



**48th Annual Meeting
of the
Arbeitsgemeinschaft
Dermatologische Forschung**

in collaboration with the
Deutsche Dermatologische Gesellschaft (DDG)

February 23-26, 2022
Virtual

By February 24, 2022

MEETING ORGANISATION

General Organisation

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

Meeting Venue **VIRTUAL**

**Virtual Conference
Platform 2022:**

www.adf-meeting.com

Please register in advance free of charge at
<https://www.adf-meeting.com> for the conference.

Registration Fee 0 € Free of charge

**Oral Presentations
(OP)**

Duration: 7 min.
Discussion: 3 min.

Please check the speaker recorded in this main program
(= first author), if there are any discrepancies, please inform us
immediately.

All Oral Presentation should be self-pre-recorded as mp4 file.

Duration of presentation max. 7 minutes!

Each author will get further instructions by email.

Deadline for mp4 upload: February 16, 2022.

Posters (P)

Virtual eposter only!

All Oral Presentations also have to be presented as posters!

Please design your ePoster as usual as a **PDF file in portrait**

format

with a maximum file size of 15 MB.

NO poster templates will be provided, so you are free to design your
ePoster as you wish.

**Optionally, the poster can be provided with an audio
commentary** in mp3 or mp4 format with a maximum length of 100
seconds and a maximum file size of 15 MB.

Deadline for eposter upload, February 16, 2022.

Certification:

The 48. ADF Meeting will be certificated by the Ärztekammer Berlin.
We **expect** 3 CME per day, Feb 24/25/26, 2022, in total 9 CME.

No DFG session in 2022!

MEETING ORGANISATION

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

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

Wednesday, February 23, 2022:

Translational Dermatological Genetics

14:00-18:00

[Link to virtual Meeting by Zoom](#)

Chairs: C. Has; V. Oji

Meeting-ID: 847 7897 6835

Kenncode: 789308

Thursday, February 24, 2022

Experimental Allergology + Mast cells and Basophils 10:00-12:15

Chair: A. Kerstan

[Link to virtual Meeting by Zoom](#)

Autoimmun blistering skin diseases

08:00-12:30

[Link to virtual Meeting by Webex](#)

Chair: M. Sticherling

Meeting number (access code): 2733 485 5799

Meeting Password: 33MYg3yJYCJ

Epidemiology & Health Service Research

10:00-12:30

[Link to virtual Meeting by Zoom:](#)

Chair: C. Apfelbacher

Meeting-ID: 630 9347 5533

Kenncode: 009650

Atopic Dermatitis & Skin Barrier

10:00-12:00

[Link to virtual meeting by Webex](#)

Chairs: L. Eckhart, S. Weidinger

Meeting number (access code): 2734 551 0580

Meeting password: 5mPfdsWUX24

(56733798 from video systems)

No Meeting of the following working groups in 2022 announced by Jan 19, 2022:

Acne inversa

Cutaneous Lymphoma

Dermatological Endocrinology

Experimental Dermatocology

Pruritus Research

Psoriasis

The programme of the working group meetings, additional details (chair, contact person, etc.) as well as information about the meetings, especially of those which did not provide this information at the time of programme finalisation, can be found on the ADF Homepage (www.adf-online.de).

About the 48. Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung

Dear Colleagues and Friends,

We would like to warmly welcome you to the 48th Annual and second virtual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung. This year, we have received 254 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.

All oral presentations and posters are presented as eposters. There will be 9 poster walks for selected topics. 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 highlights as the *Guenter Goerz Memorial Lecture* and the *Guest Lecture*, which will be given by Erwin Tschachler (Vienna) and Hans-Georg Rammensee (Tuebingen), respectively.

The ADF steering committee would like to thank Elke Schmeckenbecher and Birgit Barnickel for their continuous support and excellent organisation of our second virtual ADF meeting. We are looking forward to an exciting conference and hope to meet again in person at the ADF meeting 2023 in Innsbruck.

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

Timo Buhl
President

Mario Fabri
Secretary

Georg Stary
Treasurer

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

Experts for abstract review

S. Altrichter, Linz	M. Heppt, Erlangen	V. Raker, Muenster
L. Boeckmann, Rostock	J. Hoffmann, Heidelberg	L. Roesner, Hannover
D. Dudziak, Erlangen	F. Lauffer, München	J. Strobl, Vienna
M. Effern, Bonn	V. Lorenz, Goettingen	U. Uslu, Erlangen
P. Esser, Freiburg	M. Mengoni, Magdeburg	A. Vorobyev, Luebeck
L. Flatz, Tuebingen	A. Paschen, Essen	S. Wohlfeil, Mannheim
S. Franz, Leipzig	O.-D. Persa, Cologne	C. Zielinski, Munich
G. Geidel, Hamburg	F. Peters, Helsinki	
D. Gerloff, Halle/Saale	C. Posch, München	

Poster walks and poster committee

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

Adaptive Immunity (F. Solimani)	Inflammatory skin diseases (J. Hundt)
Allergy (A. Kerstan)	Translational Research (P. Brunner)
Cellular Biology (M. Effern)	Tumor Biology (N. Wagner)
Computational Dermatology (M. Farlik)	Tumor Immunology (S. Haferkamp)
Innate Immunity (S. Willenborg)	

We thank Bayer Vital GmbH, Janssen-Cilag GmbH, LEO Pharma, Merck, Sharp & Dohme GesmbH, Sanofi-Aventis Deutschland GmbH, Novartis Pharma GmbH and UCB Pharma for their kind support.

All poster walks will be held as zoom meetings, all interested participants can enter the zoom meeting room of their choice within our virtual conference platform.

All poster walkers are also members of the poster committee, which is coordinated by Maike Effern and Sebastian Haferkamp.

Thursday, February 24, 2022

- 12:15-13:15** **Satellite Symposia:**
News from our pharmaceutical partners (see page 13-14)
- 13:15-13:30** **Break**
- 13:30-13:40** **Welcome Address**
T. Buhl, M. Fabri, G. Stary
- 13:40-14:40** **Oral Presentations I**
Chairs: M. Schmuth, S. Saluzzo
- OP01/01 13:40** **Intratumoral interaction dynamics of CD4+ T cells with myeloid cells**
(P165) **during tumor regression**
B. Kruse, A. Buzzai, N. Shridhar, A. Braun, T. van der Sluis, K. Knauth, J. Ruotsalainen, S. Gellert, C. Benkel, E. Gaffal, S. Kahlfuss, A. Mueller, T. Tueting; Magdeburg
- OP01/02 13:50** **PDE4 inhibition improves clinical lesions in a novel immunization-**
(P129) **induced mouse model of mucous membrane pemphigoid**
S. Patzelt, L. Diel, M. Ranjbar, M. Pigors, S. Emtenani, K. Bieber, M. Holtsche, S. Goletz, L. Chakievska, R. Ludwig, D. Zillikens, E. Schmidt; Luebeck
- OP01/03 14:00** **Single-cell and spatial architecture of human tissue granulomas**
(P149) **reveals an aberrant immune-regulatory program underlying sarcoidosis**
A. Redl, T. Krausgruber, D. Barreca, K. Doberer, L. Unterluggauer, L. Kleissl, D. Atzmueller, C. Mayerhofer, A. Kopf, T. Weichhart, C. Bock, G. Stary; Vienna
- OP01/04 14:10** **nAngiopoietin-like 4 inhibits metastasis formation**
(P209)
C. Huebers, A. Abdul Pari, D. Grieshober, M. Petkov, A. Schmidt, T. Messmer, S. Kapel, N. Gengenbacher, M. Singhal, B. Schieb, C. Fricke, R. Will, K. Remans, J. Utikal, K. Hodiwala-Dilke, S. Kersten, S. Goerdts, H. Augustin, M. Felcht; Mannheim, Heidelberg, Basel, London, Wageningen
- OP01/05 14:20** **Repurposing bortezomib for improved treatment of melanoma by**
(P235) **exploiting immunogenic cell death**
S. Daignault-Mill, D. Moi, R. Ju, B. Zeng, P. de Lima, G. Gunasingh, M. Proctor, J. Brooks, S. Stehens, R. Steptoe, B. Gabrielli, L. Spoerri, R. Dolcetti, N. Haass; Woolloongabba
- OP01/06 14:30** **Blood transcriptome profiling identifies two candidate endotypes of**
(P089) **atopic dermatitis**
E. Rodriguez, L. Moebus, I. Harder, N. Boraczynski, S. Szymczak, M. Huebenthal, D. Stoelzl, S. Gerdes, A. Kleinheinz, S. Abraham, A. Heratizadeh, K. Schaekel, C. Handrick, E. Haufe, T. Werfel, J. Schmitt, S. Weidinger, & the TREATgermany study group; Kiel, Luebeck, Buxtehude, Dresden, Hannover, Heidelberg, Berlin

14:40-15:00

ADF Award I

(Short presentation of awardee)

Paul Langerhans Award*

K. Ghoreschi, M. Fabri

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

15:00-15:15

Break with surprise!

15:15-15:45

Quo Vadis Lecture I

L. Flatz, Tuebingen:

Melanoma treatment strategies:

What will be possible in the future?

Introduction: E. Gaffal

15:45-16:45

Oral Presentations II

Chairs: L. Flatz, K. Meier

**OP02/01 15:45
(P236)**

Oncolytic virus therapy as a powerful promoter of a combined tumor antigen specific Th1 cell and immune checkpoint inhibitor-based cancer immunotherapy

D. Stowbur, S. Berchtold, B. Schoerg, J. Beil, D. Sonanini, I. González-Menéndez, G. Reischl, W. Ehrlichmann, R. Beck, L. Quintanilla-Martinez, M. Roecken, B. Pichler, U. Lauer, M. Kneilling; Tuebingen

**OP02/02 15:55
(P223)**

Role of the damage-associated molecular pattern molecule S100A8/A9 and neutrophils in the peripheral blood and the tumor microenvironment in malignant melanoma

Y. Schwietzer, N. Ammann, C. Mess, J. Stadler, G. Geidel, J. Koett, S. Schneider, A. Bauer, C. Gebhardt; Hamburg

**OP02/03 16:05
(P097)**

Low numbers of cytokine transcripts drive inflammatory skin diseases by initiating amplification cascades in localized epidermal clusters

A. Schaebitz, C. Hillig, A. Farnoud, M. Jargosch, E. Scala, A. Pilz, N. Bhalla, M. Mubarak, J. Thomas, M. Stahle, C. Schmidt-Weber, T. Biedermann, F. Theis, N. Garzorz-Stark, K. Eyerich, M. Menden, S. Eyerich; Stockholm, Munich

**OP02/04 16:15
(P069)**

An unexpected role of Schwann cells in keloid formation

M. Direder, T. Weiss, D. Copic, V. Vorstandlechner, K. Klas, M. Laggner, M. Wielscher, C. Radtke, B. Golabi, H. Ankersmit, M. Mildner; Vienna

**OP02/05 16:25
(P068)**

A new mouse model showing a psoriasis-like phenotype

S. Ghorbanalipoor, C. Hoesl, T. Froehlich, S. Krebs, H. Blum, M. Schneider, M. Dahlhoff; Vienna, Munich, Leipzig

**OP02/06 16:35
(P148)**

Sebaceous glands are actively and differentially involved in the pathogenesis of atopic dermatitis and psoriasis as revealed by spatial transcriptomics

P. Seiringer, C. Hillig, A. Schaebitz, S. Eyerich, M. Jargosch, A. Pilz, F. Fazekas, M. Sochorová, T. Biedermann, M. Menden, F. Gruber, K. Eyerich, D. Toeroecsik; Stockholm, Munich, Neuherberg, Debrecen, Vienna

16:45-17:00 ***Break with another surprise!***

17:00-17:45 **GUENTER GOERZ MEMORIAL LECTURE**
E. Tschachler
Keratinocytes - initiators and suppressors of skin inflammation
Introduction: G. Stary, Vienna

17:45-20:00 **Get Together:
POSTER SESSION (all numbers)**

INCLUDING:

18:00-19:00 **Poster Walks I**

PW01 **Allergy**
A. Kerstan, Würzburg

PW02 **Tumor Biology**
N. Wagner, St. Gallen

PW03 **Tumor Immunology**
S. Haferkamp, Regensburg

PW04 **Inflammatory skin diseases**
J. Hundt, Kiel
sponsored by Janssen-Cilag GmbH

We thank *Bayer Vital GmbH, Janssen-Cilag GmbH, LEO Pharma, Merck, Sharp & Dohme GesmbH, Sanofi-Aventis Deutschland GmbH, Novartis Pharma GmbH and UCB Pharma for their kind support.*

All poster walks will be held as zoom meetings.

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Friday, February 25, 2022

12:15-13:20 **Satellite Symposia:**
News from our pharmaceutical partners (see page 13-14)

13:20-13:30 **Break**

13:30-14:30 **Oral Presentations III**
Chairs: P. Stoitzner, N. Romani

OP03/01 13:30 **Type 2 immunity regulates dermal white adipocyte function**
(P138) S. Satzinger, S. Willenborg, X. Ding, D. Voehringer, A. Roers, S. Eming;
 Cologne, Erlangen, Dresden

OP03/02 13:40 **Neurotransmitters as modulators of immune functions in neutrophils**
(P120) A. Schmitz, M. Dinarvand, S. Kruss, L. Erpenbeck;
 Muenster, Goettingen, Bochum

OP03/03 13:50 **Local accumulation of iron in the skin affects crosstalk and phenotypes**
(P070) **of immune and tissue cells**
 M. Torregrossa, A. Kakpenova, J. Simon, S. Franz; Leipzig

OP03/04 14:00 **Mutational evolution in the Hgf-Cdk4 mouse melanoma model**
(P222) M. Mengoni, A. Braun, S. Bonifatius, S. Seedarala, D. Schanze, T. Tueting,
 E. Gaffal; Magdeburg

OP03/05 14:10 **Imiquimod induced psoriasis requires non-classical monocytes**
(P134) Q. Chen, S. Oehrl, S. Moos, S. Ring, L. Freund, S. Meisel, F. Kurschus,
 K. Schaekel; Heidelberg

OP03/06 14:20 **Using natural immunity to control cellular senescence**
(P035) P. Maity, K. Singh, A. Koroma, L. Krug, S. Kochanek, M. Wlaschek, H. Geiger,
 H. Jumaa, K. Scharffetter-Kochanek; Ulm

14:30-14:45 **ADF Awards II**
 (Short presentations of awardee)

Egon Macher Award*
 K. Loser, M. Fabri

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

14:45-15:00 **Break + Best of ADF Winter Schools 1**

15:00-15:30 **Quo Vadis Lecture II**
 L. Erpenbeck, Muenster
Of Popcorn and Sponges:
The Inner Workings of Neutrophils
 Introduction: T. Buhl

Friday, February 25, 2022

15:30-16:30

Poster Walks II

PW05

Cellular Biology

M. Effern, Bonn

sponsored by Bayer Vital GmbH

PW06

Innate Immunity

S. Willenborg, Cologne

PW07

Adaptive Immunity

F. Solimani, Marburg

sponsored by Sanofi-Aventis Deutschland GmbH

PW08

Computational Dermatology

M. Farlik, Vienna

PW09

Translational Research

P. Brunner, Vienna

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16:30-16:45

Break + Best of ADF Winter Schools 2

16:45-17:45

GUEST LECTURE

Hans-Georg Rammensee, Tuebingen

Peptide vaccination in personalized cancer therapy

Introduction/discussion: R. Eming

17:45-18:00

Break

18.00-19:00

**ADF General Assembly
including election of the ADF Board**

Saturday, February 26, 2022

09:00-10:00

Oral Presentations IV

Chairs: K. Loser, A. Vorobyev

**OP04/01 09:00
(P125)**

Evidence for direct binding of complement components to the immunodominant NC16A domain of collagen XVII

C. Hammers, L. Tomaschewski, M. Adem, L. Komorowski, H. Tang, A. Verschoor; Luebeck, Philadelphia

**OP04/02 09:10
(P053)**

Circulating tumor derived cell-free RNA (cfRNA) as a potential biomarker in melanoma

L. Albrecht, R. Varaljai, A. Hoewner, S. Lueong, N. von Neuhof, A. Sucker, W. Sondermann, D. Schadendorf, A. Roesch; Essen, Essen

**OP04/03 09:20
(P104)**

Th17 cell intrinsic engagement of the NLRP3 inflammasomes promotes IL-1a production and autocrine pathogenicity

Y. Chao, C. Zielinski; Jena

**OP04/04 09:30
(P196)**

Spatial Transcriptomics of primary melanoma lesions

M. Rade, D. Loeffler, F. Grosse, A. Scholz, C. Blumert, K. Reiche, M. Kunz; Leipzig

**OP04/05 09:40
(P030)**

LRRC8A: A new player in epidermal physiology?

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

**OP04/06 09:50
(P208)**

Deficiency of Lyve1 protects against hepatic melanoma metastasis

A. Jauch, S. Wohlfeil, B. Dietsch, C. Weller, M. Kittel, A. Stojanovic, A. Cerwenka, S. Goerdts, C. Géraud; Mannheim

10:00-10:30

Quo Vadis Lecture III

S. Eyerich, Munich

Two decades of omics – what's next?

Introduction: C. Gebhardt

10:30-10:45

Break

10:45-11:00

ADF Awards III

ADF Dermato Oncology Award*

M. Kunz

ADF/ECARF Award for European Allergy Research**

T. Zuberbier

Thanks from the ADF to the

**Erwin & Irmgard Egner-Stiftung*

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

Saturday, February 26, 2022

11:00-12:00

Oral presentations V

Chairs: D. Dudziak, S. Wohlfeil

**OP05/01 11:00
(P246)**

DPP4 prevents hair follicle activation and regeneration by modulating Wnt signaling

M. Helm, J. Loui, J. Simon, R. Ferrer; Leipzig

**OP05/02 11:10
(P247)**

Slc7a11 controls fibroblast differentiation through ferroptotic cell death

S. Muecklich, J. Tiemann, J. Haub, M. Roecken, M. Kneilling, R. Mehling, S. Braasch, K. Steinbrink, V. Raker; Mainz, Muenster, Bonn, Tuebingen

**OP05/03 11:20
(P153)**

Desmoglein 3 extracellular domain 5 specific IgG is pathogenic in pemphigus vulgaris

C. Hudemann, Y. Exner, R. Pollmann, K. Schneider, T. Schmidt, V. Spindler, D. Rafei-Shamsabadi, F. Voellner, J. Waschke, R. Tikkanen, M. Hertl, R. Eming; Marburg, Giessen, Munich, Freiburg

**OP05/04 11:30
(P101)**

Cytokine-induced senescence in melanoma cells is associated with a high proinflammatory secretome

L. Homann, M. Rentschler, E. Brenner, K. Boehm, S. Weidemann, M. Roecken, T. Wieder; Tuebingen

**OP05/05 11:40
(P088)**

Morpholino-mediated knockdown of -secretase-subunit Nicastrin causes hypopigmentation due to disturbed melanoblast development and indicates evolutionarily distinct roles in zebrafish and humans

M. Hermasch, H. Janning, R. Perera, V. Schnabel, N. Rostam, F. Ramos-Gomes, W. Muschalek, A. Bennemann, F. Alves, D. Ralser, R. Betz, M. Schoen, R. Dosch, J. Frank; Goettingen, Bonn

**OP05/06 11:50
(P042)**

Targeting mast-cell plasticity re-shapes the tumor microenvironment of melanoma

C. Iuliano, S. Kaesler, T. Biedermann; Munich

12:00-12:20

ADF Awards IV

ADF Translational Research Awards*

J. M. Baron

ADF Atopic Dermatitis Research Award**

M. Fabri

Thanks from the ADF to the

**Novartis Pharma GmbH and **Sanofi-Aventis Deutschland GmbH*

Poster Awards

M. Effern, S. Haferkamp, M. Fabri

The ADF thanks Almirall Hermal GmbH, Sanofi Aventis Deutschland GmbH and BioLegend GmbH for their support.

12:20-12:30

Acknowledgements, Farewell, End of Meeting

T. Buhl, M. Fabri, G. Stary

NEW in PROGRAM:

**Satellite Symposia:
News from our pharmaceutical partners**

Thursday, February 24, 2022

12:15-12:45 SatS01 Sanofi-Aventis Deutschland GmbH:
Typ-2-Inflammation im Fokus
S. Weidinger, Kiel; F. Lauffer, München

12:45-13:00 SatS02 Bayer Vital GmbH:
*Molecular effects of dexpanthenol in wound healing
after medical or aesthetic laser application
- insights from 3D models*
S. Huth, Aachen

13:00-13:15 SatS03 LEO Pharma GmbH:
*IL-13 – ein innovativer Ansatz bei Atopischer
Dermatitis*
N. Reider, Innsbruck

Supported Posterwalks:

18:00-19:00 Poster Walks I

PW01 Allergy
A. Kerstan, Würzburg

PW02 Tumor Biology
N. Wagner, St. Gallen

PW03 Tumor Immunology
S. Haferkamp, Regensburg

PW04 Inflammatory skin diseases
J. Hundt, Kiel

We thank *Bayer Vital GmbH, Janssen-Cilag GmbH, LEO Pharma, Merck, Sharp & Dohme GesmbH, Sanofi-Aventis Deutschland GmbH, Novartis Pharma GmbH and UCB Pharma* for their kind support.

Friday, February 25, 2022

- 12:15-12:50 SatS04 Merck, Sharp & Dohme:**
Adjuvant Melanoma: Options and Management of Therapy
C.Posch, Vienna
- 12:50-13:05 SatS05 Janssen-Cilag GmbH:**
Bittersweet Memories – Das Gedächtnis der Haut in der PsO
G. Stary, Vienna
- 13:05-13:20 SatS06 Novartis Pharma GmbH**
Development of novel 3D long-term skin models for the investigation of targeted therapy in Psoriasis
J. M. Baron, Aachen

Supported Posterwalks:

- 15:30-16:30 Poster Walks II**
- PW05 Cellular Biology**
M. Effern, Bonn
- PW06 Innate Immunity**
S. Willenborg, Cologne
- PW07 Adaptive Immunity**
F. Solimani, Marburg
- PW08 Computational Dermatology**
M. Farlik, Vienna
- PW09 Translational Research**
P. Brunner, Vienna

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POSTER SESSIONS

All posters: Thursday, February 24, 17:45-20:00

Allergy

- P001 Staphylococcus aureus Fibronectin-binding protein 1 induces a specific type-2 immune response in atopic dermatitis**
L. Roesner, A. Farag, S. Wieschowski, A. Heratizadeh, B. Eiz-Vesper, W. Kwok, R. Valenta, T. Werfel; Hannover, Seattle, Vienna, Moscow
- P002 Investigation of adverse reactions in tattooed skin through histological and chemical analysis**
B. Kurz, B. Haslboeck, K. Siewert, K. Weiss, W. Baeumler; Regensburg, Berlin
- P003 Prevention of allergen-dependent airway and intestinal inflammation in PBMC-engrafted humanized mice by short chain fatty acids or the probiotic formulation BactoFlor® 10/20**
I. Bellinghausen, B. Weigmann, S. Sudowe, D. Schuppan, J. Saloga; Mainz, Erlangen
- P004 Anti-allergic effect of a vitamin E derivate semi-synthesized from garcinoic acid**
R. Riedl, B. Morgner, M. Wallert, S. Lorkowski, C. Wiegand; Jena
- P005 Anti CCL17/22 aptamers as possible therapeutic agents to suppress inflammation in contact hypersensitivity**
M. Gottschalk, A. Jonczyk, G. Mayer, I. Foerster; Bonn
- P006 Mast cell activation syndrome is more often suspected than diagnosed ? A prospective real-life study**
T. Buttgereit, S. Gu, L. Carneiro-Leão, A. Gutsche, M. Maurer, F. Siebenhaar; Berlin, Oporto
- P007 Prevalence and relevance of IgE-autoantigen immunocomplexes in chronic spontaneous urticaria**
Y. Xiang, P. Kolkhir, C. Steinert, J. Scheffel, M. Sauer, K. Krause, M. Metz, M. Maurer, S. Altrichter; Berlin, Moscow, Linz
- P008 Characterization of itch-associated mediators in mycosis fungoides**
M. Hu, T. Hawro, C. Steinert, U. Reidel, J. Scheffel, M. Metz; Berlin
- P009 Serologic approach to allergy diagnostics in hymenoptera allergy considering ratios of specific IgE, IgG, IgG4 and total IgE levels**
M. Hebst, S. Emmert, R. Panzer; Rostock

SCIENTIFIC PROGRAMME

- P010** **MRGPRX2 is highly expressed in skin lesions of patients with indolent systemic mastocytosis and shows a distinct pattern**
P. Pyatilova, H. Bonnekoh, Q. Jiao, J. Scheffel, S. Frischbutter, M. Hermans, B. Youngblood, S. Moñino-Romero, M. Maurer, F. Siebenhaar, P. Kolkhir; Berlin, Suzhou, Rotterdam, Redwood City, CA, Moscow
- P011** **A novel beads-based protocol to obtain high purity total IgE from human serum**
F. Badloe, S. De Vriese, T. De Bruyn Carlier, E. Vandersichel, J. Scheffel, M. Maurer, J. Ring, J. Gutermuth, I. Kortekaas Krohn; Jette, Berlin, Munich
- P012** **Use of two tools for the assessment of the methodological quality of SRs on early compared to later introduction of allergenic complementary foods and fluids for early childhood allergy prevention**
U. Matteredne, M. Theurich, J. Wang, M. Strecker, A. Hasoon, C. Apfelbacher; Magdeburg
- P013** **Assessment of histamine in skin interstitial fluid (ISF) extracted by hollow microneedles in ex vivo skin models of allergy and chronic urticaria**
N. Shi, M. Mikael Hillmering, P. Rangsten, A. Klein, C. Vera-Ayala, S. Moñino-Romero, M. Maurer, M. Renlund, J. Scheffel; Berlin, Kista
- P014** **Microbial dysbiosis in a mouse model of atopic dermatitis mimics shifts in human microbiome and correlates with the key pro-inflammatory cytokines IL-4, IL-33 and TSLP**
Y. Amar, E. Schneider, M. Koeberle, T. Seeholzer, S. Musiol, I. Hoelge, S. Gschwendtner, D. Krappmann, T. Biedermann, C. Schmidt-Weber, F. Alessandrini; Munich, Planegg, Neuherberg
- P015** **A prospective case-control study with double exposure to ozone and grass pollen in the allergen exposure chamber: Rhino-conjunctival symptoms and skin physiology are altered in patients with allergic rhinoconjunctivitis**
J. Fluhr, P. Joshi, S. Al Suwaidi, K. Bermann, T. Zuberbier; Berlin
- P016** **Epidermal barrier homeostasis is mast cell dependent**
L. Herzog, J. Scheffel, M. Maurer, J. Fluhr; Berlin

Cellular Biology

- P017** **KDM5B's role in creating radiation synthetic vulnerabilities and its effects on sequential therapy combinations**
B. Shannan, J. Matschke, S. Larafa, D. Schadendorf, V. Jendrossek, A. Roesch; Essen
- P018** **Assessment of senescence markers after ex vivo treatment of human skin biopsies with senolytics**
L. Volkheimer, T. Bernhardt, J. Mensch, A. Hartmann, M. Walter, G. Fuellen, S. Emmert, L. Boeckmann; Rostock
- P019** **NADPH oxidase inhibition rescues keratinocytes from elevated oxidative stress in a 2D atopic dermatitis and psoriasis model**
H. Emmert, M. Fonfara, C. Brodersen, E. Rodriguez, S. Weidinger; Kiel
- P020** **Hidradenitis suppurativa-like reconstructed epidermal equivalents**
I. Haferland, T. Ickelsheimer, S. Diehl, C. Buerger, R. Kaufmann, A. Pinter, A. Koenig; Frankfurt/Main

SCIENTIFIC PROGRAMME

- P021** **Function of TRPV4 ion channel during hypotonic stress response and epidermal barrier formation**
D. Ritzmann, I. Geistler-Al-Madani, M. Jahn, V. Lang, S. Diehl, O. Rauh, C. Buerger, T. Fauth; Zwingenberg, Frankfurt/Main, Darmstadt
- P022** **Pitfalls in the application of dispase-based keratinocyte dissociation assay for in vitro analysis of Pemphigus**
M. Schmidt, M. Feoktistova, D. Panayotova-Dimitrova, A. Yazdi; Aachen
- P023** **Cellular and cutaneous biocompatibility of anti-inflammatory compounds**
B. Morgner, R. Riedl, O. Werz, S. Lorkowski, C. Wiegand; Jena
- P024** **A standardized 3D-skin wound model for antimicrobial testing**
S. Fink, D. Mogrovejo, V. Wienke, A. Kampe, F. Brill, C. Wiegand; Jena, Hamburg
- P025** **Immortalized keratinocyte cell lines as in vitro models for inflammatory skin diseases**
V. Cruz, M. Jahn, V. Lang, S. Diehl, D. Ritzmann, R. Back, R. Kaufmann, T. Fauth, C. Buerger; Frankfurt/Main, Zwingenberg
- P026** **Functional characterization of ELOVL7, an enzyme strongly expressed in sebaceous glands**
B. Wagner, H. Schroeder, L. Klein, M. Schneider, M. Dahlhoff; Vienna, Leipzig
- P027** **Differential induction of antimicrobial peptides and proinflammatory mediators in keratinocytes exposed to bacteria of the skin microbiota**
L. Wohlgemuth, D. Ochlich, L. Walther, F. Rademacher, R. Glaeser, J. Harder; Kiel
- P028** **A plant extract mixture rich in flavonoids inhibits induction of inflammatory factors and restores down-regulation of differentiation markers in an atopic dermatitis in vitro model**
N. Heinemann, F. Rademacher, R. Glaeser, H. Vollert, J. Harder; Kiel, Bad Segeberg
- P029** **Staphylococcus aureus activates the Aryl Hydrocarbon Receptor in Human Keratinocytes**
E. Stange, F. Rademacher, K. Drerup, N. Heinemann, R. Glaeser, J. Harder; Kiel
- P030** **LRR8A: A new player in epidermal physiology?**
(OP04/05) M. Jahn, V. Cruz, V. Lang, S. Diehl, R. Kaufmann, O. Rauh, T. Fauth, C. Buerger; Frankfurt/Main, Zwingenberg, Darmstadt
- P031** **High-resolution expansion microscopy of neutrophil granulocytes and NETs to visualize nuclear and cellular morphology**
L. Rusch, L. Erpenbeck; Goettingen, Muenster
- P032** **Aberrant destabilization of the tuberous sclerosis complex (TSC) controls mTORC1 activity in psoriasis**
V. Lang, A. Ferreri, S. Diehl, R. Kaufmann, C. Buerger; Frankfurt/Main
- P033** **Short chain dehydrogenase/reductase family 16C member 5 (SDR16C5) is a differentiation-dependent regulator of retinoid metabolism in human keratinocytes**
M. Lindtner, J. Lachner, S. Abbas Zadeh, E. Tschachler, L. Eckhart; Vienna
- P034** **Epithelial transglutaminase activities in biomedical model systems**
M. ?urbek, A. Sachslehner, L. Eckhart; Vienna

SCIENTIFIC PROGRAMME

- P035 (OP06/03) Using natural immunity to control cellular senescence**
P. Maity, K. Singh, A. Koroma, L. Krug, S. Kochanek, M. Wlaschek, H. Geiger, H. Jumaa, K. Scharffetter-Kochanek; Ulm
- P036 Sodium butyrate accelerates healing of diabetic wounds through resetting the epigenetic machinery of macrophages**
K. Singh, R. Pandey, A. Koroma, L. Krug, A. Hainzl, M. Wlaschek, P. Maity, K. Scharffetter-Kochanek; Ulm
- P037 The Adaptive Response of Old ABCB5+ MSCs is Changed Upon Exposure to LPS**
P. Haas, K. Singh, S. Munir, P. Maity, A. Basu, S. Schatz, D. Crisan, C. Ganss, M. Wlaschek, M. Kluth, K. Scharffetter-Kochanek; Ulm, Heidelberg
- P038 Disulfiram enhance the apoptotic activity of MEK inhibitor trametinib by inducing endoplasmic reticulum stress in NF1 loss-of-function Melanoma**
F. Meraz-Torres, C. Garbe, H. Niessner, T. Sinnberg; Tuebingen

Chemokines/Cytokines

- P039 Macrophage migration inhibitory factor (MIF) and its homolog D-dopachrome tautomerase (D-DT) are significant promoters of UVB- but not chemically induced non-melanoma skin cancer**
S. Huth, L. Huth, R. Heise, Y. Marquardt, G. Fingerle-Rowson, P. Boor, A. Yazdi, J. Bernhagen, J. Baron; Aachen, Cologne
- P040 Dissection of the effects of TH2 cytokines on a novel atopic dermatitis model using hair follicle-derived keratinocytes**
H. Emmert, F. Rademacher, H. Norsgaard, S. Gerdes, S. Weidinger, J. Harder; Kiel, Ballerup
- P041 Unraveling the function of autocrine IL-9/IL-9R signals in Atopic Dermatitis**
N. Bertschi, O. Steck, F. Luther, C. Bazzini, C. Schlapbach; Bern
- P042 (OP06/05) Targeting mast-cell plasticity re-shapes the tumor microenvironment of melanoma**
C. Iuliano, S. Kaesler, T. Biedermann; Munich

Clinical Research

- P043 How the molecular classifier can enhance the clinical and histopathological differentiation between psoriasis and eczema. Insights from the Heidelberg cohort study**
P. Bentz, K. Eyerich, N. Garzorz-Stark, E. Weisshaar; Heidelberg, Munich
- P044 IRAK4 drives pathogenic processes in inflammatory skin diseases**
M. Jargosch, S. Lavazais, F. Ohm, C. Jagerschmidt, P. Fallon, P. Clément-Lacroix, F. Lauffer, R. Brys, K. Eyerich; Munich, Romainville, Dublin, Mechelen, Stockholm

SCIENTIFIC PROGRAMME

- P045** **Identifying predictors of high response levels in ixekizumab-treated patients with moderate-to-severe plaque psoriasis**
K. Reich, K. Eyerich, A. Costanzo, M. Lebwohl, A. Garrelts, D. Saure, C. Schuster, A. Blauvelt, C. Machacek;
Hamburg, Munich, Milan, New York, Indianapolis, Vienna, Portland
- P046** **Progressive microbiome dysregulation with predominance of Staphylococcus correlates with wound burden and disease activity in recessive dystrophic epidermolysis bullosa: a prospective case-control study**
A. Reimer-Taschenbrecker, A. Kuenstner, M. Hirose, S. Huebner, S. Gewert, S. Ibrahim, H. Busch, C. Has; Freiburg, Luebeck
- P047** **Urticarial vasculitis versus chronic spontaneous urticaria - Natural history, disease course and response to treatment ? a UCARE study**
H. Bonnekoh, J. Jelden-Thurm, P. Kolkhir, A. Allenova, I. Cherrez-Ojeda, I. Danilycheva, R. Fachini Jardim Criado, P. Criado, A. Gelincik, T. Hawro, E. Kocatuerk, M. Khoshkhui, M. Metz, I. Nasr, M. Stec, Z. Zhao, S. Altrichter, M. Goncalo, A. Gimenez-Arna;
Berlin, Moscow, Guayaquil, Sao Paulo, Fatih- Istanbul, Istanbul, Mashhad, Muscat, Potsdam, Beijing, Linz, Coimbra, Barcelona
- P048** **Cold atmospheric plasma versus diclofenac 3% gel in patients with actinic keratoses**
F. Koch, K. Salva, M. Wirtz, E. Hadaschik, R. Varaljai, D. Schadendorf, J. Kehrmann, A. Roesch; Essen, Zurich
- P049** **Association between atopic dermatitis and cardiovascular diseases: A large multicenter observational study (ProRaD).**
D. Fehr, L. Maintz, N. Herrmann, Y. Mitamura, A. Dreher, C. Akdis, R. Lauener, C. Rhyner, P. Schmid-Grendelmeier, C. Traidl-Hoffmann, . CK-CARE study group, T. Bieber, M. Brueggen; Zurich, Davos, Bonn, St. Gallen, Augsburg
- P050** **Nectin-1 determines the susceptibility of malignant melanoma to oncolytic herpes simplex virus in vitro and in vivo**
B. Schwertner, G. Lindner, C. Toledo Stauner, E. Klapproth, C. Magnus, A. Rohrhofer, S. Gross, B. Schuler-Thurner, V. Oettl, N. Feichtgruber, K. Drexler, K. Evert, M. Krahn, M. Berneburg, B. Schmidt, P. Schuster, S. Haferkamp; Regensburg, Erlangen, Muenster
- P051** **Addiction in acne inversa / hidradenitis suppurativa patients - much more common than estimated**
W. Steinhauser, M. Schielein, D. Rogner, H. Obermann, A. Zink, A. Boehner, T. Volz; Munich, Stockholm
- P052** **Profiling of autoreactive CD4+ T cells in pemphigus vulgaris patients**
K. Wieber, R. Pollmann, C. Zimmer, D. Didona, M. Hertl; Marburg
- P053 (OP04/02)** **Circulating tumor derived cell-free RNA (cfRNA) as a potential biomarker in melanoma**
L. Albrecht, R. Varaljai, A. Hoewner, S. Lueong, N. von Neuhof, A. Sucker, W. Sondermann, D. Schadendorf, A. Roesch; Essen, Essen
- P054** **In Vivo Visualization of Tattoo Particles and Tattoo Complications Using Multiphoton Tomography and Fluorescence Lifetime Imaging**
L. Nguyen, K. Herberger, C. Mess, S. Schneider, V. Huck; Hamburg

SCIENTIFIC PROGRAMME

- P055** **Systemic treatment response and response-prediction using skin microbiome and clinical data from the TREATgermany registry**
J. Hartmann, L. Moitinho-Silva, N. Boraczynski, I. Harder, E. Rodriguez, E. Haufe, A. Kleinheinz, A. Heratizadeh, S. Abraham, C. Handrick, K. Schaekel, K. Ertner, A. Wollenberg, J. Schmitt, T. Werfel, S. Weidinger;
Kiel, Dresden, Buxtehude, Hannover, Berlin, Heidelberg, Nuernberg, Munich
- P056** **Evaluation of a sodium hypochlorite-containing wound gel in the treatment of split-skin donor sites**
W. Konschake, M. Tembulatow, M. Juenger, S. Lutze; Greifswald
- P057** **EARLYemollient: a randomised controlled pilot trial of daily emollient use in children with high risk for atopic eczema**
I. Harder, M. Fonfara, D. Stoelzl, N. Boraczynski, C. Schwalm, A. Erkens, E. Rodriguez, S. Kerzel, M. Kabesch, J. Schmitt, R. Foelster-Holst, S. Weidinger, H. Emmert;
Kiel, Regensburg, Dresden
- P058** **An Adipose-derived Stem Cell-engineered patch represents a promising treatment for chronic wounds.**
O. Preynat-Seauve, F. Lanza, E. Brioudes, A. Modarressi, H. Vuagnat, W. Boehncke, K. Krause, N. Brembilla; Geneva, Geneve
- P059** **Merkel cell Polyomavirus (MCVpP) as a biomarker of treatment response in patients with Merkel Cell Carcinomas**
S. Mohsen, E. Mueller-Hermelink, S. Korsing, K. Meier, M. Schlaak, T. Eigentler, K. Ghoreschi, F. Hilke; Berlin
- P060** **Successful treatment of Netherton syndrome with dupilumab implicates a role for Th2 signaling in this type of ichthyosis**
S. Blunder, M. Schmuth, R. Gruber; Innsbruck
- P061** **Full-body blue light irradiation improves pruritus in atopic dermatitis - A Randomized Placebo-controlled Clinical Trial (AD-Blue)**
T. Buhl, M. Santibanez Santana, S. Forkel, C. Kromer, C. Moebs, W. Pfuetzner, S. Pfeiffer, H. Laubach, W. Boehncke, J. Liebmann, M. Born, M. Schoen;
Goettingen, Marburg, Geneva, Aachen
- P062** **Sex-disaggregated population analysis in patients with hidradenitis suppurativa**
R. Sabat, A. Tsaousi, K. Ghoreschi, S. Schneider-Burrus, K. Wolk; Berlin
- P063** **Shift of the microbial composition profile in atopic dermatitis patients upon dupilumab treatment**
W. Francuzik, K. Pazur, H. El-Mahmoud, M. Worm; Berlin

Dermato-Endocrinology

- P064** **The alpha7 nicotinic acetylcholine receptor ? a protective factor against endothelial to mesenchymal transition (EMT) in fibrosis?**
A. Stegemann, K. Steinbrink, M. Boehm; Muenster
- P065** **Fibroblast function in vitro can be modulated by the melanocortin tripeptide derivatives KdPT and WOL074-029**
M. Boehm, M. Soeberdt, C. Abels, K. Steinbrink, A. Stegemann; Muenster, Bielefeld

Dermatopathology

- P066** **Efficient homology-directed repair CRISPR/Cas9-based gene editing in junctional epidermolysis bullosa keratinocytes**
I. Petkovic, J. Bischof, B. Liemberger, O. March, J. Reichelt, H. Binder, D. Strunk, J. Bauer, T. Kocher, U. Koller; Salzburg
- P067** **The C5a/C5a receptor axis as a potential target in bullous pemphigoid**
S. Emtenani, M. Holtsche, R. Stahlkopf, D. Seiler, T. Burn, D. Zillikens, C. Karsten, J. Koehl, E. Schmidt; Luebeck, Luebeck, Wilmington
- P068**
(OP02/05) **A new mouse model showing a psoriasis-like phenotype**
S. Ghorbanalipoor, C. Hoesl, T. Froehlich, S. Krebs, H. Blum, M. Schneider, M. Dahlhoff; Vienna, Munich, Leipzig
- P069**
(OP02/04) **An unexpected role of Schwann cells in keloid formation**
M. Direder, T. Weiss, D. Copic, V. Vorstandlechner, K. Klas, M. Laggner, M. Wielscher, C. Radtke, B. Golabi, H. Ankersmit, M. Mildner; Vienna
- P070**
(OP03/03) **Local accumulation of iron in the skin affects crosstalk and phenotypes of immune and tissue cells**
M. Torregrossa, A. Kakpenova, J. Simon, S. Franz; Leipzig
- P071** **The Translatome of Junctional Epidermolysis Bullosa**
M. Wiessner, R. Wagner, B. Zellinger, A. Friedrich, C. Brandstetter, H. Breitenbach-Koller, J. Bauer; Salzburg
- P072** **Poster withdrawn!**
Characterization of DIRAS1 in skin homeostasis and tumorigenesis
J. Primus, S. Ghorbanalipoor, M. Dahlhoff; Vienna
- P073** **Psoriatic inflammation modulates mechanotransduction and cell adhesion in human epidermis**
J. Borowczyk, J. Drukala, N. Brembilla, G. Kaya, A. Ivanov, W. Boehncke, M. Shutova; Geneva, Cracow, Cleveland, OH
- P074** **Improvement of experimental bullous pemphigoid by targeting the IL-17A axis is not dependent on neutrophils and macrophages**
L. Chakievska, S. Jukic, S. Goletz, S. Patzelt, D. Zillikens, C. Hoelscher, E. Schmidt; Luebeck, Borstel
- P075** **Specialized Histological and Histomorphometrical Analytical Methods for Biocompatibility Testing of Biomaterials in (Pre-) Clinical Studies**
M. Barbeck, A. Proehl, S. Pantermehl, R. Panzer, S. Emmert, O. Jung; Berlin, Rostock
- P076** **Human skin organ culture is a model for spontaneous skin ageing.**
M. van Lessen, A. Mardaryev, D. Broadley, C. Mauri, M. Bertolini, J. Edelkamp, T. Biro, R. Paus; Muenster, Florida, Bradford
- P077** **Unraveling the role of extracellular matrix modifications in skin inflammation**
P. Balsini, M. Buchberger, D. Symmank, W. Weninger, K. Pfisterer; Vienna

SCIENTIFIC PROGRAMME

- P078 Characterization of type IIb autoimmune chronic spontaneous urticaria markers (CAPTUM)**
S. Moñino-Romero, E. Grekowitz, J. Fluhr, V. Hultsch, L. Kiefer, P. Pyatilova, D. Terhorst-Molawi, Y. Xiang, A. Gutsche, F. Siebenhaar, M. Maurer, P. Kolkhir; Berlin, Moscow

Epidemiology

- P079 Somatization in skin diseases - Results from a population-based study**
K. Piontek, A. Arnold, H. Grabe, H. Voelzke, C. Apfelbacher; Magdeburg, Greifswald
- P080 The association of childhood maltreatment with skin diseases and allergy in adult age: Results from a population-based cohort study**
K. Piontek, U. Wiesmann, A. Arnold, H. Grabe, H. Voelzke, C. Apfelbacher; Magdeburg, Greifswald
- P081 Effectiveness, safety and drug survival of dupilumab in patients with moderate to severe atopic dermatitis: an interim analysis of the TREATgermany registry**
D. Stoelzl, N. Boraczynski, A. Heratizadeh, E. Haufe, I. Harder, S. Abraham, L. Heinrich, A. Kleinheinz, A. Wollenberg, E. Weisshaar, K. Schaekel, K. Ertner, F. Wiemers, J. Wildberger, M. Worm, R. von Kiedrowski, I. Effendy, A. Asmussen, M. Augustin, M. Pawlak, M. Sticherling, A. Zink, M. Hilgers, C. Handrick, S. Quist, B. Schwarz, P. Staubach-Renz, M. Bell, S. Hong-Weldemann, B. Homey, J. Bruecher, J. Schmitt, T. Werfel, S. Weidinger
Kiel, Hannover, Dresden, Buxtehude, Munich, Heidelberg, Nuernberg, Leipzig, Bad Soden, Berlin, Selters/Westerwald, Bielefeld, Bremen, Hamburg, Heiligenstadt, Erlangen, Aachen, Mainz, Langenau, Andernach, Freiburg, Duesseldorf, Magdeburg
- P082 Content validity of RECAP in Dutch, English and German to measure eczema control in young people with atopic eczema: cognitive interview study**
M. Gabes, A. Ragamin, A. Baker, G. Kann, T. Donhauser, D. Gabes, L. Howells, K. Thomas, J. Oosterhaven, S. Pasmans, M. Schuttelaar, C. Apfelbacher; Magdeburg, Rotterdam, Nottingham, Regensburg, Groningen
- P083 Hyperhidrosis Quality of Life Index (HidroQoL): further validation by applying classical test theory and item response theory using data from a phase III b randomized controlled trial**
M. Gabes, G. Kann, T. Donhauser, C. Masur, P. Kamudoni, S. Salek, C. Abels, C. Apfelbacher; Magdeburg, Regensburg, Bielefeld, Cardiff, Hertfordshire

Genetics

- P084 Xeroderma pigmentosum: Genetic und functional analyses of eight new patients**
M. Martens, W. Sponholz, N. Di Donato, J. Pormann, M. Hasanhodzic, T. Scholz, M. Hempel, S. Emmert, L. Boeckmann; Rostock, Dresden, Tuzla, Hamburg

SCIENTIFIC PROGRAMME

- P085** **Quality of life and clinical characteristics of self-improving congenital ichthyosis within the disease spectrum of autosomal recessive congenital ichthyosis**
L. Hake, K. Suessmuth, C. Drerup, K. Komlosi, J. Kopp, D. Metze, H. Traupe, I. Hausser, K. Eckl, H. Hennies, J. Fischer, V. Oji;
Buxtehude, Muenster, Freiburg, Heidelberg, Huddersfield, Innsbruck, Cologne
- P086** **MC4R mediated melanocortin signaling antagonizes central endogenous opioid signaling to cause high pain thresholds in genetic mouse models of red hair**
L. Kemény, C. Robinson, A. Hermann, D. Fisher; Boston, Budapest
- P087** **Subcellular compartmentalization of STIM1 may distinguish Darier disease from Hailey-Hailey disease**
H. Stanisz, C. Mitteldorf, M. Schoen, J. Frank; Goettingen
- P088**
(OP05/05) **Morpholino-mediated knockdown of -secretase-subunit Nicastrin causes hypopigmentation due to disturbed melanoblast development and indicates evolutionarily distinct roles in zebrafish and humans**
M. Hermasch, H. Janning, R. Perera, V. Schnabel, N. Rostam, F. Ramos-Gomes, W. Muschalek, A. Bennemann, F. Alves, D. Ralser, R. Betz, M. Schoen, R. Dosch, J. Frank; Goettingen, Bonn
- P089**
(OP06/01) **Blood transcriptome profiling identifies two candidate endotypes of atopic dermatitis**
E. Rodriguez, L. Moebus, I. Harder, N. Boraczynski, S. Szymczak, M. Huebenthal, D. Stoelzl, S. Gerdes, A. Kleinheinz, S. Abraham, A. Heratizadeh, K. Schaekel, C. Handrick, E. Haufe, T. Werfel, J. Schmitt, S. Weidinger, & the TREATgermany study group; Kiel, Luebeck, Buxtehude, Dresden, Hannover, Heidelberg, Berlin
- P090** **Generation and characterization of different CRISPR/Cas9-mediated XPA-knockouts in A375 melanoma cells**
V. Banicka, M. Martens, S. Emmert, A. Thiem; Rostock
- P091** **Treatment of Netherton syndrome with omalizumab**
V. Moosbrugger-Martinz, S. Blunder, C. Barbieux, M. Bonnet des Claustres, M. Schmuth, A. Hovnanian, R. Gruber; Innsbruck, Paris

Health Services Research

- P092** **3D human skin models of inflammatory skin diseases psoriasis and atopic dermatitis**
J. Scheurer, B. Schittek; Tuebingen
- P093** **Automatic skin area measure and classification of dermatologic diseases due artificial intelligence**
J. Koett, M. Knorr, J. Bremer, C. Gebhardt, S. Schneider, C. Mess; Hamburg

Immunology

- P094** **Overexpression of S100A9 in obesity impairs macrophage differentiation via TLR4-NFkB-signaling worsening inflammation and wound healing**
A. Saalbach, A. Ertel, S. Franz; Leipzig

SCIENTIFIC PROGRAMME

- P095** **Stress signaling and STAT1 activation characterize the keratinocytic gene expression pattern in Hidradenitis suppurativa**
V. Frings, L. Jopp, M. Srivastava, D. Presser, M. Goebeler, M. Schmidt; Wuerzburg
- P096** **The transcription factor CEBPB is a novel hub gene and multi-functional disease driver in skin inflammation**
M. Mubarak, M. Jargosch, C. Hillig, M. Menden, K. Eyerich, S. Eyerich;
Munich, Neuherberg, Stockholm
- P097**
(OP02/03) **Low numbers of cytokine transcripts drive inflammatory skin diseases by initiating amplification cascades in localized epidermal clusters**
A. Schaebitz, C. Hillig, A. Farnoud, M. Jargosch, E. Scala, A. Pilz, N. Bhalla, M. Mubarak, J. Thomas, M. Stahle, C. Schmidt-Weber, T. Biedermann, F. Theis, N. Garzorz-Stark, K. Eyerich, M. Menden, S. Eyerich; Stockholm, Munich
- P098** **Immunovirotherapy drives a convergent evolution towards interferon responsive, dedifferentiated cell states in cancer**
J. Ruotsalainen, S. Gellert, N. Shridhar, K. Zamecnikova, A. Buzzai, J. Peters, B. Kruse, S. Bonifatius, S. Gieseler-Halbach, T. van der Sluis, D. Schanze, S. Riesenberger, J. Reinhardt, M. Hoelzel, E. Gaffal, F. Rambow, J. Marine, T. Tueting;
Magdeburg, Bonn, Leuven
- P099** **The T-cell compartment of the human anal mucosa**
L. Bopp, M. Fabri; Cologne
- P100** **Suppression of cAMP formation by inhibitor-loaded polypept(o)ide micelles inhibits melanoma growth by preserving an inflammatory myeloid cell phenotype**
F. Shahneh, K. Johann, T. Bohn, M. Klein, T. Bopp, M. Barz, C. Becker;
Mainz, Leiden, Muenster
- P101**
(OP05/04) **Cytokine-induced senescence in melanoma cells is associated with a high proinflammatory secretome**
L. Homann, M. Rentschler, E. Brenner, K. Boehm, S. Weidemann, M. Roecken, T. Wieder; Tuebingen
- P102** **Laminin 332 is the predominant autoantigen in Orf-induced immunobullous disease**
O. Yilmaz, H. Pas, R. van den Bos, A. Blauvelt, W. White, J. Bouaziz, E. Zuelgaray, M. Daneshpazhooh, K. Yancey, M. Goebeler, E. Schmidt, S. Goletz; Luebeck, Groningen, Rotterdam, Portland, Greensboro, NC, Paris, Tehran, Dallas, Wuerzburg
- P103** **Ionic signals determine the pathogenicity of human Th17 cells**
J. Matthias, D. Baumjohann, M. Huber, T. Korn, C. Zielinski;
Jena, Munich, Bonn, Marburg
- P104**
(OP04/03) **Th17 cell intrinsic engagement of the NLRP3 inflammasomes promotes IL-1a production and autocrine pathogenicity**
Y. Chao, C. Zielinski; Jena
- P105** **Expression of the ectonucleotidase CD73 by regulatory T cells is important for their suppressive function in DNFB-induced contact hypersensitivity reactions**
M. Da, S. Ring, L. Chen, S. Jin, A. Enk, K. Mahnke; Heidelberg
- P106** **TH9 cells depend on cystine uptake and PPAR- signaling to prevent unchecked lipid ROS and cell death**
C. Bazzini, N. Bertschi, N. Bègré, O. Steck, F. Luther, C. Schlapbach; Bern

- P107** **Investigation of intracellular kinase activity in Pemphigus vulgaris using a human skin organ culture model**
F. Frischmann, C. Osterloh, B. Naumann, R. Ludwig, J. Hundt; Luebeck
- P108** **HCA2 signaling regulates the suppressive activity of regulatory T cells**
R. Philippsen, T. Schwarz, A. Schwarz; Kiel
- P109** **Demonstration of T cell redirection and immune activation in skin rash following tebentafusp treatment**
R. Staeger, S. Stanhope, A. Greenshields-Watson, L. Collins, E. Ramelyte, I. Kolm, R. Dummer, B. Meier-Schiesser; Zurich, Abingdon-on-Thames
- P110** **IL-13 mediated ILC-DC signalling in naive skin imprints dermal dendritic cells to T helper 2 induction**
J. Mayer, O. Lamiable, K. Hilligan, J. Chandler, S. Old, D. Eccles, J. Yang, G. Webb, R. Domingues, L. Munoz-Erazo, K. Wakelin, E. Hyde, S. Tang, S. Chappel, C. Mackay, F. Brombacher, A. Sher, R. Tussiwand, L. Connor, D. Jankovic, M. Hepworth, G. Le Gros;; Wellington, Bethesda, Manchester, Melbourne, Cape Town, Basel, Marburg
- P111** **Implementation of primary immune cells into a human skin organoid**
M. Hollstein, M. Schoen, F. Bremmer, P. Boettcher, T. Buhl; Goettingen, Duesseldorf
- P112** **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
- P113** **The G-protein coupled receptor EBI2 is involved in the pathogenesis of murine TNCB-induced contact hypersensitivity**
L. Arendholz, J. Schwingen, L. Freund, S. Moos, F. Wanke, S. Ring, S. Graef, V. Raker, M. Kneilling, S. Casola, A. Waisman, F. Kurschus; Heidelberg, Mainz, Muenster, Tuebingen, Milano
- P114** **Comparison of Janus kinase and phosphodiesterase 4 inhibition in terms of antiviral responses in vitro**
H. Hawerkamp, A. Domdey, L. Radau, P. Oláh, B. Homey, S. Meller; Duesseldorf, Pécs
- P115** **Co-localization of Ki-67 and DNA in neutrophils: Investigating the role of mitotic surfactant proteins in NETosis**
J. Holsapple, L. Erpenbeck; Muenster
- P116** **Topical application of adenosine receptor agonists to skin prevents contact hypersensitivity reactions by reducing migration and activation of skin migratory dendritic cells**
C. Silva-Vilches, A. Enk, K. Mahnke; Heidelberg
- P117** **Interaction of neutrophil extracellular traps with macrophages instigates exacerbated inflammation in wound healing**
A. Kakpenova, M. Torregrossa, J. Simon, S. Franz; Leipzig
- P118** **Poster Withdrawn!**
Soluble CD83 promotes cutaneous wound healing in an IDO- and beta²catenin-dependent manner
D. Royzman, K. Peckert-Maier, L. Stich, A. Wild, C. Ostalecki, F. Kiesewetter, S. Seyferth, G. Lee, S. Eming, C. Berking, E. Zinser, A. Steinkasserer; Erlangen, Erlangen, Cologne

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- P119** **Dysfunction in regulatory T cells leads to AIBD-related antigen-specific B cells and pathogenic anti-Col7 autoantibody causing blisters independently of immune cells**
E. Vicari, S. Haeberle, V. Bolduan, T. Ramcke, A. Vorobyev, S. Goletz, H. Iwata, R. Ludwig, E. Schmidt, A. Enk, E. Hadaschik; Heidelberg, Luebeck, Sapporo, Essen
- P120 (OP03/02)** **Neurotransmitters as modulators of immune functions in neutrophils**
A. Schmitz, M. Dinarvand, S. Kruss, L. Erpenbeck; Muenster, Goettingen, Bochum
- P121** **Effective anti-melanoma immune response by peritumoral delivery of the heat shock protein 70 (Hsp70)**
S. Kaesler, M. Shevtsov, C. Iuliano, M. Hils, T. Biedermann; Munich
- P122** **Neutrophil extracellular traps promote enhanced *S. aureus* skin colonization via TLR4/RAGE signaling and induction of oxidative stress in keratinocytes**
J. Focken, B. Schitteck; Tuebingen
- P123** **Bacterial membrane vesicles shape *S. aureus* skin colonization and induction of innate immune responses**
L. Staudenmaier, B. Schitteck; Tuebingen
- P124** **TNF is partially required for cell death triggered skin inflammation upon acute loss of cFLIP**
M. Feoktistova, R. Makarov, A. Yazdi, D. Panayotova-Dimitrova; Aachen
- P125 (OP04/01)** **Evidence for direct binding of complement components to the immunodominant NC16A domain of collagen XVII**
C. Hammers, L. Tomaschewski, M. Adem, L. Komorowski, H. Tang, A. Verschoor; Luebeck, Philadelphia
- P126** **Notable differences in the gene expression profile of different types of lichenoid skin inflammation**
N. Winkelbeiner, C. Knoch, A. Klug, R. Staeger, L. Heinzerling, R. Dummer, T. Kuendig, B. Meier-Schiesser; Zurich, Munich
- P127** **Keratinocyte-intrinsic BCL10/MALT1 activity initiates and amplifies psoriasiform skin inflammation**
Z. Kurgyis, L. Vornholz, K. Pechloff, L. Kemény, T. Wartewig, A. Muschaweckh, A. Joshi, K. Kranen, L. Hartjes, S. Moeckel, K. Steiger, E. Hameister, T. Volz, M. Mellett, L. French, T. Biedermann, T. Korn, J. Ruland; Munich, Boston, Budapest, Wuerzburg, Zurich
- P128** **Selective inhibition of tyrosine kinase 2 prevents and restores interleukin-12-induced hair follicle immune privilege collapse: a novel approach to alopecia areata therapy?**
J. Edelkamp, T. Rouille, J. Kim, L. Gao, A. Rossi, F. Jimenez, R. Paus, I. Catlett, M. Bertolini; Muenster, Princeton, Rome, Las Palmas de Gran Canaria, Miami
- P129 (OP01/02)** **PDE4 inhibition improves clinical lesions in a novel immunization-induced mouse model of mucous membrane pemphigoid**
S. Patzelt, L. Diel, M. Ranjbar, M. Pigors, S. Emtenani, K. Bieber, M. Holtsche, S. Goletz, L. Chakievska, R. Ludwig, D. Zillikens, E. Schmidt; Luebeck
- P130** **Impact of HCA2/Gpr109a receptor signaling on allergic inflammation in the skin**
S. Polkownik, K. Wulff, B. Kruse, A. Buzzai, S. Bonifatius, T. Tueting, E. Gaffal; Magdeburg

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- P131** **Antibodies to the BP180 C-terminus cause subepithelial autoimmune blistering disease through activation of the C5a/C5aR1 axis**
M. Pigors, N. Reichhelm, S. Patzelt, S. Emtenani, M. Hofrichter, M. Holtsche, J. Dworschak, G. Koehl, S. Goletz, D. Zillikens, L. Komorowski, C. Probst, J. Koehl, E. Schmidt; Luebeck
- P132** **Anti-BP230 only bullous pemphigoid (BP) constitute a subgroup with distinct serological and clinical features**
T. Ramcke, V. Bolduan, E. Vicari, O. Yilmaz, I. Bertlich, S. Goletz, S. Mindorf, J. Hoffmann, E. Schmidt, A. Enk, E. Hadaschik; Heidelberg, Luebeck, Essen
- P133** **Metabolic reprogramming coordinates dynamics of myeloid cell function in skin repair**
S. Willenborg, D. Sanin, A. Jais, X. Ding, T. Ulas, J. Nuechel, M. Popovic, T. MacVicar, T. Langer, J. Schultze, A. Roers, E. Pearce, J. Bruening, A. Trifunovic, S. Eming; Cologne, Freiburg im Breisgau, Bonn, Dresden
- P134**
(OP03/05) **Imiquimod induced psoriasis requires non-classical monocytes**
Q. Chen, S. Oehrl, S. Moos, S. Ring, L. Freund, S. Meisel, F. Kurschus, K. Schaekel; Heidelberg
- P135** **Tofacitinib suppresses IL-10/IL-10R signaling and modulates host defense responses in human macrophages**
K. Knoke, M. Fabri; Cologne
- P136** **Sphingosine 1-phosphate receptor signalling promotes hair growth and inhibits perifollicular T-cell expansion and immune privilege collapse ex vivo**
I. Piccini, M. Fehrholz, O. Egriboz, L. Ponce, A. Rossi, F. Jimenez, J. Adams, C. Crosby, M. Bertolini; Muenster, Rome, Las Palmas de Gran Canaria, San Diego
- P137** **Immunological monitoring of CD4+ T cells in patients with stage III/IV melanoma during treatment with immune checkpoint inhibitors**
T. Jakovljevicova, F. Hilke, K. Meier, G. Dobos, M. Schlaak, T. Eigentler, K. Ghoreschi, F. Solimani; Berlin
- P138**
(OP03/01) **Type 2 immunity regulates dermal white adipocyte function**
S. Satzinger, S. Willenborg, X. Ding, D. Voehringer, A. Roers, S. Eming; Cologne, Erlangen, Dresden
- P139** **Pre-metastatic and immunomodulatory conditioning of the hepatic vascular niche to prevent melanoma liver metastasis**
C. Weller, S. Wohlfeil, B. Dietsch, C. Sticht, K. Bieback, S. Goerdt, C. Géraud; Mannheim
- P140** **The role of granzyme B and granulysin expressing human DCs in the treatment response to melanoma**
I. Azzouz, T. Jakovljevicova, M. Schlaak, T. Eigentler, F. Solimani, F. Hilke, K. Ghoreschi;
Berlin
- P141** **Deciphering the presence and function of T regulatory subsets in pemphigus**
A. Mesas Fernández, F. Hilke, K. Meier, A. Polakova, C. Moebis, F. Solimani, K. Ghoreschi; Berlin, Marburg
- P142** **Diminished expression of tissue residency markers in skin lesions of patients with pemphigus vulgaris**
A. Polakova, D. Didona, J. Hinterseher, F. Wiemers, L. Zwioerek, W. Pfuetzner, M. Hertl, C. Zimmer, C. Moebis; Marburg
- P143** **Isolation of skin-derived lymphocytes from human skin and murine tissues: a**

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rapid and epitope-preserving approach

A. Polakova, C. Hudemann, F. Wiemers, L. Zwioerek, W. Pfuetzner, C. Moebs, M. Hertl, C. Zimmer; Marburg

- P144** **Testing of novel therapeutic targets for blocking acantholysis in pemphigus vulgaris by using an ex vivo porcine skin organ model**
L. Freise, C. Jacobi, J. Hundt; Luebeck
- P145** **Cellular stress due to RNA repeat expansions in myotonic dystrophy type II**
S. Roesing, N. Eberl, F. Schmidt, A. Rapp, H. Schulze, S. Meisterfeld, U. Reuner, C. Guenther; Dresden, Darmstadt
- P146** **Comparison of molecular signatures in macro- and microbiopsies of psoriasis and atopic eczema**
A. Doll, D. Uereneyer, M. Jargosch, N. Garzorz-Stark, A. Farnoud, C. Hillig, M. Menden, S. Eyerich, K. Eyerich, F. Lauffer; Munich
- P147** **Inhibition of IFN-gamma and administration of IL-4 ameliorates the induction of experimental epidermolysis bullosa acquisita**
D. Scheppan, N. Gross, J. Markton, R. Ludwig, K. Bieber; Luebeck
- P148 (OP06/02)** **Sebaceous glands are actively and differentially involved in the pathogenesis of atopic dermatitis and psoriasis as revealed by spatial transcriptomics**
P. Seiringer, C. Hillig, A. Schaebitz, S. Eyerich, M. Jargosch, A. Pilz, F. Fazekas, M. Sochorová, T. Biedermann, M. Menden, F. Gruber, K. Eyerich, D. Toeroecsik; Stockholm, Munich, Neuherberg, Debrecen, Vienna
- P149 (OP01/03)** **Single-cell and spatial architecture of human tissue granulomas reveals an aberrant immune-regulatory program underlying sarcoidosis**
A. Redl, T. Krausgruber, D. Barreca, K. Doberer, L. Unterluggauer, L. Kleissl, D. Atzmueller, C. Mayerhofer, A. Kopf, T. Weichhart, C. Bock, G. Stary; Vienna
- P150** **Single-cell sequencing defines the molecular and cellular underpinnings in spatially-resolved Non-Langerhans cell histiocytosis**
W. Bauer, M. Wielscher, L. Shaw, U. Mann, S. Saluzzo, G. Stary, W. Weninger, M. Farlik; Vienna
- P151** **Delayed antiretroviral therapy in HIV-infected individuals leads to irreversible depletion of skin- and mucosa-resident memory T cells**
S. Saluzzo, R. Vinay Pandey, L. Gail, R. Dingelmaier-Hovorka, L. Kleissl, L. Shaw, B. Reininger, D. Atzmueller, J. Strobl, V. Touzeau-Roemer, A. Beer, C. Staud, A. Rieger, M. Farlik, W. Weninger, G. Stingl, G. Stary; Vienna
- P152** **Type I Interferon activation in Dermatomyositis**
L. Mlitzko, K. Fischer, S. Meisterfeld, S. Roesing, S. Drukewitz, S. Beissert, C. Guenther; Dresden
- P153 (OP05/03)** **Desmoglein 3 extracellular domain 5 specific IgG is pathogenic in pemphigus vulgaris**
C. Hudemann, Y. Exner, R. Pollmann, K. Schneider, T. Schmidt, V. Spindler, D. Rafei-Shamsabadi, F. Voellner, J. Waschke, R. Tikkanen, M. Hertl, R. Eming; Marburg, Giessen, Munich, Freiburg
- P154** **Detection of skin-homing receptors on circulating CD4+ T lymphocytes in patients with chronic spontaneous urticaria**
S. Hermann, J. Seidel, J. Pickert, M. Rauber-Ellinghaus, Y. Xiang, S. Altrichter, W. Pfuetzner, C. Moebs; Marburg, Berlin, Linz

SCIENTIFIC PROGRAMME

- P155** **The role of the NLRP3 inflammasome in Langerhans cells for pathogenesis of vitiligo**
H. Strandt, D. Ortner-Tobider, F. Hornsteiner, C. Tripp, P. Stoitzner; Innsbruck
- P156** **T cell deficiency associated with downregulation of GPI-anchored proteins**
K. Knapp, W. Bauer, R. Pandey, M. Haimel, G. Stary; Vienna
- P157** **Impact of UVB-induced IL-33 on skin immunity**
Y. Majlesain, M. Thiem, I. Foerster, H. Weighardt; Bonn, Duesseldorf
- P158** **Disease development of experimental epidermolysis bullosa acquisita is independent of Mkl1, CD93 and Trem1 despite their elevated expression in lesional skin**
S. Draeger, S. Staender, Y. Gupta, K. Kalies, R. Ludwig, K. Bieber; Luebeck
- P159** **Adoptive transfer of regulatory T cells ameliorates autoantibody-induced inflammation in experimental epidermolysis bullosa acquisita**
N. Gross, D. Scheppan, S. Draeger, S. Khilchenko, E. Schmidt, R. Ludwig, K. Bieber; Luebeck
- P160** **Application of an inflammatory skin model with induced pluripotent stem cell-derived macrophages to study granuloma formation**
L. Kleissl, A. Redl, R. Dingelmaier-Hovorka, D. Atzmueller, G. Stary; Vienna
- P161** **Exploratory study to evaluate changes in inflammatory pattern in patients with active, moderate-to-severe hidradenitis suppurativa**
T. Ickelsheimer, I. Haferland, S. Diehl, R. Kaufmann, C. Buerger, A. Pinter, A. Koenig; Frankfurt/Main
- P162** **Pityriasis rubra pilaris: patient's characteristics and immunological mechanisms**
K. Wolk, D. Christou, G. Kokolakis, K. Ghoreschi, R. Sabat; Berlin
- P163** **Select hyperactivating NLRP3 ligands enhance the TH1- and TH17-inducing potential of human type 2 conventional dendritic cells**
L. Heger, L. Hatscher, C. Lehmann, A. Purbojo, C. Onderka, C. Liang, A. Hartmann, R. Cesnjevar, H. Bruns, O. Gross, F. Nimmerjahn, I. Ivanovic-Burmazovic, M. Kunz, D. Dudziak; Erlangen, Freiburg, Munich
- P164** **Antigen targeting of Fc receptors induces strong and functional relevant T cell responses in vivo independent of ITAM signaling but dependent on dendritic cell subsets**
C. Lehmann, A. Baranska, G. Heidkamp, L. Amon, M. Seeling, D. Soulat, A. Krug, J. Ravetch, J. Leusen, F. Nimmerjahn, D. Dudziak; Erlangen, Munich, New York, Utrecht, Marseille-Luminy
- P165 (OP01/01)** **Intratumoral interaction dynamics of CD4+ T cells with myeloid cells during tumor regression**
B. Kruse, A. Buzzai, N. Shridhar, A. Braun, T. van der Sluis, K. Knauth, J. Ruotsalainen, S. Gellert, C. Benkel, E. Gaffal, S. Kahlfuss, A. Mueller, T. Tueting; Magdeburg
- P166** **Cellular immune dysregulation after tick feeding in human skin increases susceptibility to tick-borne infections**
S. Mueller, A. Schoetta, V. Muendler, A. Gindl, L. Kleissl, A. Redl, L. Unterluggauer, D. Atzmueller, G. Stanek, R. Klasinc, M. Markowicz, H. Stockinger, J. Strobl, G. Stary; Vienna
- P167** **Unraveling the kinetics and cellular contributions in type 2 immune responses**

SCIENTIFIC PROGRAMME

in atopic dermatitis

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

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Xenobiotic metabolism is triggered in atopic dermatitis

d. Minzaghi, S. Anvidalfarei, S. Ehrle, M. Hermann, S. Dubrac; Innsbruck

P169

Impaired clearance of senescent fibroblasts from aging skin: Towards therapeutic implications

A. Koroma, K. Singh, L. Krug, M. Wlaschek, P. Maity, K. Scharffetter-Kochanek; Ulm

Infectious Diseases

P170

Natural history of cutaneous human polyomavirus infection in healthy individuals

L. Bopp, U. Wieland, M. Hellmich, A. Kreuter, H. Pfister, S. Silling; Cologne, Oberhausen

P171

Adaptation of Staphylococci to the Human Skin Environment Identified Using an ex vivo Tissue Model

M. Burian, P. Li, A. Kaschke, J. Baron, M. Hornef, C. Wolz, A. Yazdi; Aachen, Tuebingen

P172

Snapshot of the Expression Pattern of Staphylococcus epidermidis in the Nose and on the Skin of Healthy Individuals

P. Teichmann, H. Rohde, A. Yazdi, M. Burian; Aachen, Hamburg

P173

Evolution of T. indotinae mutants showing resistance to terbinafine and azoles

A. Burmester, J. Tittelbach, C. Wiegand; Jena

P174

Histologic investigation of COVID-19 associated perniois like skin lesions

S. Kuessner, P. Troitzsch, S. Emmert, R. Panzer; Rostock

Pharmacology

P175

Identification of plant extracts with anti-inflammatory and antioxidative activity as potential ingredients for cosmetic products applying a dedicated screening platform

M. Soeberdt, M. Kragl, P. Filipek, T. Jakschitz, G. Bonn, C. Abels; Neumarkt, Innsbruck

P176

Distinct metabolite profile in pemphigus vulgaris

K. Boch, A. Sharma, J. Folberth, D. Zillikens, E. Schmidt, K. Bieber, M. Schwaninger, R. Ludwig, A. Dempfle; Luebeck, Kiel

P177

Skin inflammatory models based on ex vivo skin / T cell co-culture to investigate redox-sensitive formulations for the topical delivery of rapamycin

F. Rancan, X. Guo, K. Rajes, P. Sidiropoulou, F. Zabihi, E. Ruehl, R. Haag, U. Blume-Peytavi, A. Vogt; Berlin

Photobiology

P178

Filtered 222nm UVC ? the future of skin disinfection?

I. Ivanova, T. Svilenska, B. Kurz, S. Grobecker, T. Maisch, M. Berneburg, Y. Kamenisch; Regensburg

SCIENTIFIC PROGRAMME

- P179** **NOD-2 and TLR-5 gene polymorphisms are associated with polymorphous light eruption**
B. Kurz, S. Arndt, P. Unger, I. Ivanova, M. Berneburg, S. Karrer; Regensburg
- P180** **The Anti-Fibrotic Effect of Cold Atmospheric Plasma on Localized Scleroderma in vitro and in vivo**
S. Arndt, P. Unger, A. Bosserhoff, M. Berneburg, S. Karrer; Regensburg, Erlangen
- P181** **Langerhans cells are essential regulators of the early immune response to UVB-induced DNA damage**
D. Ortner, C. Tripp, H. Strandt, S. Spoeck, A. Seretis, A. Prokopi, L. Bellmann, F. Hornsteiner, M. Schmuth, P. Stoitzner; Innsbruck
- P182** **Investigations on the relevance of the interactions between the transcription factors AhR and HIF-1alpha in the context of UV-inducible cutaneous signaling response**
J. Schindler, S. Fassbender, M. Majora, M. Pollet, H. Weighardt, J. Krutmann; Duesseldorf, Bonn
- P183** **Two in one filter foil: opportunities for protection and therapy**
I. Ivanova, K. Lang, T. Maisch, M. Berneburg, Y. Kamenisch; Regensburg, Empfingen
- P184** **Reducing the burden of Atopic Dermatitis: Combination therapy of Curcumin and light reduces inflammation in-vitro**
M. Poeschl, M. Schultz, R. Kaufmann, S. Kippenberger, N. Zoeller; Frankfurt/Main
- P185** **Impact of the photodynamic treatment with curcumin and visible light irradiation is wavelength specific**
N. Zoeller, S. Hoffmann, D. Oezistanbullu, R. Kaufmann, S. Kippenberger; Frankfurt/Main

Pruritus

- P186** **The aryl hydrocarbon receptor in chronic pruritus**
H. Wiegmann, G. Schmitz, L. Wessendorf, L. Renkhold, C. Zeidler, M. Pereira, K. Agelopoulos, S. Staender; Muenster
- P187** **In vitro modeling of scratching in chronic pruritus**
K. Agelopoulos, G. Schmitz, L. Renkhold, H. Wiegmann, C. Zeidler, M. Pereira, S. Staender; Muenster
- P188** **Pruritic lesional skin in chronic nodular prurigo exhibits specific DNA methylation signatures**
K. Agelopoulos, H. Wiegmann, L. Renkhold, C. Zeidler, M. Pereira, S. Staender; Muenster
- P189** **Chronic pruritus patients reveal distinct expression signatures in chronically scratched skin**
L. Renkhold, M. Pereira, H. Wiegmann, C. Zeidler, G. Schmitz, T. Tekath, J. Varghese, M. Dugas, S. Staender, K. Agelopoulos; Muenster, Heidelberg

Tumor Biology

- P190** **Crucial role of reactive oxygen species (ROS) for the proapoptotic effects of indirubin derivatives in cutaneous SCC cells**
J. Zhu, P. Langer, C. Ulrich, J. Eberle; Berlin, Changchun, Jilin Province, Rostock
- P191** **Targeting Cutaneous T-cell Lymphoma Cells by Ingenol Mebutate (PEP005) Correlates with PKC-delta Activation, ROS Induction as well as Downregulation of XIAP and c-FLIP**
U. Sumarni, R. Reidel, J. Eberle; Berlin
- P192** **ERK inhibition by Sch-772984 in combination with the Mcl-1 inhibitor S63845 results in induction of apoptosis and loss of cell viability in cutaneous melanoma cell lines**
Z. Peng, A. Dogan, Z. Sarif, J. Eberle; Berlin, Hengyang, Hunan, Witten
- P193** **Poster withdrawn**
Interleukin-17 amplifies durable clinical benefit of dual CTLA-4 and PD-1 checkpoint control over anti-PD-1 monotherapy in melanoma
R. Varaljai, L. Zimmer, B. Shannan, L. Albrecht, J. Brase, J. Dick, D. Engel, S. Horn, S. Ugurel, W. Sondermann, E. Livingstone, A. Sucker, A. Paschen, F. Zhao, J. Placke, J. Klose, W. Fendler, I. Helfrich, D. Schadendorf, A. Roesch; Essen, Basel, Leipzig
- P194** **Persister state-directed transitioning and vulnerability in melanoma**
H. Chauvisté, B. Shannan, S. Daignault, R. Ju, D. Picard, S. Egetemaier, R. Varaljai, F. Kaschani, A. Sechi, O. Keminer, S. Stehbins, Q. Liu, X. Yin, K. Jeyakumar, F. Vogel, C. Krepler, V. Rebecca, L. Kubat, S. Lueong, J. Forster, S. Horn, M. Remke, M. Eh; Essen, Brisbane, Duesseldorf, Aachen, Hamburg, Philadelphia, Dortmund, Heidelberg, Murcia
- P195** **Genes involved in keratinocyte-melanoma cell interaction**
J. Kirchberg, S. Spaenig, J. Simon, M. Kunz; Leipzig
- P196 (OP04/04)** **Spatial Transcriptomics of primary melanoma lesions**
M. Rade, D. Loeffler, F. Grosse, A. Scholz, C. Blumert, K. Reiche, M. Kunz; Leipzig
- P197** **Individualized treatment of melanoma cell cultures based on the mutational landscapes**
F. Karras, M. Stiller, M. Rosolowski, H. Jahnke, M. Kunz; Leipzig
- P198** **GARP as a potential shared uniform marker for melanoma and glioblastoma stem-like cells**
N. Zimmer, E. Trzeciak, P. Licht, B. Sprang, V. Mailaender, E. Kim, A. Tuettenberg; Mainz
- P199** **Inhibition of the mTOR inhibitory protein sirtuin 1 leads to faster tumor growth under PD1-based immune checkpoint blockade**
J. Placke, J. Dick, C. Soun, P. Spangenberg, B. Shannan, R. Varaljai, C. Krisp, H. Schlueter, A. Urbanek, F. von Eggeling, D. Schadendorf, D. Engel, A. Roesch; Essen, Hamburg, Jena
- P200** **Establishment and Characterization of Primary Keratinocyte Cultures from Tumor and Healthy Tissues**
M. Ulrich, S. Rode, J. Tietze, S. Emmert, L. Boeckmann; Rostock
- P201** **Ionic signals promote anti-tumor T cell cytotoxicity**
D. Soll, C. Zielinski; Jena, Munich

SCIENTIFIC PROGRAMME

- P202** **Enhanced Expression of p21 Promotes Sensitivity of Melanoma Cells Towards Targeted Therapies**
L. Froehlich, E. Makino, T. Sinnberg, B. Schitteck; Tuebingen
- P203** **Resistance to BRAF inhibitors: EZH2 and its downstream targets as potential therapeutic options in melanoma**
A. Uebel, K. Gebhardt, C. Sunderkoetter, D. Gerloff; Halle (Saale)
- P204** **Dissecting the IFN-mediated transcriptomic alterations in Merkel cell carcinoma cell lines using Nanopore sequencing**
T. Sauerer, C. Lischer, C. Berking, J. Vera-Gonzalez, J. Doerrie; Erlangen
- P205** **Evaluation of the G Protein-Coupled Estrogen Receptor as a Potential New Therapy Target in Cutaneous T-Cell Lymphoma**
D. Oezistanbullu, G. Reichenbach, M. Doll, J. Kleemann, N. Zoeller, R. Kaufmann, S. Kippenberger, M. Meissner; Frankfurt/Main
- P206** **CRISPR/Cas9-based multiplex gene editing to determine the impact of heparan sulfate on the melanoma microenvironment**
M. Zulal, Y. Wang, T. Obser, C. Mess, K. Opitz, A. Bauer, S. Schneider, C. Gorzelanny; Hamburg
- P207** **Regulatory mechanisms of extracellular vesicle delivered miR-92b-3p on generation of carcinoma-associated fibroblasts in melanoma**
S. Kewitz-Hempel, L. Mueller, C. Sunderkoetter, D. Gerloff; Halle (Saale)
- P208** **Deficiency of Lyve1 protects against hepatic melanoma metastasis**
(OP06/04) A. Jauch, S. Wohlfeil, B. Dietsch, C. Weller, M. Kittel, A. Stojanovic, A. Cerwenka, S. Goerd, C. Géraud; Mannheim
- P209** **nAngiopoietin-like 4 inhibits metastasis formation**
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