



**47<sup>th</sup> Annual Meeting  
of the  
Arbeitsgemeinschaft  
Dermatologische Forschung**

in collaboration with the  
Deutsche Dermatologische Gesellschaft (DDG)

March 11-14, 2020  
Berlin, Germany

By January 22, 2020

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

**Meeting Venue**

**Technical University Berlin, Straße des 17. Juni 135, 10623 Berlin, Hall H0104  
<https://www.tu-berlin.de/menue/home/>**

**Prior to the meeting contact the ADF office  
Tel: +49 (0)30 24 62 53 16; Fax: +49 (0)30 24 62 53 17**

**During the meeting  
Conference phone: +49 (0) 172 58 85 241**

**How to get there:** The TU Campus Berlin is situated in the City Centre West of Berlin.

**Arrival by Public Transport**

**By rail**

At Central station take a regional train or S-Bahn (any line in direction of Charlottenburg, Westkreuz, Potsdam or Spandau) to Zoologischer Garten. The main campus is only a five minute walk from Zoologischer Garten railway station. You can also take a bus (M45, 245 oder X9) or the U-Bahn (Line 2) to Ernst Reuter Platz (or you can stop a taxi and take a fixed rate short ride from Zoologischer Garten).

<b>Underground:</b>	Ernst-Reuter-Platz, Line 2 (red Line)
<b>Bus:</b>	Ernst-Reuter-Platz, Lines M45, 245 and X9 Steinplatz, Lines M45 and 245
<b>S-Bahn:</b>	Zoologischer Garten, Lines S5, S7, S75 Tiergarten, Lines S5, S7, S75

BVG Journey Planner: <https://fahrinfo.bvg.de/Fahrinfo/bin/query.bin/en?ld=0.1&>

**Arrival by Airplane (Berlin has 2 Airports)**

**Tegel (TXL):**

The airport is very close to the Main Campus. Take the airport shuttle bus (X9) to Ernst-Reuter Platz (15 minutes) or take a taxi (10 minutes).

**Schönefeld (SFX):**

This is across the city, so a taxi is expensive unless you can share the costs.

At S-Bahnhof Flughafen Schönefeld take a regional train (RE7, destination Dessau) or S-Bahn (Line 9, destination Pankow, change at Ostkreuz to any train in direction of Zoologischer Garten). Leave the train at Zoologischer Garten. From there you can walk down Hardenbergstrasse (five minutes), take a bus (M45, 245, or X9), or take the U-Bahn (Line 2, destination Ruhleben) one station to Ernst Reuter Platz. (Or you can stop a taxi and take a fixed rate short ride).

Take a 171 or X7 bus to the underground station Rudow and from there take the Line 7 (destination Rathaus Spandau) to Bismarckstrasse, then change onto the Line 2 (destination Pankow) and travel two stops to Ernst Reuter Platz.

Both options take about an hour.

**Arrival by Car**

See <https://www.google.de/maps/place/Hauptgeb%C3%A4ude+der+Technischen+Universit%C3%A4t+Berlin,+Str.+des+17.+Juni+135,+10623+Berlin/@52.5120905,13.3250622,17z/data=!3m1!4b1!4m5!3m4!1s0x47a851033d816579:0x79e0bd7c664dab318m2!3d52.5120905!4d13.3272509?hl=de>

## MEETING ORGANISATION

### Local Organisers

**Kamran Ghoreschi, Marcus Maurer, Martin Metz, Robert Sabat, Kerstin Wolk**  
Klinik für Dermatologie, Venerologie und Allergologie, Charité – Universitätsmedizin Berlin  
Luisenstraße 2, 10117 Berlin

### General Organisation, Registration, Hotel, Travel, 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

### Hotel Reservations

A list of hotels with special rates for the ADF Annual Meeting can be found on the ADF homepage <http://www.adf-online.de>

**Registration Fee**      Non-members:      € 90.00  
                                 Members:              € 60.00 (Charged as membership fee!)

Students are free of charge upon demonstration of appropriate documents.

### Opening Hours of the Conference Bureau

Thursday, March 12, 2020	09:00-19:00
Friday, March 13, 2020	08:00-18:30
Saturday, March 14, 2020	08:30-13:00

### Oral Presentations(OP)

Duration: 7 min.  
**NEW! Discussion: 5 min.**

### Projection

Talks will be presented by video projection only. Please bring your powerpoint presentation on a memory stick.  
Only presentations suitable for PC can be used (no Mac).  
All presentations have to be turned in at least 30 minutes prior to each session.

### Posters (P)

Important:  
***All Oral Presentations will also have to be presented as posters!***  
Size of poster boards: width 90 cm, height 135 cm.  
Mounting material will be provided.

**No DFG session in 2020!**

## MEETING ORGANISATION

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

### **Wednesday, March 11, 2020:**

Dermatological Endocrinology 12:00-19:00, Room 2035

*Chairs: E. M. Peters; J. Naetlitz*

Atopic Dermatitis + Skin Barrier 14:00-18:00, Room 2036

*Chairs: L. Eckhart; S. Weidinger*

Experimental Dermatocology 14:00-18:00, Room 1036

*Chair: T. Tueting*

Psoriasis 14:00-19:00, Room 1035

*Chair: R. Sabat*

### **Thursday, March 12, 2020:**

Cutaneous Lymphoma 09:00-13:00, Room 2037

*Chair: E. Guenova*

Experimental Allergology + Mast cells  
and Basophils 09:00-13:00, Room 1036

*Chair: A. Kerstan*

Autoimmun blistering skin diseases 09:00-13:00, Room 2036

*Chair: M. Sticherling*

Translational Dermatological Genetics 09:00-13:00, Room 3012

*Chairs: C. Has; V. Oji*

Pruritus Research 09:00-13:00, Room 3002

*Chair: H. Staender*

Psoriasis 09:30-10:30, Room 1035

*Chair: R. Sabat*

Epidemiology & Health Service Research 10:00-13:00, Room 2035

*Chair: C. Apfelbacher*

Acne inversa 10:30-13:00, Room 1035

*Chairs: K. Wolk, F. Bechara*

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](http://www.adf-online.de)).

## About the 46. Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung

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*Dear Colleagues and Friends,*

We would like to warmly welcome you to the 47<sup>th</sup> Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung. This year, we have received 266 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, two 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.

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

We are looking forward to this year's workshop, which is devoted to „*Tissue-resident immune cells in chronic inflammation*“. 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 (Duesseldorf) and Wolfgang Weninger (Wien), respectively.

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

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

*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**

P. Brunner, Vienna	M. Hoelzel, Bonn	E. Schmidt, Luebeck
S. Eyerich, Munich	C. Kosnopfel, Tuebingen	T. Sinnberg, Tuebingen
M. Farlik, Vienna	N. Lohmann, Leipzig	A. Thiem, Rostock
N. Glodde, Bonn	E. Neubert, Goettingen	L. von Meyenn, Bern
C. Gorzelanny, Mannheim	E. Rodriguez, Kiel	V. Wally, Salzburg
C. Guenther, Dresden	C. Schlapbach, Bern	N. Yogev, Cologne

### **Poster walks and poster committee**

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

Adaptive Immunity (A. Elbe-Buerger)	Infectious Diseases (N. Yogev)
Allergy (C. Moebis)	Innate Immunity (B. Meier-Schiesser)
Autoimmunity (C. Guenther)	Mast cells and Basophils (K. Hartmann)
Cellular Biology (L. Eckhart)	Psoriasis (R. Moessner)
Dermato-Endocrinology (R. Paus)	Translational Research (K. Schaekel)
Epidemiology & Health Service Research (W. Ludwig-Peitsch)	Tumor Biology (B. Schilling)
Genetics (V. Oji)	Tumor Immunology (N. Glodde)

We thank *AbbVie Deutschland GmbH & Co.KG, Almirall Hermal GmbH, Janssen-Cilag GmbH, La Roche-Posay Laboratoire Dermatologique, Lilly Deutschland GmbH, Novartis Pharma GmbH, Sanofi-Aventis Deutschland GmbH and Shire Deutschland GmbH jetzt Teil der TAKEDA Group* for their kind support.

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

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

**Thursday, March 12, 2020**

**12:30-14:00 Poster mounting and registration**

**13:00-14:00 Lunch**

**14:00-14:10 Welcome Address**  
**K. Ghoreschi, E. Gaffal**

**14:10-15:10 Oral Presentations I**  
**Chairs: K. Ghoreschi, K. Wolk**

**OP01/01 14:10 (P141)** **Acquired immunotherapy resistance of melanoma arising through loss of interferon responsiveness can be overcome with salvage virotherapy**

J. Ruotsalainen, J. Peters, N. Shridhar, K. Zamecnikova, S. Gellert, B. Kruse, S. Bonifatius, S. Gieseler-Halbach, E. Gaffal, T. Tueting; Magdeburg

**OP01/02 14:22 (P016)** **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

**OP01/03 14:34 (P004)** **In vivo non - invasive staining - free visualization of mast cells in human skin using two-photon fluorescence lifetime imaging**  
M. Darvin, M. Kroeger, J. Scheffel, V. Nikolaev, E. Shirshin, F. Siebenhaar, J. Schleusener, M. Maurer, J. Lademann; Berlin, Tomsk, Moscow

**OP01/04 14:46 (P018)** **Tumor cell-derived Angiopoietin-2 promotes melanoma metastasis**  
A. Abdul Pari, M. Singal, C. Bauer, C. Mogler, B. Schieb, N. Gengenbacher, L. Reynolds, D. Terhardt, C. Géraud, J. Utikal, M. Thomas, S. Goerdts, K. Hodivala-Dilke, H. Augustin, M. Felcht; Mannheim, Heidelberg, Munich, London, Penzberg

**OP01/05 14:58 (P027)** **MSCs escape energy crisis by rerouting metabolism towards  $\beta$ -oxidation implications for trauma and diabetic wound healing**  
A. Basu, K. Singh, P. Maity, H. Geiger, M. Huber-Lang, K. Scharffetter-Kochanek; Ulm

**15:10-15:20 ADF Award I**  
(Short presentation of awardee)  
**Paul Langerhans Award\***  
M. Hertl, R. Eming

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

**Thursday, March 12, 2020**

**15:20-15:40 Quo Vadis Lecture I**

A. Viros, Manchester:

***How ageing shapes the course of melanoma***

Introduction: C. Gebhardt

**15:40-15:50 Experimental Dermatology – News from the Editor**

R. Paus, Manchester

**15:50-16:10 *Coffee break***

**16:10-18:10 WORKSHOP**

***Tissue-resident immune cells in chronic Inflammation***

Organisation/  
Moderation:

**K. Ghoreschi, M. Maurer, K. Wolk**

16:10

T. S. Kupper, Boston

**TRM: The Good, the Bad, and the Unexpected**

16:40

I. Prinz, Hannover

**$\gamma\delta$  T cells: commander of tissue inflammation**

17:10

A. Diefenbach, Berlin

**Innate lymphoid cells: guardians of tissue homeostasis at body surfaces**

17:40

K. Kabashima, Kyoto

**Mast cells as master cells of skin immunity and chronic inflammation**

**18:10-21:00 POSTER SESSION AND NETWORKING**

With snacks and drinks



**Friday, March 15, 2019**

**08:30-09:30**

**Oral Presentations II**

**Chairs: M. I. Fleischer, C. Géraud**

**OP02/01 08:30  
(P006)**

**Type I diabetes protects from development of contact hypersensitivity**

T. Schmidt, N. Roehrig, V. Raker, K. Steinbrink; Mainz, Muenster

**OP02/02 08:42  
(P175)**

**Complex interactions between mitochondrial genome and microbiota modulate immune response in autoimmune skin inflammation**

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

**OP02/03 08:54  
(P215)**

**Immune checkpoint blockade needs senescence-inducing Cdkn2a 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

**OP02/04 09:06  
(P160)**

**Differential role of reactive oxygen and nitrogen species in contact hypersensitivity reaction**

R. Mehling, J. Schwenck, I. Gonzalez Menendez, L. Quintanilla de Fend, B. Fehrenbacher, M. Schaller, M. Roecken, B. Pichler, M. Kneilling; Tuebingen

**OP02/05 09:18  
(P171)**

**ERAP1 controls the HLA-C\*06:02-restricted autoimmune response against melanocytes in psoriasis**

A. Arakawa, E. Reeves, S. Vollmer, M. He, S. Vural, Y. Arakawa, E. James, J. Prinz; Munich, Southampton

**09:30-10:05**

**POSTER SESSION (all even poster numbers)**

**10:05-10:40**

**POSTER SESSION (all odd poster numbers)**

**10:45-11:25**

**GUENTER GOERZ MEMORIAL LECTURE**

J. Krutmann, Duesseldorf

***Skin and Environment***

Introduction: E. Gaffal, Magdeburg

**Friday, March 13, 2020**

**11:25-12:25**

**Oral Presentations III**

**Chairs: C. Zielinski, W. Hoetzenecker**

**OP03/01 11:25  
(P168)**

**Immune complexes induce a patrolling response in non-classical monocytes**

S. Preuss, H. Zhang, J. Young, J. Spatz, U. Engel, S. Oehrl, F. Olaru, K. Schaekel; Heidelberg

**OP03/02 11:37  
(P049)**

**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

**OP03/03 11:49  
(P182)**

**Modulation of pro-inflammatory macrophage functions by sulfated hyaluronan reduces inflammatory processes in skin**

S. Meyer, P. Zager, E. Wandel, M. Ordieres, S. Rother, A. Berg, S. Moeller, M. Schnabelrauch, J. Simon, V. Hintze, S. Franz; Leipzig, Dresden, Jena

**OP03/04 12:01  
(P127)**

**Modelling resistance in melanoma immunotherapy using CRISPR/Cas9**

M. Effern, N. Glodde, J. Liebing, M. Braun, E. Bawden, D. Hinze, D. van den Boorn-Konijnenberg, P. Aymans, J. Landsberg, T. Bald, T. Tueting, T. Gebhardt, M. Hoelzel; Bonn, Melbourne, Herston, Magdeburg

**OP03/05 12:13  
(P115)**

**Morpholino-mediated knockdown of -secretase-subunit Nicastrin causes hypopigmentation due to dysfunctional melanoblast migration, differentiation and distribution**

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

**12:25-13:25**

**Poster Walks**

We thank *AbbVie Deutschland GmbH & Co.KG, Almirall Hermal GmbH, Janssen-Cilag GmbH, La Roche-Posay Laboratoire Dermatologique, Lilly Deutschland GmbH, Novartis Pharma GmbH, Sanofi-Aventis Deutschland GmbH and Shire Deutschland GmbH jetzt Teil der TAKEDA Group* for their kind support.

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Translational Research (K. Schaekel)

Tumor Biology (B. Schilling)

Tumor Immunology (N. Glodde)

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

**Friday, March 13, 2020**

**13:25-14:25 Lunchbreak**

**14:25-15:25 Oral Presentations IV**  
**Chairs: M. Goebeler, G. Stary**

**OP04/01 14:25 (P162)** **Topical application of A2-type Adenosine receptor agonists to skin prevents contact hypersensitivity (CHS)-reactions in mice by affecting skin dendritic cells**

C. Silva-Vilches, S. Ring, Y. Inaba, M. Da, A. Enk, K. Mahnke; Heidelberg

**OP04/02 14:37 (P010)** **Modulation of allergic contact dermatitis via unfolded protein response**

F. Gendrisch, S. Martin, P. Esser; Freiburg

**OP04/03 14:49 (P236)** **Platelet-derived von Willebrand factor fibers mediate cerebral hypercoagulation and brain metastases in malignant melanoma**

J. Robador, F. Mayer, M. Feinauer, F. Winkler, V. Umansky, C. Gorzelanny, S. Schneider, A. Bauer; Hamburg, Mannheim, Heidelberg

**OP04/04 15:01 (P196)** **Changes in the cutaneous immune landscape facilitate tick-borne pathogen transmission**

J. Strobl, S. Berent, A. Redl, V. Muendler, L. Kleissl, A. Schoetta, H. Stockinger, G. Stanek, M. Markowicz, G. Stary; Vienna

**OP04/05 15:13 (P128)** **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

**15:25-15:45 Quo Vadis Lecture II**

C. Marr, München

***Artificial Intelligence for Biomedical Data Analysis***

Introduction: M. Fabri

**15:45-16:00 ADF Awards II**  
(Short presentations of awardee)

**Egon Macher Award\***

S. Eming, R. Eming

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

**Friday, March 13, 2020**

**16:00-16:30**      **Coffee break**  
**+ Best of ADF Winter School 2020**

**16:30-17:30**      **GUEST LECTURE**  
Wolfgang Weninger, Vienna  
***A new macrophage precursor in adult murine bone marrow***  
Introduction/discussion: G. Stary

**17:30-18:00**      **ADF Awards III**

**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*

**18:00-19:00**      **ADF General Assembly**

(for agenda please see ADF-Homepage, [www.adf-online.de](http://www.adf-online.de))

**19:30-?**            **Skin Research Forum**

PURO Sky Lounge Berlin, Tauentzienstraße 11, 10789 Berlin

**Saturday, March 14, 2020****09:00-10:00****Oral presentations V****Chairs: K. Loser, S. Weidinger****OP05/01 09:00  
(P099)****Neutrophil extracellular traps (NETs): a pathogenetic mechanism in acne inversa?**

L. Erpenbeck, K. Wolk, E. Neubert, T. Brembach, F. Rahimi, C. Nikolaou, R. Klischka, E. Witte-Haendel, H. Volk, M. Schoen, K. Ghoreschi, R. Sabat; Goettingen, Berlin

**OP05/02 09:12  
(P032)****mTORC1 activity in psoriatic lesions is mediated by aberrant regulation through the tuberous sclerosis complex (TSC)**

A. Ferreri, V. Lang, S. Diehl, R. Kaufmann, C. Buerger; Frankfurt (Main)

**OP05/03 09:24  
(P094)****High-throughput screening of FDA-approved drugs identifies novel immunomodulatory agents for immune-mediated skin diseases**

S. Ghorbanalipoor, K. Matsumoto, L. Heimberg, M. Krause, W. Veldkamp, M. Magens, J. Zanken, G. Vidarsson, R. Visser, S. Kuenzel, A. Recke, U. Samavedam, Y. Gupta, D. Zillikens, K. Bieber, R. Ludwig; Luebeck, Nijmegen, Amsterdam, Ploen

**OP05/04 09:36  
(P135)****Molecular analysis of primary melanoma T cells identifies patients at risk for metastatic recurrence**

W. Pruessmann, J. Rytlewski, J. Wilmott, M. Mimh, G. Atrill, B. Dyring-Andersen, P. Fields, Q. Zhan, A. Colebatch, P. Ferguson, J. Thompson, K. Kallenbach, E. Yusko, R. Clark, H. Robbins, R. Scolyer, T. Kupper; Boston, Seattle, Sydney, Roskilde

**OP05/05 09:48  
(P239)****MITF-mediated changes of tumour architecture, tensile stress and in extracellular matrix (ECM) control intratumour heterogeneity in melanoma**

L. Spoerri, C. Tonnessen-Murray, K. Beaumont, D. Hill, R. Jurek, G. Gunasingh, G. Vanwalleghem, S. Daignault, M. Fane, H. Schaidler, A. Smith, S. Stehens, W. Weninger, E. Scott, B. Gabrielli, N. Haass; Woolloongabba, Newtown, Sydney

**10:00-10:20****Quo Vadis Lecture III**

C. Schlapbach, Bern

***Novel T helper cell subsets: Back to the future?***

Introduction: T. Buhl

**10:20-11:05****POSTER SESSION (all even poster numbers)****11:05-11:50****POSTER SESSION (all odd poster numbers)**

**Saturday, March 14, 2020**

**11:50-12:50**

**Oral Presentations VI**

**Chairs: M. Metz, M. Schmuth**

**OP06/01 11:50  
(P129)**

**C3 independent C5 activation pathway in pathogenesis of pemphigoid disease**

M. Kamaguchi, S. Tofern, P. Freire, L. Schmidt-Jimenez, K. Bieber, E. Schmidt, R. Ludwig, A. Verschoor, K. Izumi; Luebeck, Sapporo

**OP06/02 12:02  
(P249)**

**mTOR activity as a novel regulator of human hair follicle biology**

J. Chéret, T. Suzuki, G. Epstein-Kuka, C. Demetriades, R. Paus; Miami, Muenster, Cologne, Manchester

**OP06/03 12:14  
(P116)**

**Single cell RNA sequencing of dermal tissues of mitochondrial mutant mice with altered immune cell metabolism and differential susceptibility to experimental autoimmune skin diseases**

F. Ott, P. Schilf, A. Tietje, M. Hirose, A. Kuenstner, S. Ibrahim, H. Busch, A. Faehnrich; Luebeck

**OP06/04 12:26  
(P225)**

**Melanoma derived exosomal miR-125b-5p educates tumor associated macrophages (TAMs) by targeting lysosomal acid lipase A (LIPA)**

D. Gerloff, J. Luetzkendorf, R. Moritz, T. Wersig, K. Maeder, L. Mueller, C. Sunderkoetter; Halle (Saale)

**OP06/05 12:38  
(P123)**

**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. Lепенies, T. Werfel; Hannover

**12:50-13:20**

**POSTER AWARDS\***

**Chairs: C. Guenther, K. Schaekel**

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

**13:20**

**Acknowledgements, Farewell, End of Meeting**

E. Gaffal

**POSTER SESSIONS**

<b>All posters:</b>	<b>Thursday,</b>	<b>March 12,</b>	<b>18:10-21:00 Uhr</b>
<b>Even poster numbers:</b>	<b>Friday,</b>	<b>March 13,</b>	<b>09:30-10:05 Uhr</b>
	<b>Saturday,</b>	<b>March 14,</b>	<b>10:20-11:05 Uhr</b>
<b>Odd poster numbers:</b>	<b>Friday,</b>	<b>March 13,</b>	<b>10:05-10:40 Uhr</b>
	<b>Saturday,</b>	<b>March 14,</b>	<b>11:05-11:50 Uhr</b>

Allergy

- P001**      **Cytokine production is elicited via MRGPRX2 in human skin mast cells yet with lower efficiency than upon FcεRI-aggregation - dominance of ERK1/2**  
Z. Wang, K. Franke, T. Zuberbier, M. Babina; Berlin
- P002**      **The IgE of autoallergic patients with chronic spontaneous urticaria cross-reacts with allergens**  
Y. Xiang, J. Scheffel, M. Maurer, S. Altrichter; Berlin
- P003**      **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 Ayala, M. Maurer, J. Scheffel; Berlin
- P004**      **In vivo non - invasive staining - free visualization of mast cells in human skin using two-photon fluorescence lifetime imaging**  
(OP01/03) M. Darvin, M. Kroeger, J. Scheffel, V. Nikolaev, E. Shirshin, F. Siebenhaar, J. Schleusener, M. Maurer, J. Lademann; Berlin, Tomsk, Moscow
- P005**      **Breaking Down Barriers: Understanding Anaerobic Bacteria in the Skin**  
J. Afghani, M. Reiger, C. Traidl-Hoffmann; Augsburg, Munich, Davos
- P006**      **Type I diabetes protects from development of contact hypersensitivity**  
(OP02/01) T. Schmidt, N. Roehrig, V. Raker, K. Steinbrink; Mainz, Mainz, Muenster
- P007**      **Acetylcholine-induced whealing in cholinergic urticaria and its implications**  
S. Altrichter, Y. Wang, P. Schumacher, O. Alraboni, M. Maurer; Berlin, Beijing
- P008**      **EBI2 guides pathogenic T cells in the murine allergic contact hypersensitivity**  
J. Schwingen, L. Freund, F. Wanke, M. Kaplan, S. Graef, V. Rakert, F. Kurschus; Heidelberg, Mainz
- P009**      **Characterisation of the skin microbiome in patients with atopic dermatitis in relation to demographic variables**  
L. Rauer, M. Bhattacharyya, P. Brunner, J. Krueger, E. Guttman-Yassky, M. Reiger, C. Traidl-Hoffmann, A. Neumann; Augsburg, Munich, New York, Davos
- P010**      **Modulation of allergic contact dermatitis via unfolded protein response**  
(OP04/02) F. Gendrisch, S. Martin, P. Esser; Freiburg
- P011**      **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

## SCIENTIFIC PROGRAMME

- P012**      **Utility of basophil activation test to diagnose sensitisation in patients with anaphylaxis to mulberries**  
D. Jamiolkowski, Z. Manjaly Thomas, S. Link, I. Heijnen, E. Steveling, F. Bellutti Enders, A. Bircher, K. Scherer Hofmeier, K. Hartmann; Basel
- P013**      **Relationship of nasal chemokines, infiltrating immune cells, and symptoms under natural pollen exposure**  
M. Goekkaya, S. Hilgers, V. Schwierzeck, S. Knoch, K. Thoelken, F. Kolek, M. Plaza, V. Leier-Wirtz, G. Hammel, A. Damialis, L. Geisdorf, C. Traidl-Hoffmann, S. Gilles; Augsburg, Davos
- P014**      **PPAR-alpha agonist WY-14,643 suppresses the IFN-gamma induced PDL-1 and PDL-2 expression in endothelial cells**  
M. Doll, J. Kleemann, M. Jaeger, S. Kippenberger, N. Zoeller, R. Kaufmann, M. Meissner; Frankfurt (Main)
- P015**      **A Novel Redox Sensitive Role of JunB in Tissue Homeostasis and 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
- P016**      **Insulin Resistant Fibroblasts Impair Angiogenesis in Diabetic Conditions – Implications for Novel Treatment Strategies**  
(OP01/02)  
O. Storz, A. Koroma, K. Singh, M. Wlaschek, K. Scharffetter-Kochanek, P. Maity; Ulm
- P017**      **Human induced pluripotent stem cell-derived mast cells: a novel approach for studying mast cell-driven disorders**  
Y. Luo, J. Scheffel, V. Vallone, S. Frischbutter, H. Stachelscheid, M. Maurer, F. Siebenhaar; Berlin
- P018**      **Tumor cell-derived Angiopoietin-2 promotes melanoma metastasis**  
(OP01/04)  
A. Abdul Pari, M. Singal, C. Bauer, C. Mogler, B. Schieb, N. Gengenbacher, L. Reynolds, D. Terhardt, C. Géraud, J. Utikal, M. Thomas, S. Goerdts, K. Hodivala-Dilke, H. Augustin, M. Felcht; Mannheim, Heidelberg, Munich, London, Penzberg
- P019**      **Ceramide synthase 4 dependent epidermal lipid metabolism is a key regulator of adult epidermal barrier homeostasis**  
F. Peters, F. Tellkamp, S. Brodesser, E. Wachsmuth, B. Tosetti, U. Karow, W. Bloch, O. Utermohlen, M. Kroenke, C. Niessen; Cologne
- P020**      **3D spheroid models show importance of accurate cell volume regulation by LRRc8 volume-regulated anion channels for keratinocyte differentiation**  
E. von Molitor, J. Trothe, V. Lang, M. Hafner, R. Rudolf, C. Buerger, T. Ertongur-Fauth; Zwingenberg, Frankfurt (Main), Mannheim, Heidelberg
- P021**      **TFIIEβ mutation in trichothiodystrophy affects rRNA synthesis and Performance**  
T. Phan, F. Khalid, P. Maity, K. Scharffetter-Kochanek, S. Iben; Ulm
- P022**      **The Adaptive Response ABCB5+ Mesenchymal Stem Cells from Old and Young Healthy Individuals upon Exposure to the Pathogen Signal LPS**  
P. Haas, S. Munir, K. Singh, P. Maity, A. Basu, D. Crisan, C. Ganss, M. Wlaschek, M. Kluth, K. Scharffetter-Kochanek; Ulm, Heidelberg
- P023**      **Immortalized keratinocytes as a model for epidermal differentiation**  
M. Jahn, D. Nayir, V. Lang, R. Kaufmann, R. Back, T. Ertongur-Fauth, C. Buerger; Frankfurt (Main), Zwingenberg



## SCIENTIFIC PROGRAMME

- P024**      **Effects of smoking on the cutaneous antioxidative system analyzed by spectroscopic and molecular biological methods**  
S. Lohan, K. Buehring, A. Lauer, A. Friedrich, J. Lademann, R. Sabat, K. Wolk, M. Meinke; Berlin
- P025**      **A DNA-repair independent pathomechanism in trichothiodystrophy**  
F. Khalid, T. Phan, P. Maity, M. Alupej, K. Scharffetter-Kochanek, S. Iben; Ulm
- P026**      **Methods in human hair research: Optimized work flow for isolating high-quality RNA from different epithelial and mesenchymal compartments of the human hair follicle by laser capture microdissection**  
L. Timperi, S. Altendorf, N. Botchkareva, M. Bertolini, R. Paus, Y. Uchida; Muenster, Miami & Manchester
- P027 (OP01/05)**      **MSCs Escape Energy Crisis by Rerouting Metabolism Towards beta-Oxidation Implications for Trauma and Diabetic Wound Healing**  
A. Basu, K. Singh, P. Maity, H. Geiger, M. Huber-Lang, K. Scharffetter-Kochanek; Ulm
- P028**      **Determination of biocompatibility and antimicrobial efficacy of a new ceramic micro-plasma source**  
S. Fink, P. Warncke, M. Fischer, M. Stubenrauch, K. Horn, S. Spange, A. Pfuch, J. Mueller, D. Fischer, U. Hipler, C. Wiegand; Jena, Ilmenau
- P029**      **Three-dimensional human skin models tattooed with black ink - cytotoxic and inflammatory effects**  
K. Reddersen, U. Hipler, S. Goetze, C. Wiegand; Jena
- P030**      **Loss of proteostasis in the premature aging diseases Cockayne syndrome and trichothiodystrophy**  
F. Khalid, T. Phan, M. Alupej, P. Maity, K. Scharffetter-Kochanek, S. Iben; Ulm
- P031**      **Pre-clinical trial platform for assessing the effect of cosmeceutical agents on epidermal melanogenesis in human skin organ culture**  
M. Lessen, R. Alqasem, J. Lehmann, M. Bertolini, R. Paus, Y. Uchida; Muenster, Florida
- P032 (OP05/02)**      **mTORC1 activity in psoriatic lesions is mediated by aberrant regulation through the tuberous sclerosis complex (TSC)**  
A. Ferreri, V. Lang, S. Diehl, R. Kaufmann, C. Buerger; Frankfurt (Main)
- P033**      **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, T. Wieder, M. Roecken; Tuebingen, Paris
- P034**      **Generation of the pTRE-fzd7+K5tTA mouse model for studies on keratinocyte stem cell homeostasis**  
E. Makrantonaki, K. Singh, S. Schatz, A. Brown, I. Krikki, S. Munir, A. Basu, P. Maity, M. Alupej, M. Wlaschek, M. Dahlhoff, K. Scharffetter-Kochanek; Ulm, Wildeshausen, Munich
- P035**      **Understanding Impaired Clearance of Senescent Fibroblasts From Aging Skin Towards Therapeutical Implications**  
A. Koroma, K. Singh, M. Wlaschek, P. Maity, K. Scharffetter-Kochanek; Ulm
- P036**      **HDAC2 is Involved in the Regulation of Brn3a 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, C. Berking; Munich, Erlangen

## SCIENTIFIC PROGRAMME

- P037 Targeted Disruption of the Hornerin Gene in Mice Causes Skin Barrier Dysfunction**  
R. Zheng, Y. Wu, D. Li, J. Sheng, T. Xie, Z. Wu, U. Meyer-Hoffert; Hangzhou, Kiel
- P038 Induction of pro-inflammatory cytokine responses by *Leptotrichia* spp. and their culture supernatants in human gingival fibroblasts**  
T. Close, D. Langfeldt, F. Birkenfeldt, P. Morrison, I. Suhrkamp, U. Mrowietz; Kiel
- P039 Short chain dehydrogenase/reductase family 16C member 5 (SDR16C5) is a keratinocyte differentiation-dependent regulator of cutaneous retinoid metabolism**  
M. Lindtner, J. Lachner, S. Abbas Zadeh, M. Buchberger, B. Golabi, M. Mildner, E. Tschachler, L. Eckhart; Vienna
- P040 PAD4- mediated pathways contributes to dermal fibrosis via fibroblast activation.**  
S. Muecklich, J. Haub, K. Steinbrink, S. Reyda, W. Ruf, N. Roehrig, C. Braun, V. Raker; Mainz, Muenster
- P041 Unravelling novel functions for mTORC2 in epidermal barrier maintenance**  
X. Ding, S. Willenborg, W. Bloch, S. Wickstroem, P. Wagle, S. Brodesser, A. Roers, A. Jais, J. Bruening, M. Hall, M. Rueegg, S. Eming; Cologne, Helsinki, Dresden, Basel
- P042 Local and transient inhibition of p21 expression ameliorates age-related delayed wound healing**  
D. Jiang, J. de Vries, J. Muschhammer, S. Schatz, H. Ye, T. Hein, M. Fidan, V. Romanov, Y. Rinkevich, K. Scharffetter-Kochanek; Ulm, Munich, Jena
- P043 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
- P044 Activation of STAT3 through the mTOR and MAPK pathway contributes to the psoriatic inflammation**  
L. Victoria, A. Dmitriev, S. Diehl, R. Kaufmann, C. Buerger; Frankfurt (Main)
- P045 Disulfiram efficiently induces cell death in NF1 loss-of-function melanoma cells through a massive induction of reactive oxygen species**  
F. Meraz-Torres, A. Biesecker, O. Riess, M. Schaller, C. Garbe, H. Niessner, T. Sinnberg; Tuebingen
- P046 Phosphorylation of TGF $\beta$ 2 regulates its activity**  
M. Sawant, J. Nuechel, M. Plomann, T. Krieg, B. Eckes; Cologne
- P047 Mitochondrial DNA depletion prevents inflammation and fibrotic potential in dermal fibroblasts**  
J. Naetlitz, J. Boix, S. Eming, R. Wiesner; Cologne
- P048 A "hairy" perspective on IL-9: First indications that the Th2 cytokine IL-9 regulates cycling and immune privilege of human hair follicles**  
T. Suzuki, J. Chéret, F. Scala, G. Epstein-Kuka, R. Paus, C. Schlapbach; Miami, Muenster, Manchester, Bern
- P049 Mast cells instruct keratinocytes to produce TSLP - relevance of the tryptase/PAR-2 axis (OP03/02)**  
D. Redhu, K. Franke, A. Illerhaus, K. Hartmann, M. Babina, M. Worm; Berlin, Cologne, Basel

## SCIENTIFIC PROGRAMME

- P050** **Aptamers against CCL2 and CXCL12 act as powerful tools against dermal fibrosis.**  
J. Haub, N. Roehrig, D. Eulberg, V. Raker; Mainz, Berlin
- P051** **Imiquimod-induced psoriasis-like dermatitis in mice depends on IL-17 signaling of keratinocytes**  
S. Moos, A. Mohebiany, A. Waisman, F. Kurschus; Mainz, Heidelberg
- P052** **IL-17E (IL-25) and IL-17A affect differentially the functions of human keratinocytes**  
J. Borowczyk, C. Buerger, N. Tadjrischi, J. Drukala, D. Wnuk, W. Boehncke, N. Brembilla; Geneva, Frankfurt (Main), Krakow
- P053** **Targeting mast-cell plasticity re-shapes the tumor microenvironment of melanoma**  
C. Iuliano, S. Kaesler, T. Biedermann; Munich
- P054** **Observer-independent assessment of psoriasis affected area using machine learning**  
N. Meienberger, F. Anzengruber, L. Amruthalingam, R. Christen, T. Koller, J. Maul, M. Pouly, V. Djamei, A. Navarini; Zurich, Basel, Lucerne
- P055** **Mast cells and tryptase as biomarkers for mycosis fungoides**  
D. Terhorst-Molawi, K. Lohse, V. Puhl, T. Hawro, M. Maurer, S. Altrichter; Berlin
- P056** **Eosinophil Count, Serum CCL17/18/26 and IgE Levels in Atopic Dermatitis: Upadacitinib Phase 2 Study Analysis**  
L. Beck, J. Silverberg, S. Weidinger, K. Grebe, F. Hong, J. Parmentier, H. Teixeira, E. Guttman-Yassky; Rochester, Chicago, Kiel, Worcester, North Chicago, New York
- P057** **Upadacitinib treatment of atopic dermatitis patients leads to reductions in epidermal hyperplasia and cellular infiltrates**  
T. Song, A. Pavel, X. Peng, E. Del Duca, Y. Estrada, K. Grebe, J. Parmentier, H. Teixeira, L. Beck, E. Guttman-Yassky; New York, Worcester, North Chicago, Rochester
- P058** **GSK3-beta activation is a key driver of resistance to RAF inhibition in BRAF mutant melanoma cells**  
D. Crisan, K. Scharffetter-Kochanek, F. Zhao, A. Paschen, S. Schatz, H. Hainzl, A. Baican, M. Crisan, A. Basu, A. Sindrilaru; Ulm, Essen, Cluj-Napoca
- P059** **High and Durable Clearance through 52 Weeks of Risankizumab Treatment in Patients with Moderate-to-Severe Plaque Psoriasis**  
M. Gooderham, M. Lebwohl, K. Gordon, T. Wu, H. Photowala, H. Bachelez; Peterborough, Waterloo, Ontario, New York, Wisconsin, Illinois, Paris
- P060** **Assessment of DNA Damage caused by Treatment with Cold Atmospheric Pressure Plasma and Small Molecules of Melanoma**  
M. Semmler, M. Schaefer, A. Waldner, H. Rebl, T. Fischer, S. Bekeschus, S. Emmert, L. Boeckmann; Rostock, Greifswald
- P061** **Assessment of Cold Atmospheric Pressure Plasma as Innovative Therapy for Treatment of Radiation Dermatitis using a Mouse Model**  
T. Bernhardt, T. Siebert, K. Manda, G. Hildebrandt, S. Bekeschus, B. Vollmar, S. Emmert, L. Boeckmann; Rostock, Greifswald
- P062** **Growth-Inhibition of Anaerobic Bacteria by Dimethylfumarate**  
S. Raecke, I. Suhrkamp, R. Podschun, U. Mrowietz; Kiel

- P063**      **The MRGPRX2 agonist cortistatin degranulates human skin mast cells in vitro and in vivo and is highly expressed in the skin of patients with prurigo, atopic dermatitis or chronic spontaneous urticaria**  
P. Kolkhir, Q. Jiao, J. He, J. Scheffel, M. Maurer, S. Frischbutter;  
Berlin, Moscow, Suzhou, Luzhou
- P064**      **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, L. Boeckmann, S. Emmert; Rostock, Greifswald
- P065**      **Assessment of the quality of life of patients with systemic sclerosis – quantitative analysis of sociodemographic, clinical and psychological influencing factors**  
S. Heyne, E. Haufe, S. Beisert, C. Guenther; Dresden
- P066**      **First systematic analysis of cutaneous microbiome in Darier disease reveals *S. aureus* dominance without *Corynebacteria* decline**  
Y. Amar, D. Boehmer, R. Silva, S. Niedermeier, B. Foesel, S. Kublik, M. Schloter, T. Biedermann, M. Koeberle; Munich, Neuherberg
- P067**      **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, Lisbon, Berlin
- P068**      **Clinical validation of a prognostic 11-gene expression profiling score in prospectively collected FFPE tissue of patients with AJCC v8 stage II cutaneous melanomas**  
H. Niessner, T. Sinnberg, T. Amaral, H. Suelberg, T. Eigentler, C. Garbe;  
Tuebingen, Lisbon, Cologne
- P069**      **Adjuvant melanoma therapy with Nivolumab and Pembrolizumab - a real-world experience**  
C. Posch, K. Schumann; Munich, Vienna
- P070**      **Exploration of coagulation and endothelial activation as novel biomarkers of response to immune checkpoint therapies in metastatic malignant melanoma patients**  
J. Stadler, L. Keller, A. Bauer, C. Mess, W. Haberstroh, M. Sementsov, K. Pantel, S. Schneider, C. Gebhardt; Hamburg
- P071**      **Differential wound healing times in acne inversa after surgery of the axillary and inguinal region**  
V. Frings, B. Bauer, R. Schuster, M. Goebeler, D. Presser, A. Kerstan; Wuerzburg
- P072**      **Anti-neonatal Fc receptor (FcRn) antibody treatment ameliorates autoimmune skin blistering disease in mice**  
A. Kasprick, M. Hofrichter, B. Smith, P. Ward, K. Bieber, A. Shock, R. Ludwig, E. Schmidt; Luebeck, Slough, Swallowfield
- P073**      **Neural networks for automated skin morphology segmentation**  
C. Mess, M. Schmerder, S. Schneider, V. Huck; Hamburg

- P074**      **Challenging a paradigm: Skin sensitivity to sodium lauryl sulfate is independent of atopic diathesis**  
A. Heetfeld, T. Schill, S. Schroeder, S. Forkel, V. Mahler, W. Pfuetzner, M. Schoen, J. Geier, T. Buhl; Goettingen, Langen, Marburg, Erlangen
- P075**      **Activation of the alpha7 nicotinic acetylcholine receptor ameliorates skin fibrosis and reduces TGF-beta1-induced collagen synthesis in human dermal fibroblasts by modulating JunB**  
A. Stegemann, K. Dreissigacker, L. Summa, D. Flis, J. Distler, W. Ziolkowski, K. Steinbrink, M. Boehm; Muenster, Erlangen, Danzig
- P076**      **Fast oxidation of alpha-melanocyte stimulating hormone and derived peptides under laboratory conditions - a cause of irreproducible biological results?**  
M. Bayer, A. Stegemann, M. Boehm, S. Koenig; Muenster
- P077**      **Alopecia areata and vitamin D status: a meta-analysis**  
A. Maier, J. Schoepe, S. Wagenpfeil, R. Saternus, T. Vogt, J. Reichrath; Homburg
- P078**      **Vitamin D receptor gene polymorphisms and melanoma risk: systematic review and meta-analysis**  
M. Birke, J. Schoepe, S. Wagenpfeil, R. Saternus, T. Vogt, J. Reichrath; Homburg
- P079**      **Prospective investigation of serum concentration of vitamin D metabolites following UVB narrow band phototherapy in healthy volunteers**  
R. Saternus, S. Reichrath, D. Mawlood, T. Vogt, J. Reichrath; Homburg
- P080**      **Cross-talk of vitamin D and P53 signaling pathways in a cell culture model to analyze non-melanoma skin cancer**  
M. Preiss, R. Saternus, A. Stark, T. Vogt, J. Reichrath; Homburg
- P081**      **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
- P082**      **Smoking and obesity as risk factors of hidradenitis suppurativa: an immunohistochemical analysis of selected proteins**  
K. Kaleta, A. Hossini, G. Nikolakis, D. Almansouri, J. Knolle, C. Zouboulis; Dessau, Krakow
- P083**      **Innate immunity and epithelial cell differentiation are altered in hidradenitis suppurativa**  
C. Zouboulis, A. Nogueira da Costa, E. Makrantonaki, X. Hou, D. Almansouri, J. Dudley, H. Edwards, B. Readhead, O. Balthasar, G. Jemec, N. Bonitsis, G. Nikolakis, D. Trebing, K. Zouboulis, A. Hossini; Dessau, Slough, New York, Roskilde, Zurich
- P084**      **Apocrine glands are bystanders in hidradenitis suppurativa with a gender-specific involvement pattern**  
C. Zouboulis, S. Fimmel, K. Zouboulis; Dessau, Zurich
- P085**      **Adalimumab dose intensification in recalcitrant hidradenitis suppurativa**  
C. Zouboulis, H. Hansen, R. Caposiena Caro, G. Damiani, I. Delorme, J. Pascual, Z. Reguiai, A. Trigoni, E. Vilarrasa, F. Alfageme Roldán; Dessau, Rome, Milan, Drummondville, QC, Alicante, Reims, Thessaloniki, Barcelona, Madrid
- P086**      **Pediatric hidradenitis suppurativa in Germany**  
C. Zouboulis; Dessau

## SCIENTIFIC PROGRAMME

- P087** **Skin-specific overexpression of LRIG3 in mice results in seborrhea and alopecia**  
C. Hoesl, R. Wolf, M. Schneider, M. Dahlhoff; Munich, Marburg
- P088** **Role of insulin growth factor-1 in skin homeostasis explored with 3D-SeboSkin.**  
G. Nikolakis, A. Hossini, C. Zouboulis; Dessau
- P089** **Sunscreens: are they safe?**  
T. Felix-Fernandes, R. Saternus, J. Reichrath; Homburg
- P090** **The difference between neural networks and pathologists in the diagnosis of basal cell carcinomas**  
S. Kimeswenger, G. Klambauer, G. Lang, M. Hofmarcher, P. Tschandl, C. Sinz, G. Petronio, R. Silye, H. Kittler, W. Hoetzenecker; Linz, Vienna
- P091** **Dapsone and IVIG are therapeutically effective in a novel mouse model of mucous membrane pemphigoid**  
S. Murthy, S. Tofern, L. Knebel, P. Schilf, T. Sezin, F. Fagiani, S. Mousavi, D. Zillikens, E. Schmidt, C. Sadik; Luebeck
- P092** **Cellular expression of complement receptors C5aR1 and C5aR2 in pemphigoid diseases**  
R. Stahlkopf, S. Emtenani, D. Zillikens, C. Karsten, E. Schmidt; Luebeck, Luebeck
- P093** **Multispectral NIR absorption imaging for the histological diagnostics of skin cancer**  
A. Spreinat, G. Selvaggio, S. Kruss, L. Erpenbeck; Goettingen
- P094 (OP05/03)** **High-throughput screening of FDA-approved drugs identifies novel immunomodulatory agents for immune-mediated skin diseases**  
S. Ghorbanalipoor, K. Matsumoto, L. Heimberg, M. Krause, W. Veldkamp, M. Magens, J. Zanken, G. Vidarsson, R. Visser, S. Kuenzel, A. Recke, U. Samavedam, Y. Gupta, D. Zillikens, K. Bieber, R. Ludwig; Luebeck, Nijmegen, Amsterdam, Ploen
- P095** **Membrane attack complex formation correlates with neutrophil extracellular trap mediated blood vessel occlusion in small vessel vasculitis**  
A. Burmeister, L. Xiaobo, S. Vidal-y-Sy, V. Huck, S. Schneider, C. Gorzelanny; Hamburg, Mannheim
- P096** **Soluble FcεRI is a potential biomarker for poor therapeutic response to omalizumab in patients with chronic spontaneous urticaria**  
S. Monino-Romero, P. Kolkhir, Z. Szepfalusi, M. Maurer, S. Altrichter; Berlin, Vienna
- P097** **Molecular dynamics of psoriatic keratinocyte-subtypes at the methylome and transcriptome level**  
K. Witte, K. Juerchott, D. Christou, J. Hecht, G. Salinas, U. Krueger, O. Klein, G. Kokolakis, E. Witte-Haendel, R. Moessner, H. Volk, K. Wolk, R. Sabat; Berlin, Barcelona, Goettingen
- P098** **Profiling of Acne inversa reveals disease-specific but also psoriasis-related pathogenetic pathways, which may explain the increased prevalence of concomitant psoriasis among these 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, Duisburg-Essen, Biberach

## SCIENTIFIC PROGRAMME

- P099 (OP05/01) Neutrophil extracellular traps (NETs): a pathogenetic mechanism in acne inversa?**  
L. Erpenbeck, K. Wolk, E. Neubert, T. Brembach, F. Rahimi, C. Nikolaou, R. Klischka, E. Witte-Haendel, H. Volk, M. Schoen, K. Ghoreschi, R. Sabat; Goettingen, Berlin
- P100 The role of skin tissue resident memory T cells in a human model of imiquimod-induced inflammatory reactions**  
A. Schaebitz, J. Thomas, A. Pilz, M. Jargosch, T. Biedermann, C. Schmidt-Weber, S. Eyerich, K. Eyerich, N. Garzorz-Stark; Munich, Stockholm
- P101 The development of tanning bed use over time: Findings from the nationwide National Cancer Aid Monitoring**  
K. Diehl, T. Goerig, S. Schneider; Mannheim
- P102 Use of sunscreen in Germany - Results of the National Cancer Aid Monitoring (NCAM)**  
T. Goerig, S. Schneider, K. Diehl; Mannheim
- P103 Atopic dermatitis serum protein signatures under systemic therapy show differential effects of dupilumab and ciclosporin: a cohort study of the TREATgermany Biorepository and Molecular Profiling Core**  
L. Moebus, K. Vierlinger, I. Harder, E. Rodriguez, D. Stoelzl, A. Kleinheinz, S. Abraham, A. Heratizadeh, E. Weisshaar, M. Augustin, C. Handrick, B. Schwarz, E. Haufe, T. Werfel, J. Schmitt, S. Weidinger; Kiel, Vienna, Buxtehude, Dresden, Hannover, Heidelberg, Hamburg, Berlin, Langenau
- P104 Atopic dermatitis skin transcriptome is characterised by elevated type-2 and IL17-related cytokines: a cohort study of the TREATgermany Biorepository and Molecular Profiling Core**  
L. Moebus, I. Harder, E. Rodriguez, D. Stoelzl, A. Kleinheinz, S. Abraham, A. Heratizadeh, C. Handrick, E. Haufe, T. Werfel, J. Schmitt, S. Weidinger; Kiel, Buxtehude, Dresden, Hannover, Berlin
- P105 Incidence of different cancer types in dermatomyositis, polymyositis and dermatopolymyositis: results of a registry analysis**  
M. Zidane; Berlin
- P106 Which antipsoriatic induction treatment sequence is the most time-effective? Economic modelling with time instead of monetary cost**  
M. Zidane; Berlin
- P107 Incidence and mortality of melanoma proportional to the catchment area of dermatologists in Bavaria**  
K. Drexler, H. Drexler, C. Apfelbacher, S. Haferkamp; Regensburg, Erlangen, Magdeburg
- P108 Psoriasis and the avoidance of sexual contact**  
M. Schielein, L. Tizek, B. Schuster, T. Biedermann, A. Zink; Munich
- P109 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
- P110 Cold urticaria associated with a novel Phospholipase-C-Gamma-2 (PLCG2) mutation**  
H. Bonnekoh, N. Mahnke, J. Scheffel, H. Wai, D. Baralle, S. Ennis, M. Maurer, K. Krause; Berlin, Southampton

## SCIENTIFIC PROGRAMME

- P111**      **Comparative transcriptomics of organotypic skin models defines components of the core molecular machinery of epidermal cornification**  
J. Lachner, S. Derdak, F. Ehrlich, T. Wagner, M. Mildner, E. Tschachler, L. Eckhart; Vienna
- P112**      **Rare frameshift mutation in SERPINA3 contributes to generalized pustular psoriasis**  
U. Hueffmeier, H. Sticht, D. Wilsmann-Theis, K. Wolf, S. Loehr, S. Haskamp, B. Frey, M. Hahn, A. Ekici, S. Uebe, C. Thiel, A. Reis, K. Kingo, S. Koks, R. Moessner, J. Prinz, V. Oji, P. Schulz, L. Munoz, A. Kremer, J. Wenzel, S. Frey; Erlangen, Bonn, Tartu, Goettingen, Munich, Muenster, Bad Bentheim
- P113**      **Linear porokeratosis: genotype - phenotype correlations and pathogenesis-based treatment**  
M. Saleva-Stateva, A. Zimmer, S. Jaegle, J. Fischer, C. Has; Sofia, Freiburg
- P114**      **Next-generation sequencing reveals significant differences of advanced melanoma**  
F. Hilke, A. Gschwind, G. Demidov, S. Ossowski, O. Riess, I. Bonzheim, T. Sinnberg, H. Niessner, T. Amaral, C. Garbe, C. Schroeder, A. Forschner; Tuebingen, Berlin, Lisbon
- P115**  
**(OP03/05)**      **Morpholino-mediated knockdown of -secretase-subunit Nicastrin causes hypopigmentation due to dysfunctional melanoblast migration, differentiation and distribution**  
M. Hermasch, H. Janning, V. Schnabel, W. Muschalek, P. Roshan, F. Ramos-Gomes, A. Bennemann, F. Alves, B. Odermatt, D. Ralser, R. Betz, M. Schoen, R. Dosch, J. Frank; Goettingen, Bonn
- P116**  
**(OP06/03)**      **Singe cell RNA sequencing of dermal tissues of mitochondrial mutant mice with altered immune cell metabolism and differential susceptibility to experimental autoimmune skin diseases**  
F. Ott, P. Schilf, A. Tietje, M. Hirose, A. Kuenstner, S. Ibrahim, H. Busch, A. Faehnrich; Luebeck
- P117**      **Content validity of quality-of-life candidate instruments for atopic eczema in infants, children and adults: a group discussion study**  
M. Gabes, C. Apfelbacher; Regensburg, Magdeburg
- P118**      **Development and validation of a short-form of the Childhood Atopic Dermatitis Impact Scale, the CADIS-SF15**  
M. Gabes, S. Chamlin, J. Lai, D. Cella, A. Mancini, C. Apfelbacher; Regensburg, Magdeburg, Chicago
- P119**      **Management of antithrombotic agents in dermatologic surgery in Germany before and after publication of the corresponding German evidence-based guideline: a third-wave survey**  
M. Gaskins, C. Dressler, R. Werner, C. Loeser, A. Nast; Berlin, Ludwigshafen
- P120**      **Patient preferences for treatment of advanced melanoma - impact of comorbidities**  
J. Weilandt, K. Diehl, M. Schaarschmidt, F. Kiecker, B. Sasama, M. Pronk, J. Ohletz, A. Koennecke, V. Mueller, J. Utikal, U. Hillen, W. Harth, W. Peitsch; Berlin, Mannheim, Heidelberg
- P121**      **Willingness to use teledermatology in the rural population of Bavaria, Southern Germany**  
B. Schuster, S. Ziehfrend, L. Tizek, J. Krause, T. Biedermann, A. Zink; Munich



## SCIENTIFIC PROGRAMME

- P122**      **Population-based interest in skin diseases in rural and urban areas of Bavaria: A Google search term analysis**  
S. Ziehfreund, B. Schuster, T. Biedermann, A. Zink; Munich
- P123**  
**(OP06/05)**      **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
- P124**      **Innate immune activation as cofactor in pemphigus disease manifestation?**  
R. Eichkorn, S. Reinknecht, N. Smatlik, M. Hertl, J. Baron, J. Waschke, A. Yazdi; Tuebingen, Marburg, Aachen, Munich
- P125**      **ASC specks formation in primary human keratinocytes**  
N. Smatlik, S. Reinknecht, R. Eichkorn, M. Burian, A. Yazdi; Tuebingen, Aachen
- P126**      **Modelling melanoma control by tissue-resident memory T cells using CRISPR/Cas9**  
M. Effern, E. Bawden, T. Wagner, K. Hochheiser, N. McBain, D. van den Boorn-Konijnenberg, M. Hoelzel, T. Gebhardt; Bonn, Melbourne, Nedlands
- P127**  
**(OP03/04)**      **Modelling resistance in melanoma immunotherapy using CRISPR/Cas9**  
M. Effern, N. Glodde, J. Liebing, M. Braun, E. Bawden, D. Hinze, D. van den Boorn-Konijnenberg, P. Aymans, J. Landsberg, T. Bald, T. Tueting, T. Gebhardt, M. Hoelzel; Bonn, Melbourne, Herston, Magdeburg
- P128**  
**(OP04/05)**      **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
- P129**  
**(OP06/01)**      **C3 independent C5 activation pathway in pathogenesis of pemphigoid disease**  
M. Kamaguchi, S. Tofern, P. Freire, L. Schmidt-Jimenez, K. Bieber, E. Schmidt, R. Ludwig, A. Verschoor, K. Izumi; Luebeck, Sapporo
- P130**      **Basiliximab: New insights into molecular mechanism of action and the effects on human induced regulatory T cells**  
P. Rostan, E. Graulich, K. Steinbrink; Mainz, Muenster
- P131**      **IL-36 drives skin toxicity induced by EGFR/MEK inhibition and Cutibacterium acnes**  
T. Satoh, M. Mellett, B. Meier, G. Genini, A. Otsuka, E. Contassot, L. French; Zurich, Kyoto, Munich
- P132**      **Anti-laminin 332 IgG mediates signal transducing events and functional alterations in cultured keratinocytes that are partly prevented by phosphodiesterase-4 inhibition**  
S. Tofern, A. Schoelzel, S. Goletz, D. Zillikens, E. Schmidt; Luebeck
- P133**      **Low IgA and IgE levels in patients with chronic spontaneous urticaria are associated with autoimmune phenomena**  
M. Sauer, J. Scheffel, S. Frischbutter, F. Siebenhaar, S. Altrichter, M. Maurer, M. Metz, K. Krause; Berlin
- P134**      **Mast cells are crucial for proper dendritic cell activation and type I IFN production during viral infections**  
Y. Arestova, F. Siebenhaar, M. Maurer, M. Munoz; Berlin

## SCIENTIFIC PROGRAMME

- P135 (OP05/04) Molecular analysis of primary melanoma T cells identifies patients at risk for metastatic recurrence**  
W. Pruessmann, J. Rytlewski, J. Wilmott, M. Mimh, G. Atrill, B. Dyring-Andersen, P. Fields, Q. Zhan, A. Colebatch, P. Ferguson, J. Thompson, K. Kallenbach, E. Yusko, R. Clark, H. Robbins, R. Scolyer, T. Kupper; Boston, Seattle, Sydney, Roskilde
- P136 Induction of regulatory T cells in L. major-infected BALB/c mice does not require Langerin positive dendritic cells.**  
D. Lukas, K. Dietze-Schwonberg, K. Kautz-Neu, B. Lorenz, B. Clausen, E. von Stebut; Cologne, Mainz
- P137 STAT3 inhibitor-loaded nanocapsules and -particles decrease IL-10 and STAT3 mediated tolerance mechanisms**  
F. Krebs, S. Jiang, M. Frey, M. Li, K. Landfester, K. Steinbrink; Mainz, Muenster
- P138 Functional Role of MyD88-signaling in Skin Mast Cells**  
Y. Majlesain, F. Opitz, I. Foerster, H. Weighardt; Bonn, Duesseldorf
- P139 Myeloid Derived Suppressor Cells in Pemphigus Vulgaris**  
D. Neri, M. Carevic, J. Brueck, J. Holstein, I. Schaefer, F. Solimani, K. Ghoreschi; Berlin, Tuebingen
- P140 B cells sustain inflammation and predict response to immune checkpoint blockade in human melanoma**  
J. Griss, W. Bauer, C. Wagner, M. Simon, M. Chen, K. Grabmeier-Pfistershammer, P. Steinberger, S. Wagner; Vienna
- P141 (OP01/01) Acquired immunotherapy resistance of melanoma arising through loss of interferon responsiveness can be overcome with salvage virotherapy**  
J. Ruotsalainen, J. Peters, N. Shridhar, K. Zamecnikova, S. Gellert, B. Kruse, S. Bonifatius, S. Gieseler-Halbach, E. Gaffal, T. Tueting; Magdeburg
- P142 Sustained High Efficacy and a Favorable Safety Profile in Hard-To-Treat Areas in Patients with Moderate-to-Severe Psoriasis: Five Years Results from a Phase 3 trial**  
K. Papp, S. Gerdes, H. ElMaraghy, K. See, M. McKean-Matthews, A. Garrelts, C. Leonardi, S. Eppendorfer; Waterloo, Kiel, Indianapolis, IN, Raleigh, St Louis, Bad Homburg
- P143 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, IN, Bad Homburg
- P144 A deficiency in receptors for short chain fatty acids impairs the activity of regulatory T cells**  
R. Philippsen, T. Schwarz, A. Schwarz; Kiel
- P145 Post-transcriptional regulation of GARP expression in melanoma and glioblastoma by miR-142-3p and its relevance for radiation resistance.**  
N. Zimmer, E. Trzeciak, A. Tuettenberg; Mainz
- P146 Comparison of two tools for the serological diagnosis of anti-laminin 332 mucous membrane pemphigoid**  
S. Goletz, F. Giurdanella, F. Huebner, M. Nijenhuis, B. Horvath, G. Diercks, T. Hashimoto, D. Zillikens, E. Schmidt, H. Pas; Luebeck, Groningen, Kurume
- P147 Topical treatment with 1,8-dihydroxy-9anthrone induces IL-6 and ROS and recruits myeloid cells with immunosuppressive features**  
M. Carevic-Neri; Berlin

## SCIENTIFIC PROGRAMME

- P148**      **Resiquimod reveals great efficacy in inflammatory cytokine induction and T cell recruitment**  
B. Meier-Schiesser, D. Jankovic, C. Surber, G. Hofbauer, E. Contassot, L. French; Zurich, Munich, Basel
- P149**      **Induction of Toll-like Receptor Expression in Primary Human Keratinocytes by Cytokines**  
A. Ljulkina, L. Boeckmann, S. Emmert, E. Proksch, R. Panzer; Kiel, Rostock
- P150**      **Transcriptome analysis of pemphigus skin shows an unexpected IL-17A-dominated immune signature**  
J. Holstein, F. Solimani, C. Baum, K. Meier, R. Pollmann, D. Didona, T. Tekath, M. Dugas, N. Casadei, J. Matthes, I. Schaefer, R. Eichkorn, A. Yazdi, R. Eming, M. Hertl, W. Pfuetzner, C. Moebs, K. Ghoreschi; Berlin, Marburg, Tuebingen, Muenster
- P151**      **In-vivo immunomodulatory effects after microinvasive skin treatment**  
T. Doerr, K. Baumann, P. Skov, A. Vogt, T. Zuberbier, M. Hofmann; Berlin, Copenhagen, Odense
- P152**      **Expression of antimicrobial peptides in lesional keratinocytes of patients with hidradenitis suppurativa/acne inversa**  
F. Bechara, T. Meyer, S. Hessam, M. Skrygan, T. Gambichler; Bochum
- P153**      **Endoplasmatic reticulum stress due to RNA repeat expansions in myotonic dystrophy type II**  
S. Roesing, F. Schmidt, A. Rapp, H. Schulze, N. Zimmermann, P. Binkenstein, S. Meisterfeld, U. Reuner, C. Guenther; Dresden, Darmstadt
- P154**      **Ex vivo confocal laser scanning microscopy for bullous pemphigoid diagnostics II: indirect immunofluorescence with two different substrates**  
I. Bagci, E. Erguen, R. Aoki, S. Krammer, G. Vladimirova, M. Sárdy, T. Ruzicka, L. French, D. Hartmann; Munich, Istanbul, Budapest
- P155**      **The role of regulatory T cells in pemphigoid diseases**  
N. Gross, D. Scheppan, S. Khilchenko, E. Schmidt, R. Ludwig, K. Bieber; Luebeck
- P156**      **Impact of light on the formation of neutrophils extracellular traps (NETs)**  
E. Neubert, K. Bach, J. Busse, I. Bogeski, M. Schoen, S. Kruss, L. Erpenbeck; Goettingen
- P157**      **Individual treatment heterogeneity in pemphigus patients - a retrospective analysis**  
R. Scarpone, W. Francuzik, M. Worm, G. Heine; Berlin, Kiel
- P158**      **Oral anticoagulant rivaroxaban protects from PAR2-mediated cutaneous inflammation in mice**  
M. Fleischer, N. Roehrig, T. Schmidt, D. Becker, S. Ritz, J. Haub, V. Raker, H. Stege, M. Bros, S. Grabbe, S. Reyda, W. Ruf, K. Steinbrink; Mainz, Muenster
- P159**      **Detection of autoantigen specific CD4+ T cells in pemphigus vulgaris patients by CD154 expression**  
A. Ismagambetova, R. Eming, C. Hudemann; Marburg
- P160**  
**(OP02/04)**      **Differential role of reactive oxygen and nitrogen species in contact hypersensitivity reaction**  
R. Mehling, J. Schwenck, I. Gonzalez Menendez, L. Quintanilla de Fend, B. Fehrenbacher, M. Schaller, M. Roecken, B. Pichler, M. Kneilling; Tuebingen

## SCIENTIFIC PROGRAMME

- P161**      **Induction of desmoglein 3-specific T cell tolerance in a mouse model of pemphigus vulgaris**  
C. Hudemann, M. Hertl, S. Fleischer, R. Digigow, R. Eming; Marburg, Hamburg
- P162 (OP04/01)**      **Topical application of A2-type Adenosine receptor agonists to skin prevents contact hypersensitivity (CHS)-reactions in mice by affecting skin dendritic cells**  
C. Silva-Vilches, S. Ring, Y. Inaba, M. Da, A. Enk, K. Mahnke; Heidelberg
- P163**      **Novel vaccination strategies for CD4+ T cell immunotherapy of melanoma.**  
N. Shridhar, J. Ruotsalainen, B. Kruse, C. Witte, T. Van Der Sluis, S. Bonifatius, M. Rogava, J. Herz, D. Yu, M. Essand, W. Kastenmueller, E. Gaffal, T. Tueting; Magdeburg, Uppsala, Wuerzburg, Leiden
- P164**      **Pathogenic autoantibody of scurfy mice recognizes unknown AIBD-related antigen with a molecular weight of 93 kDa**  
E. Vicari, S. Haeberle, A. Enk, E. Hadaschik; Heidelberg, Essen
- P165**      **Reduced skin blistering in experimental epidermolysis bullosa after blockade of IFN-gamma or administration of IL-4 / IL-13**  
D. Scheppan, J. Markton, R. Ludwig, K. Bieber; Luebeck
- P166**      **ATF3 controls acute innate inflammation in vivo**  
S. Reinknecht, M. Burian, R. Eichkorn, N. Smatlik, M. Roecken, A. Yazdi; Tuebingen, Aachen
- P167**      **Simple and sensitive assays to detect autoantibodies against alpha 2 macroglobulin-like 1 in paraneoplastic pemphigus sera**  
C. Bazzini, B. Favre, N. BegrÉ, C. Schlapbach, L. Borradori; Bern
- P168 (OP03/01)**      **Immune complexes induce a patrolling response in non-classical monocytes**  
S. Preuss, H. Zhang, J. Young, J. Spatz, U. Engel, S. Oehrl, F. Olaru, K. Schaeckel; Heidelberg
- P169**      **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
- P170**      **Alopecia areata is governed by a reversible, senescence-like growth arrest**  
K. Meier, J. Brueck, T. Mehra, M. Gassenmaier, E. Mueller-Hermelink, I. Schaefer, F. Woelbing, K. Ghoreschi, M. Roecken; Berlin, Tuebingen, Munich
- P171 (OP02/05)**      **ERAP1 controls the HLA-C\*06:02-restricted autoimmune response against melanocytes in psoriasis**  
A. Arakawa, E. Reeves, S. Vollmer, M. He, S. Vural, Y. Arakawa, E. James, J. Prinz; Munich, Southampton
- P172**      **Skin Tissue Resident Memory T cells (TRM) are depleted in HIV infection**  
S. Saluzzo, J. Strobl, B. Reininger, L. Kleissl, V. Touzeau-Roemer, A. Rieger, G. Stingl, J. Estes, G. Stary; Vienna, Portland
- P173**      **Cytokine profile and specificity and of autoreactive T cells against desmoglein 3 in pemphigus vulgaris**  
L. Scarsella, V. Korff, K. Kuehn, D. Didona, 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, Bern, Freiburg, Hamburg

- P174** **CTLA4 promoter DNA methylation predicts progression-free survival in melanoma patients treated with anti-CTLA-4 immunotherapy**  
S. Fietz, D. Dietrich, J. Landsberg; Bonn
- P175 (OP02/02)** **Complex interactions between mitochondrial genome and microbiota modulate immune response in autoimmune skin inflammation**  
A. Tietje, P. Schilf, M. Hirose, A. Kuenstner, C. Sadik, J. Baines, S. Ibrahim; Luebeck, Ploen, Kiel
- P176** **Treatment of therapy resistant pemphigus vulgaris with apremilast**  
K. Meier, J. Holstein, F. Solimani, K. Ghoreschi; Berlin, Tuebingen
- P177** **Modulation of the T and Tfh cell distribution in pemphigus patients by B cell-depleting therapy**  
F. Solimani, C. Baum, J. Holstein, R. Pollmann, D. Didona, M. Hertl, R. Eming, W. Pfuetzner, K. Ghoreschi, C. Moebis; Berlin, Marburg, Tuebingen
- P178** **IL-17-producing circulating T cell subsets in active pemphigus promote autoantibody production by B cells**  
F. Solimani, J. Holstein, C. Baum, K. Meier, R. Pollmann, D. Didona, I. Schaefer, R. Eichkorn, A. Yazdi, R. Eming, M. Hertl, W. Pfuetzner, K. Ghoreschi, C. Moebis; Berlin, Marburg, Tuebingen
- P179** **IgG responses against desmoglein 3 and bullous pemphigoid 180 in lichen planus**  
D. Didona, R. Pollmann, F. Solimani, R. Eming, M. Hertl; Marburg, Berlin
- P180** **Investigating pemphigus vulgaris pathogenesis using a human skin organ culture model**  
H. Asmussen, N. Feldmann, K. Bieber, D. Zillikens, C. Hammers, R. Ludwig, J. Hundt; Luebeck
- P181** **B-cells in psoriasis?**  
S. Banki, J. Heusinger, T. Herter-Kermann, M. Sticherling; Erlangen
- P182 (OP03/03)** **Modulation of pro-inflammatory macrophage functions by sulfated hyaluronan reduces inflammatory processes in skin**  
S. Meyer, P. Zager, E. Wandel, M. Ordieres, S. Rother, A. Berg, S. Moeller, M. Schnabelrauch, J. Simon, V. Hintze, S. Franz; Leipzig, Dresden, Jena
- P183** **Tumor necrosis factor receptor TNFRSF9 (4-1BB): DNA methylation of an immune checkpoint receptor and its associations with molecular, clinicopathological, and immune correlates in melanoma**  
A. Froehlich, S. Loick, E. Bawden, J. Dietrich, H. Froehlich, D. Niebel, J. Sirokay, R. Zarbl, S. Fietz, F. Bootz, J. Landsberg, D. Dietrich; Bonn, Melbourne
- P184** **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, Berlin
- P185** **[18F]FDG PET/CT-based imaging method to characterize the therapeutic effects of DMF in EAE**  
J. Brueck, C. Calamianus, S. Hoffmann, M. Harent, K. Ghoreschi; Tuebingen, Berlin

## SCIENTIFIC PROGRAMME

- P186**      **Dimethyl fumarate-induced IL-17<sup>low</sup>IFN-<sup>low</sup>IL-4<sup>+</sup> Th cells protect mice from severe encephalomyelitis**  
J. Brueck, I. Glocova, J. Geisel, M. Roecken, K. Ghoreschi; Tuebingen, Berlin
- P187**      **Effective melanoma defense with functionalized theranostic superparamagnetic iron oxide nanoparticles targeting membrane-bound heat shock protein 70**  
M. Shevtsov, B. Nikolaev, L. Yakovleva, G. Multhoff, T. Biedermann, S. Kaesler; Munich, St. Petersburg
- P188**      **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, Solna
- P189**      **Establishment of wound infection models based on ex vivo skin co-cultured with neutrophil-like cells to investigate bacteria interactions with immune cells and potential antimicrobial treatments**  
F. Rancan, J. Jurisch, S. Findikci, U. Blume-Peytavi, A. Vogt, C. Schaudinn; Berlin
- P190**      **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
- P191**      **Neutrophil extracellular trap release enhances Staphylococcus aureus skin colonization**  
K. Bitschar, L. Staudenmaier, L. Klink, J. Focken, B. Schitteck; Tuebingen
- P192**      **Analysis of Epidermal Defense Molecules in Tinea Pedis**  
C. Pham, H. Hinrichs, V. Beck-Jendroschek, J. Brasch, R. Glaeser, J. Harder; Kiel
- P193**      **Diagnostic value of laboratory parameters for the discrimination between herpes zoster and bacterial superficial skin- and soft tissue-infection**  
C. Drerup, M. Eveslage, C. Sunderkoetter, J. Ehrchen; Muenster, Muenster, Halle (Saale)
- P194**      **Molecular Characterization of Staphylococcus aureus in hyper-IgE syndrome patients**  
V. Schwierzeck, R. Effner, F. Abel, M. Reiger, G. Notheis, A. de Tomassi, J. Held, V. Simon, S. Dinter, S. Stentzel, B. Broeker, R. Hoffmann, J. Huebner, B. Hagl, A. Mellmann, C. Traidl-Hoffmann, E. Renner; Muenster, Augsburg, Munich, Erlangen, Greifswald, Davos
- P195**      **Vitamin D and IL-10 reciprocally regulate antimicrobial peptide expression and intracellular iron accumulation in human macrophages**  
K. Knoke; M. Fabri; Cologne
- P196**      **Changes in the cutaneous immune landscape facilitate tick-borne pathogen transmission**  
(OP04/04)  
J. Strobl, S. Berent, A. Redl, V. Muendler, L. Kleissl, A. Schoetta, H. Stockinger, G. Stanek, M. Markowicz, G. Stary; Vienna
- P197**      **Antioxidative treatment ameliorates fibroblast dysfunction in Radiation-Induced Morphea**  
S. Kuenzel, M. Neue, N. Zimmermann, K. Kuenzel, S. Kaemmerer, E. Klapproth, S. Beissert, A. El-Armouche, C. Guenther; Dresden

## SCIENTIFIC PROGRAMME

- P198**      **Investigation of Topical Delivery of Rapamycin by means of a Skin Inflammatory Model based on Ex Vivo Tissue Culture**  
F. Rancan, X. Guo, K. Rajes, F. Zabihi, G. Germer, P. Patoka, E. Ruehl, R. Haag, U. Blume-Peytavi, A. Vogt; Berlin
- P199**      **Indocyanine green influences proliferation and apoptosis-induction after irradiation with water-filtered near-infrared - a new photodynamic therapy?**  
N. Zoeller, G. Reichenbach, K. Merkwitz, M. Jaeger, J. Kleemann, R. Kaufmann, S. Kippenberger; Frankfurt (Main)
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Amgen GmbH (€ 3.980)	PeproTech GmbH (€ 1.320)
BioLegend (€ 1.980)	PromoCell GmbH (€ 1.980)
CeraVe (L'Oréal Deutschland GmbH) (€ 1.100)	Sanofi Aventis Deutschland GmbH (see above)
DEVESA Dr. Reingraber GmbH & Co. KG (€1.980)	SCANBUR (€ 1.320)
Dr. Pflieger Arzneimittel GmbH (€ 5.320)	Shire Deutschland GmbH, jetzt Teil der Takeda Group (see above)
Janssen-Cilag GmbH (see above)	UCB Pharma GmbH (€ 1.980)
L'Oréal Deutschland GmbH (€ 1.980)	Vichy (L'Oréal Deutschland GmbH) (€1.100)
La Roche-Posay (L'Oréal Deutschland GmbH) (€ 4.100)	
Lilly Deutschland GmbH (see above)	

by Jan 20, 2020