hofbauer, C. Surber, E. Contassot, L. French; Zurich, Basel, Munich
- P144 Acute Generalized Exanthematous Pustulosis ? Not only a T cell Driven Disease? Impact of Innate Immunity in Adverse Drug Reactions of the Skin**
B. Meier-Schiesser, M. Mellett, L. Feldmeyer, A. Navarini, E. Contassot, L. French; Zurich, Bern, Basel, Munich
- P145 Effects of Cold Atmospheric Plasma (CAP) on the metabolic activity and survival of human T cells and cancer cell lines**
N. Zimmer, L. Stein, J. Schupp, I. Gehringer, S. Rietz, A. Tuettenberg; Mainz
- P146 (OP04/01) Mast cells instruct keratinocytes to produce TSLP ? relevance of the tryptase/PAR-2 axis**
D. Redhu, K. Franke, A. Illerhaus, K. Hartmann, M. Babina, M. Worm; Berlin, Cologne, Basel
- P147 IL-36? drives skin toxicity induced by EGFR/MEK inhibition and Cutibacterium acnes**
T. Satoh, M. Mellett, B. Meier-Schiesser, E. Contassot, L. French; Munich, Zurich, Basel

- P148** **Initial analysis of T cell receptor (TCR)? repertoires in perilesional skin biopsies of bullous pemphigoid patients**
A. Faehnrich, M. Niebuhr, M. Olbrich, H. Busch, E. Schmidt, C. Sadik, D. Zillikens, S. Ibrahim, C. Hammers, K. Kalies; Luebeck
- P149** **Introgession of HLA-class I alleles from Neanderthals and Denisovans causes autoimmunity in psoriasis and other HLA-class I associated immune-mediated diseases**
A. Arakawa, B. Kendziora, C. Huber, J. Prinz; Munich, Adelaide
- P150** **Inhibiting acantholysis in pemphigus vulgaris by novel systemic and topical therapeutics**
U. Radine, V. Bumiller-Bini, H. Asmussen, H. Busch, D. Zillikens, C. Hammers, R. Ludwig, J. Hundt; Luebeck, Curitiba
- P151** **Diverse apoptotic effects of TNF? on malignant and normal human keratinocytes**
G. Kokolakis, R. Sabat, S. Krueger-Krasagakis, J. Eberle; Berlin, Heraklion Crete
- P152** **Alopecia areata is governed by a reversible, senescence-like growth arrest**
K. Meier, J. Brueck, T. Mehra, M. Gassenmaier, A. Hossini, E. Mueller-Hermelink, B. Fehrenbacher, K. Ghoreschi, M. Roeken; Berlin, Tuebingen, Bruderholz, Dessau
- P153** **Prevalence of Candida species in Psoriasis**
K. Elsner, J. Holstein, S. Schmidt, B. Walker, G. Blumenstock, M. Schaller, K. Ghoreschi, K. Meier; Tuebingen, Berlin
- P154 (OP04/04)** **Topical application of Adenosine A2 receptor agonists to skin prevents contact hypersensitivity reactions in mice by affecting skin residing Dendritic cells**
C. Silva-Vilches, A. Enk, K. Mahnke; Heidelberg
- P155** **Regulatory T cells prevent neutrophilic infiltration of skin during contact hypersensitivity reactions by strengthening the endothelial barrier**
S. Ring, Y. Inaba, M. Da, A. Enk, K. Mahnke; Heidelberg
- P156 (OP03/01)** **Interferon-independent enhancement of melanoma cell immunogenicity by RIG-I activation**
B. Thier, L. Such, V. Peller, M. Schwamborn, A. Sucker, C. Coch, D. Schadendorf, K. Griewank, M. Trilling, F. Zhao, A. Paschen; Essen, Bonn
- P157** **[18F]FDG PET/CT-based imaging method to characterize the therapeutic effects**
J. Brueck, C. Calamianus, S. Hoffmann, M. Harant, K. Ghoreschi; Tuebingen, Berlin
- P158** **Dimethyl fumarate-induced IL-17low IFN- low IL-4+ Th cells protect mice from severe encephalomyelitis**
J. Brueck, I. Glocova, J. Geisel, M. Roeken, K. Ghoreschi; Tuebingen, Berlin
- P159** **Pityriasis rubra pilaris ? a primarily IL-23 mediated inflammatory skin disease**
A. Pilz, M. Jargosch, J. Thomas, R. Batra, P. Seiringer, S. Eyerich, K. Eyerich; Munich, Neuherberg, Stockholm
- P160** **From bench to bedside: An experimental approach to identify skin derived Th2-determining tissue signals**
L. Nemetschke, J. Ehrchen, N. Muenck, E. Nattkemper, D. Gerloff, C. Sunderkoetter; Halle, Muenster

- P161** **B-cells in psoriasis?**
S. Banki, J. Heusinger, T. Herter-Kermann, M. Sticherling; Erlangen

Infectious Diseases

- P162** **First systematic analysis of Darier Disease patients? cutaneous microbiome and transcriptome reveals *S. aureus* dominance and a strong anti-*Staphylococcus* immune response**
Y. Amar, D. Boehmer, B. Foesel, M. Jargosch, J. Thomas, R. Batra, R. Silva, S. Niedermeier, S. Kublik, S. Eyerich, J. Wikstroem, M. Schloter, K. Eyerich, T. Biedermann, M. Koeberle; Munich, Neuherberg, Stockholm
- P163** **Analysis of Epidermal Defense Molecules in Tinea Pedis**
C. Pham, H. Hinrichs, V. Beck-Jendroscheck, J. Brasch, R. Glaeser, J. Harder; Kiel
- P164** **Induction of Toll-like Receptor Expression in Primary Human Keratinocytes by Cytokines**
A. Ljulkina, S. Krebs, L. Boeckmann, S. Emmert, E. Proksch, R. Panzer; Kiel, Rostock
- P165** **High frequency of point mutations within the squalene epoxidase gene of Indian Trichophyton mentagrophytes and rubrum strains is responsible for terbinafine resistance**
A. Burmester, P. Nenoff, S. Uhrlass, M. Monod, U. Hipler, C. Wiegand; Jena, Moelbis, Lausanne
- P166** **Vitamin D and IL-10 reciprocally regulate antimicrobial peptide expression and intracellular iron accumulation in human**
K. Knoke, M. Fabri; Cologne
- P167** **HSV-1 upregulates MRGPRX2 expression in human mast cells**
M. Raftery, Y. Hackler, G. Schoenrich, M. Maurer, M. Munoz; Berlin

Pharmacology

- P168** **Anti-osteopontin treatment ameliorates fibroblast dysfunction in radiation-induced morphea and prevents skin fibrosis in mice**
S. Kuenzel, T. Kant, M. Neue, N. Zimmermann, K. Kuenzel, E. Klapproth, S. Beisert, A. El-Armouche, C. Guenther; Dresden
- P169** **Rifampicin in Hidradenitis suppurativa**
I. Haferland, C. Wallenwein, T. Ickelsheimer, S. Diehl, S. Schiffmann, C. Buerger, A. Pinter, A. Koenig; Frankfurt a.M.
- P170** **Validation of a novel immunomodulatory compound for restoring tolerance in allergy**
J. He, M. Maurer, S. Frischbutter; Berlin, Luzhou, Sichuan

Photobiology

- P171** **Enhancement of antibody-dependent cellular cytotoxicity is associated with treatment response to extracorporeal photopheresis in Sézary syndrome**
C. Iselin, Y. Chang, T. Schlaepfer, C. Fassnacht, F. Dimitriou, M. Naegeli, S. Pascolo, W. Hoetzenecker, M. Bobrowicz, E. Guenova; Zurich, St. Gallen, Linz, Warsaw, Lausanne
- P172** **UVA induced changes in glucose metabolism in dermal cells could be part of a cellular antioxidant strategy**
I. Ivanova, M. Hartwig, A. Hartwig, S. Arndt, W. Gronwald, M. Kreutz, Y. Kamenisch, M. Berneburg; Regensburg
- P173** **Influence of indocyanine green (ICG) in combination with water-filtered near-infrared irradiation (wIRA) and hyperthermia on human keratinocytes ? a new photodynamic therapy?**
G. Reichenbach, D. Oezistanbullu, J. Kleemann, M. Meissner, E. Valesky, R. Kaufmann, S. Kippenberger, N. Zoeller; Frankfurt a.M.
- P174** **Pre-clinical trial platform for assessing the effect of cosmeceutical agents on epidermal melanogenesis in human skin organ culture**
M. van Lessen, R. Alqasemi, J. Edelkamp, M. Bertolini, R. Paus, T. Bíró; Muenster, Miami

Pruritus

- P175** **Cortistatin, a MRGPRX2 agonist, is expressed by skin mast cells of patients with pruritic skin diseases, can be released upon activation with anti-IgE, and degranulates human skin mast cells in vitro and in vivo**
P. Kolkhir, Q. Jiao, J. He, J. Scheffel, M. Metz, M. Maurer, S. Frischbutter; Berlin, Moscow, Suzhou, Luzhou
- P176** **Exploratory biomedical basic research study to investigate the potential influence of amino acids on the skin of haemodialysis subjects with uremic pruritus (UP)**
T. Ickelsheimer, M. Doué, I. Haferland, P. Gillery, S. Jaisson, C. Buerger, A. Pinter, A. Koenig; Frankfurt a.M., Reims Cedex
- P177** **Chronic Nodular Prurigo: Revealing the Clinical Profile and Associated Burdens of a Neglected Disease. A Multi-center Cross-Sectional European Study**
M. Pereira, C. Zeidler, S. Staender; Muenster
- P178** **Disease-specific responses to experimental itch in chronic inflammatory skin diseases**
S. Moon, M. Maurer, M. Metz, T. Hawro; Berlin
- P179** **Development and validation of the Prurigo Control Test (PCT) ? A patient reported outcome measure to assess disease control in chronic prurigo**
M. Metz, C. Zeidler, N. Boehnke, M. Maurer, S. Staender, K. Weller; Berlin, Muenster
- P180** **Going skin deep - pH changes within the epidermis of chronic inflammatory skin diseases**
S. Moon, M. Maurer, T. Hawro, M. Metz; Berlin

- P181** **Cutaneous nerve fiber architecture is altered in lesional psoriatic skin and recovers upon treatment with Secukinumab.**
K. Agelopoulos, C. Hambuechen, R. Becker, C. Mess, K. Loser, D. Metze, D. Baeumer, T. Luger, S. Staender; Muenster, Hamburg, Nuernberg
- P182** **The μ -opioid receptor (KOR) is part of a specific co-expression pattern in various pruritus entities**
H. Wiegmann, L. Renkhold, M. Pereira, C. Zeidler, K. Agelopoulos, S. Staender; Muenster
- P183** **Cutaneous dysesthesias differ in chronic pruritus patients**
L. Renkhold, K. Agelopoulos, M. Pereira, H. Wiegmann, C. Zeidler, S. Staender; Muenster
- P184** **Gene expression and intraepidermal neuronal branching differs between pruritic entities**
K. Agelopoulos, L. Renkhold, H. Wiegmann, E. Pogatzki-Zahn, C. Zeidler, M. Pereira, S. Staender; Muenster
- P185** **Sleep impairment in adult patients with psoriasis**
E. Sahin, R. Sabat, S. Philipp, D. Christou, G. Kokolakis, M. Hawro, K. Weller, M. Maurer, M. Metz, T. Hawro; Berlin
- P186** **Intense pruritus is linked to sleep disturbance across different chronic skin conditions**
T. Hawro, M. Spindler, K. Przybylowicz, M. Hawro, K. Weller, M. Maurer, M. Metz; Berlin
- P187** **A Comprehensive, Case-Controlled Analysis of Pruritus in Psoriasis**
T. Hawro, E. Sahin, M. Hawro, M. Stec, R. Sabat, S. Philipp, D. Christou, G. Kokolakis, M. Rozewicka-Czabanska, E. Raducha, R. Maleszka, P. Kolkhir, L. Garanyan, D. Pogorelov, O. Olisova, K. Weller, M. Maurer, M. Metz; Berlin, Potsdam, Szczecin, Moscow

Tumor Biology

- P188** **RAD51 Inhibition as Therapeutic Strategy for the Treatment of Metastatic Melanoma**
L. Froehlich, E. Makino, B. Schittek; Tuebingen
- P189** **Functional melanoma cell heterogeneity is regulated by MITF-dependent cell-matrix interactions**
L. Spoerri, C. Tonnessen-Murray, G. Gunasingh, D. Hill, K. Beaumont, R. Jurek, G. Vanwallegghem, M. Fane, S. Daignault, N. Matigian, E. Scott, A. Smith, S. Stehbens, H. Schaidler, W. Weninger, B. Gabrielli, N. Haass; Brisbane, Sydney
- P190** **The role of LKB1 in the development and progression of malignant melanoma**
B. Schwertner, K. Drexler, M. Krahn, S. Haferkamp; Regensburg, Muenster
- P191** **Heparan sulfate dependent binding of melanoma cells to plasmatic von Willebrand factor attenuates melanoma metastasis**
Y. Wang, X. Liu, S. Vidal-y-Sy, E. Wladykowski, T. Obser, A. Failla, M. Gullberg, A. Bauer, S. Schneider, C. Gorzelanny; Hamburg, Mannheim, Bergen
- P192** **A transcriptome-wide isoform landscape of melanoma identifies gene isoforms associated with malignancy**
S. Hakobyan, H. Loeffler-Wirth, A. Arakelyan, H. Binder, M. Kunz; Yerevan, Leipzig

- P193** **Retraction artefacts in basal cell carcinomas do not result from fixation, but may be related to local tumor progression**
J. Mentzel, U. Anderegg, S. Grunewald; Leipzig
- P194** **Hit it hard enough 2.0: Improved MAPK pathway blockade in melanoma by ERK inhibitors**
H. Niessner, C. Kosnopfel, C. Garbe, T. Sinnberg; Tuebingen, Wuerzburg
- P195** **Inhibiting the neural crest transcription factor SOX10 leads to cell cycle arrest and apoptosis in uveal melanoma cells**
A. Wessely, C. Kammerbauer, C. Lischer, J. Vera, C. Berking, M. Heppt; Erlangen, Munich
- P196** **Brn3a expression is epigenetically controlled by HDAC2 in melanocytes and melanoma**
M. Heppt, A. Wessely, E. Hornig, C. Kammerbauer, S. Graf, R. Besch, L. French, S. Kuphal, M. Kappellmann-Fenzl, A. Bosserhoff, A. Bosserhoff, C. Berking; Erlangen, Munich
- P197 (OP01/02)** **Interferon Unresponsive Melanomas Resist CD8 T cell Immunity but can be Targeted with CD4 ACT and Salvage Virotherapy**
J. Ruotsalainen, N. Shridhar, K. Zamecnikova, S. Gellert, A. Buzzai, J. Peters, B. Kruse, S. Bonifatius, S. Gieseler-Halbach, D. Schanze, M. Essand, E. Gaffal, T. Tueting; Magdeburg
- P198** **Immune checkpoint blockade needs Stat1-depending senescence pathways in cancer cells**
E. Brenner, B. Schoerg, T. Wieder, B. Fehrenbacher, F. Hilke, C. Schroeder, G. Demidov, M. Schaller, B. Pichler, M. Kneilling, M. Roecken; Tuebingen
- P199** **Increased chlormethine induced DNA double stranded breaks in malignant T cells from mycosis fungoides skin lesions**
Y. Chang, D. Ignatova, C. Fassnacht, E. Guenova; Zurich, Lausanne
- P200** **A melanoma mutation panel for individualized treatment of melanoma cultures**
F. Karras, M. Stiller, M. Rosolowski, H. Jahnke, M. Kunz; Leipzig
- P201** **Blockade of programmed cell death protein 1 (PD-1) in Sézary syndrome reduces Th2 phenotype of non-tumoral T lymphocytes, but may enhance tumour proliferation**
I. Saulite, D. Ignatova, Y. Chang, C. Fassnacht, F. Dimitrioua, E. Varypataki, F. Anzengruber, M. Naegeli, A. Cozzio, R. Dummer, J. Scarisbrick, S. Pascolo, W. Hoetzenecker, M. Bobrowicz, E. Guenova; Zurich, St. Gallen, Birmingham, Linz, Warsaw, Lausanne
- P202 (OP01/03)** **Acidosis promotes immune escape by interferon- γ -induced transcriptional induction of PD-L1 via the eIF4F-STAT1-PD-L1 axis on cancer cells**
P. Knopf, S. Hoffmann, N. Hermann, A. Maurer, V. Bucher, M. Poxleitner, B. Tako, D. Sonanini, S. Sinharay, B. Fehrenbacher, I. Gonzalez-Menendez, D. Kramer, M. Schaller, L. Quintanilla-Martinez, K. Schulze-Osthoff, M. Pagel, A. Ferreira Martins, M. Franse; Tuebingen, Houston, Leiden, Berlin
- P203** **Cold atmospheric plasma (CAP) for the selective control of tumor cells**
S. Arndt, P. Unger, C. Schneider, A. Bosserhoff, S. Karrer; Regensburg, Erlangen
- P204** **Strong Hgf signaling in the microenvironment predisposes for the acquisition of Gnaq/11 mutations and promotes Gnaq/11 mediated tumor growth**
S. Seedarala, M. Mengoni, A. Braun, S. Bonifatius, T. Tueting, E. Gaffal; Magdeburg

- P205 (OP05/04) STAT5 is a therapeutically targetable vulnerability in leukemic cutaneous T-cell lymphoma**
S. Dey, H. Sorger, P. Vieyra-Garcia, E. Araujo, R. Graf, B. Spiegl, M. Schleder, T. Graier, I. Perchthaler, R. Fink-Puches, L. Cerroni, M. Surbek, C. Pirker, W. Berger, A. Orlova, M. Herling, O. Merkel, H. Neubauer, P. Gunning, E. Heitzer, L. Kenner, R.; Graz, Vienna, Mississauga, Cologne,
- P206 Senescence enhances sensitivity to TRAIL and immune clearance by reinforcing early apoptotic features**
K. Boehm, M. Roeken; Tuebingen
- P207 miR129-5p is a tumor-suppressor in BRAF(V600E) associated melanoma**
K. Gebhardt, L. Nemetschke, B. Edemir, C. Sunderkoetter, D. Gerloff; Halle
- P208 The role of the citrate homeostasis in melanoma pathogenesis**
K. Drexler, B. Schwertner, M. Berneburg, E. Geissler, M. Mycielska, S. Haferkamp; Regensburg
- P209 Induction of apoptosis in cutaneous squamous cell carcinoma cell by celecoxib in combination with death receptor targeting is based on caspase activation and upregulation of proapoptotic Bcl-2 proteins Puma and Bad**
J. Zhu, S. May, C. Ulrich, E. Stockfleth, J. Eberle; Berlin, Changchun, Jilin Province, Bochum
- P210 Estrogen Receptor Beta Stimulation as a Possible Novel Therapeutic Target for Cutaneous T-Cell Lymphoma**
D. Oezistanbullu, M. Doll, J. Kleemann, N. Zoeller, R. Kaufmann, S. Kippenberger, M. Meissner; Frankfurt a.M.
- P211 Disulfiram efficiently induces cell death in NF1 loss-of-function melanoma cells through a massive induction of reactive oxygen species**
F. Meraz-Torres, S. Ploeger, C. Garbe, H. Niessner, T. Amaral, T. Sinnberg; Tuebingen
- P212 Sulforaphane: A novel anti-lymphangiogenic compound?**
T. Grasmik, B. Dorn, T. Jakob, I. Hrgovic; Giessen
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