



**42<sup>nd</sup> Annual Meeting  
of the  
Arbeitsgemeinschaft  
Dermatologische Forschung**

in collaboration with the  
Deutsche Dermatologische Gesellschaft (DDG)

March 05-07, 2015  
Ulm, Germany

by February 24, 2015

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

**Meeting Venue**

**University Ulm, Uni-Ost**  
Albert-Einstein-Allee 11, 89081 Ulm  
<http://www.uni-ulm.de/>

**Prior to the meeting**

**Conference phone: +49(0)6174 931 333**  
**Conference fax: +49(0)6174 931 343**

**During the meeting**

**Conference phone: +49(0)731-50 15560**

**How to get there**

**Arrival by car**

**From Nuremberg or Wuerzburg:**

Motorway A7, change at motorway junction Elchingen to A8 direction Stuttgart. Further way similar to motorway from Stuttgart or München.

**From Stuttgart or Munich:**

Motorway A8 exit Ulm West – change to B10 in direction Ulm/Friedrichshafen - exit Wissenschaftsstadt – Universität - follow description Universität Ost.

**Arrival by train**

From Ulm Central station take the bus 3 to Universität Süd (direction Wissenschaftsstadt) (travel time app. 20 min). Taxi (price app. 18-22 Euro)

**Arrival by airplane**

From **Frankfurt airport** take the InterCityExpress train from Frankfurt airport to Ulm central station direct (travel time app. 2 hours). From **Stuttgart-Echterdingen** it takes 30 min to central station Stuttgart by S-Bahn and from there approximately 1-1:15 hours to central station Ulm by train. From **Munich** it takes 45 min to central station Munich by S-Bahn and from there approximately 1:15-1:25 hours to central station Ulm by train.

(for further information see map on page 41 or [http://www.uni-ulm.de/fileadmin/website\\_uni\\_ulm/allgemein/plaene/Campusplan\\_OE\\_22072013.pdf](http://www.uni-ulm.de/fileadmin/website_uni_ulm/allgemein/plaene/Campusplan_OE_22072013.pdf))

**Local Organisers**

**Martina Gatzka, Thorsten Peters, Christiane Pfeiffer, Lars-Alexander Schneider, Anca Sindrilaru, Nicolai Treiber, Johannes Weiss, Meinhard Wlaschek,  
Karin Scharffetter-Kochanek**

Klinik für Dermatologie und Allergologie, Universitätsklinikum Ulm  
Albert-Einstein-Allee 23, 89081 Ulm

**Technical organisation, hotel, travel, social programme**

COPP Birgit Barnickel  
Friedrich-Ebert-Straße 12, 61462 Koenigstein  
Phone: +49(0)6174-93 13 33 Fax: +49(0)6174-93 13 43  
E-Mail: [birgit.barnickel@copp-barnickel.de](mailto:birgit.barnickel@copp-barnickel.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:      € 60.00 (onsite registration only!)  
Members:              € 40.00 (charged as membership fee!)  
Students are free of charge upon demonstration of appropriate documents.  
EC cards can be accepted (no credit cards!)

### Opening Hours of the Conference Bureau

Thursday, March 05, 2015	11:00-19:00
Friday, March 06, 2015	08:00-19:00
Saturday, March 07, 2015	08:30-14:00

**Oral Presentations(O)** Duration:      7 min.  
Discussion:      3 min.

### Projection

Projection of talks is exclusively via beamer. Please bring your powerpoint presentation on a CD and/or 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 150 cm.  
Mounting material will be provided.

### The inner workings of the DFG:

**13:55 - 14:25** (Hörsaal 7/Hall 7): Together with members from the DFG-review board (Fachkollegium) Dr. Katja Hartig will provide insights in the possibilities of DFG funding and the decision process of applications.

**14:30 - 17:00** (SR Anat. LS): Dr. Katja Hartig of the DFG will be available to discuss individual questions in 15 minutes time slots.

## MEETING ORGANISATION

**During the ADF Annual Meeting, the following working groups do meet as follows (by 08-12-2014):**

**Wednesday, March 04, 2015:**

AG Dermato-Endokrinologie	09:00-18:00	Hörsaal 2/Hall 2
AG Psoriasis	14:00-19:00	Hörsaal 7/Hall 7

**Thursday, March 05, 2015:**

AG Experimentelle Dermatoonkologie	09:30-12:30	Hörsaal 1/Hall 1
AG Experimentelle Allergologie	09:00-12:45	SR227
AG Autoimmunbulloese Dermatosen	09:00-13:00	SR251
AG Dermatologische Genetik	10:30-13:00	Hörsaal 10/Hall 10
AG Versorgungsforschung und Epidemiologie	10:30-12:00	SR252
AG Kutane Lymphome	09:30-12:30	SR226
AG Psoriasis	09:30-13:00	Hörsaal 7/ Hall 7

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)).

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**We thank for the support of the ADF working group awards:**

**Laboratoire Vichy  
for the ADE Research Award 2015**

(ADE-Forschungspreis 2015)

Prize: 1,500 €

**AbbVie Deutschland GmbH & Co KG  
for the AbbVie Research Award Dermatology 2015**

(AbbVie Forschungspreis Dermatologie, verliehen in der AG Psoriasis)

Prize: 10,000 €

## About the 42. Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung

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*Dear Colleagues and Friends,*

We would like to warmly welcome you to the 42<sup>nd</sup> Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung. This year, we have received 248 abstracts out of which we have chosen 36 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*, as well as of the Awards for Dermato Oncology and the ADF/ECARF Award will present their work. We are grateful to all foundations and supporters to enable the ADF to give these awards. Together with the Deutsche Stiftung Dermatologie (DSD), we will also award the *DSD/ADF Research Grant*, to promote the research activities of junior scientists.

The posters should be presented during the entire meeting to allow for vivid discussions during the ADF. 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 six best posters nominated by the poster committees will receive a poster award at the end of the meeting. In addition, to further support young researchers, six additional travel grants will be awarded facilitating the young scientists' participation to the upcoming ADF Meeting 2016.

We are looking forward to this year's workshop, which is devoted to „*Forever together - Stem cells and their niches*“. Additional highlights of this year's annual meeting are the *Guenter Goerz Memorial Lecture* and the *Guest Lecture*, which will be given by Thomas Schwarz (Kiel) and Frederic Geissmann (London), 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 Ulm.

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

*Thomas Tueting*  
*President*

*Martin Metz*  
*Secretary*

*Amir Yazdi*  
*Treasurer*

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

### **Experts for abstract review**

U. Anderegg, Leipzig	J. Frank, Duesseldorf	E.-B. Peters, Giessen
J. Brandner, Hamburg	S. Haferkamp, Würzburg	W. Pfuetzner, Marburg
P. Brunner, Vienna	C. Has, Freiburg	E. Schmidt, Luebeck
C. Busch, Tuebingen	W. Hoetzenecker, Zuerich	S. Schneider, Mannheim
S. Dubrac, Innsbruck	J. Kloepper, Luebeck	F. Siebenhaar, Berlin
S. Emmert, Goettingen	J. Landsberg, Bonn	C. Weishaupt, Münster
L. Erpenbeck, Goettingen	R. Loewe, Vienna	J. Weiss, Ulm
P. Eßer, Freiburg	K. Mahnke, Heidelberg	K. Witte, Berlin
M. Felcht, Mannheim	C. Niessen, Cologne	

### **Poster committee 1** (even numbers)

#### **A. Yazdi, Tuebingen**

K. Griewank, Essen  
E. Guenova, Zuerich  
E. Hadaschik, Heidelberg  
S. Ibrahim, Lübeck  
E. Peters, Giessen

### **Poster committee 2** (odd numbers)

#### **K. Ghoreschi, Tuebingen**

U. Anderegg, Leipzig  
R. Eming, Marburg  
C. Has, Freiburg  
J. Landsberg, Bonn  
K. Eyerich, München

### **Poster walks**

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

Adaptive Immunity (K. Mahnke)	Infectious Diseases (von Stebut-Borschitz)
Allergy (I. Bellinghausen)	Innate Immunity (M. Fabri)
Cellular Biology (C. Niessen)	Mast cells and Basophils (K. Hartmann)
Clinical Research (J. Ehrchen)	Psoriasis (R. Sabat)
Dermato-Endocrinology (R. Wolf)	Tumor Biology (M. Kunz)
Epidemiology and Genetics (S. Emmert)	Tumor Immunology (H. Braumüller)

*We thank Janssen Cilag GmbH for the kind support.*

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

Thursday, March 5, 2015

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

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

**14:00-14:10 Welcome Address**  
**K. Scharffetter-Kochanek, T. Tueting**

**14:10-15:10 Oral Presentations I**  
**Chairs: M. Maurer, R. Ludwig**

- O01/01 14:10 (P022) MSCs sense TGF-  $\beta$ 1 deficiency and via adaptive up-regulation of miR-21 enhance TGF-  $\beta$ 1 release restoring impaired wound healing in a murine LAD1 model**  
 D. Jiang, J. Muschhammer, K. Singh, A. Hainzl, S. Vander Beken, A. Sindrilaru, M. Wlaschek, K. Scharffetter-Kochanek; Ulm
- O01/02 14:20 (P002) Regulatory T cells induced by epicutaneous and oral low zone tolerance prevent the development of a Th1/Th17-mediated colitis**  
 T. Schmidt, N. Lorenz, V. Raker, S. Reissig, A. Waisman, B. Weigmann, K. Steinbrink; Mainz, Erlangen
- O01/03 14:30 (P051) The psoriasis-associated IL-17A interferes with keratinocyte differentiation in 3D organotypic skin models**  
 C. Pfaff, Y. Marquardt, K. Czaja, R. Wolf, B. Luescher, J. Baron; Aachen, Munich
- O01/04 14:40 (P177) Dual immune checkpoint blockage delays GNAQ-driven tumor growth in an autologous murine uveal melanoma model.**  
 B. Schilling, T. Schneider, I. Moeller, A. Sucker, A. Paschen, D. Schadendorf, K. Griewank; Essen, Heidelberg
- O01/05 14:50 (P097) Meta-analysis of genome-wide association studies in alopecia areata resolves HLA associations and reveals two new susceptibility loci**  
 S. Redler, L. Petukhova, S. Ripke, H. Huang, A. Menelaou, T. Becker, S. Heilmann, T. Yamany, M. Duvic, M. Hordinsky, D. Norris, V. Price, J. Mackay-Wiggan, A. de Jong, G. DeStefano, S. Moebus, M. Boehm, U. Blume-Peytavi, H. Wolff, G. Lutz, R. Kruse, L. Bian, C. Amos, A. Lee, P. Gregersen, B. Blaumeiser, D. Altshuler, R. Clynes, P. de Bakker, M. Noethen, M. Daly, A. Christiano, R. Betz; Bonn, New York, Boston, MA, Utrecht, Houston, Minneapolis, Colorado, San Francisco, NY, Essen, Muenster, Berlin, Munich, Wesseling, Paderborn, Hanover, Manhasset NY, Antwerp
- O01/06 15:00 (P076) Vasoactive intestinal peptide (VIP) is a novel, complex neuroendocrine regulator of human HF melanocyte biology in situ**  
 M. Bertolini, M. Baehr, M. Sulk, M. Pretzlaff, Y. Uchida, M. Reibelt, F. Zilio, T. Biró, R. Paus; Muenster, Luebeck, Kagoshima, Debrecen, Manchester

Thursday, March 5, 2015

**15:10-15:20**

**ADF Award I**

(Short presentation of awardee)

**Paul Langerhans Award\***

M. Hertl, M. Metz

*\*The ADF thanks Biogen Idec for the kind support.*

**15:20-15:40**

**Quo Vadis Lecture I**

K. Loser, Muenster:

***Costimulation in Control***

Introduction: T. Tueting

**15:40-16:10**

***Coffee break***

**16:10-18:10**

**WORKSHOP**

***Forever together - Stem cells and their niches***

Organisation/  
Moderation:

**K. Scharffetter-Kochanek, T. Tueting**

Catherin Niemann, Cologne

**Interfering with stem cell-specific gatekeeper functions results in skin tumor formation**

Gilbert Weidinger, Ulm

**Wnt signaling acts as master regulator of regenerative growth of the zebrafish fin**

Hartmut Geiger, Ulm

**Ageing of the hematopoietic stem cells and its niche**

Natasha Y. Frank, Boston

**ABCB5 is a limbal stem cell gene required for corneal development and repair**

*With kind support from AbbVie Deutschland*

**18:10-22:00**

**POSTER SESSION AND NETWORKING**

With snacks and drinks



Friday, March 6, 2015

**08:30-09:30**

**Oral Presentations II**

**Chairs: M. Hertl, K. Eyerich**

**002/01 08:30  
(P222)**

**Tumor-derived VEGF-A mediates hypercoagulation via von Willebrand factor fiber generation in tumor vessels of malignant melanoma**

A. Bauer, J. Suckau, L. Goertz, C. Gorzelanny, V. Umansky, S. Schneider; Mannheim, Heidelberg

**002/02 08:40  
(P190)**

**Distinct functions of epidermis- and myeloid cell-specific VEGF-A in human papillomavirus type 8-mediated tumorigenesis**

X. Ding, T. Lucas, G. Marcuzzi, H. Pfister, S. Eming; Cologne

**002/03 08:50  
(P149)**

**BAY61-3606, a novel spleen tyrosine kinase inhibitor, attenuates organ-specific, autoantibody-induced tissue injury**

N. Mitschker, U. Samavedam, D. Zillikens, R. Ludwig; Luebeck

**002/04 09:00  
(P136)**

**Normal steady-state, but increased cutaneous immune responses in barrier-disrupted filaggrin/hornerin (FLG/HRNR)-deficient mice**

S. Rahrig, J. Petersen, B. Brauns, V. Lorenz, T. Buhl, S. Weidinger, M. Mempel, M. Schoen, A. Braun; Goettingen, Kiel, Goettingen and Osnabrueck

**002/05 09:10  
(P031)**

**Ceramide synthase 4 is involved in the regulation of hair follicle stem cell homeostasis**

F. Peters, S. Vorhagen, S. Brodesser, K. Jakobshagen, J. Bruening, C. Niessen, M. Kroenke; Cologne

**002/06 09:20  
(P102)**

**Mechanistic analysis of CD3-driven T cell functions reveals a CD32a polymorphism associated with melanoma emergence.**

J. Dreesen, B. Schilling, M. Koldehoff, D. Schadendorf, B. Singer; Essen, Heidelberg

**09:30-10:00**

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

**10:00-10:30**

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

**10:30-11:10**

**GUENTER GOERZ MEMORIAL LECTURE**

T. Schwarz, Kiel

***Understanding the sun's language***

Introduction: M. Boehm, Muenster

**11:10-11:25**

**ADF Awards II**

(Short presentations of awardees)

**8<sup>th</sup> ADF/DSD Research Grant**

T. Tueting, R. Kaufmann

Friday, March 6, 2015

**11:25-12:25**

**Oral Presentations III**

**Chairs: E. Makrantonaki, M. Leverkus**

- 003/01 11:25 (P103)** **The Aryl hydrocarbon receptor is up-regulated in murine as well as human systemic lupus erythematosus and seems to be involved in disease progression**  
C. Baumann, E. Hesse, U. Saunders, K. Holz, N. Sucker, L. Klenner, C. Sternemann, A. Jacobi, T. Luger, K. Loser; Muenster
- 003/02 11:35 (P059)** **IL-29 induces unique chemokines and provokes T-cell infiltration into the skin**  
E. Witte, K. Warszawska, D. Christou, K. Witte, S. Kirsch, H. Volk, W. Sterry, R. Sabat, K. Wolk; Berlin
- 003/03 11:45 (P134)** **Enhanced MHC class I molecule expression on Merkel cell carcinoma by HDAC inhibitors**  
C. Ritter, K. Fan, R. Houben, D. Schrama, J. Becker; Essen, Graz, Wuerzburg
- 003/04 11:55 (P082)** **Role of the cholinergic system in cutaneous stress response**  
F. Rommel, B. Raghavan, S. Laux, J. Kruse, U. Gieler, E. Peters; Giessen, Berlin
- 003/05 12:05 (P124)** **Characterization of circulating CD4+CXCR5+ follicular helper T cells in pemphigus vulgaris**  
R. Pollmann, T. Schmidt, C. Moebis, M. Seipelt, B. Tackenberg, W. Pfuetzner, M. Hertl, K. Ghoreschi, R. Eming; Marburg, Tuebingen
- 003/06 12:15 (P058)** **Silver-nanoparticles complexed with natural extract of Cornus Mass significantly inhibit inflammation in vitro and in human psoriasis plaques**  
D. Crisan, I. Roman, I. Olenic, M. Crisan, K. Scharffetter-Kochanek, A. Sindrilaru; Ulm, Cluj-Napoca

**12:25-13:25**

**Poster Walks**

***We thank Janssen-Cilag GmbH for their support.***

- |                                       |  |
|---------------------------------------|--|
| Adaptive Immunity (K. Mahnke)         | Infectious Diseases (von Stebut-Borschitz) |
| Allergy (I. Bellinghausen)            | Innate Immunity (M. Fabri)                 |
| Cellular Biology (C. Niessen)         | Mast cells and Basophils (K. Hartmann)     |
| Clinical Research (J. Ehrchen)        | Psoriasis (R. Sabat)                       |
| Dermato-Endocrinology (R. Wolf)       | Tumor Biology (M. Kunz)                    |
| Epidemiology and Genetics (S. Emmert) | Tumor Immunology (H. Braumüller)           |

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

Friday, March 6, 2015

**13:25-14:25      Lunchbreak**

**13:55-14:25      The inner workings of the DFG**  
(K. Hartig and members from the DFG-review board)  
Hörsaal 7/Hall 7

**14:25-15:25      Oral Presentations IV**  
**Chairs: J. Brandner, T. Biedermann**

**O04/01    14:25      Specific TLR activation mediates innate immune signal triggered co-factor dependent anaphylaxis**  
**(P003)**  
F. Woelbing, S. Kaesler, W. Kempf, A. Umbach, P. Woelbing, M. Koeberle, Y. Skabytska, F. Lang, P. Yu, D. Voehringer, M. Roecken, T. Biedermann; Muenchen, Tuebingen, Tuebingen, Marburg, Erlangen

**O04/02    14:35      A new mucosal vaccine targets a distinct dendritic cell subset to convert a tolerogenic into a protective immune response against Chlamydia trachomatis**  
**(P148)**  
G. Stary, A. Olive, A. Radovic-Moreno, D. Gondek, D. Alvarez, M. Perro, O. Farokhzad, R. Langer, M. Starnbach, U. von Andrian; Boston, Cambridge

**O04/03    14:45      Immune complexes recruit proinflammatory human slanDCs in vitro and in vivo**  
**(P125)**  
F. Olaru, T. Doebel, A. Lonsdorf, A. Enk, K. Schaekel; Heidelberg

**O04/04    14:55      Inflammatory caspases and IL-1 in pemphigus vulgaris**  
**(P053)**  
K. Welsch, K. Meier, T. Maier, R. Eming, M. Hertl, A. Yazdi; Tuebingen, Marburg

**O04/05    15:05      The role of the mitochondrial genome in autoimmune blistering skin diseases**  
**(P128)**  
P. Schilf, M. Hirose, E. Schmidt, S. Ibrahim; Luebeck

**O04/06    15:15      Chronic itch in hemodialysis: new data from the German Epidemiological Hemodialysis Itch Study (GEHIS) study**  
**(P088)**  
M. Weiss, K. Hayani, T. Mettang, U. Tschulena, E. Weisshaar; Heidelberg, Wiesbaden, Bad Homburg

**15:25-15:45      Quo Vadis Lecture II**  
M. Sixt, Klosterneuburg  
***Magic migration - mechanisms of immune cell trafficking in the skin***  
Introduction: S. Eming

Friday, March 6, 2015

**15:45-16:00**

**ADF Awards III**

(Short presentations of awardee)

**Egon Macher Award\***

S. Goerdts, M. Metz

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

**16:00-16:30**

**Coffee Break + Best of ADF Winter School 2015**

**16:30-17:30**

**GUEST LECTURE**

Frederic Geissmann, London (UK)

***Development of macrophages and dendritic cells***

Introduction/discussion: K. Schaekel

**17:30-18:00**

**ADF Awards IV**

**ADF Dermato Oncology Award\***

T. Tueting

**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)*

**18:00-19:00**

**ADF General Assembly**

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

**19:30**-open end

**Skin Research Forum**

In the center of Ulm we will celebrate in a traditional "schwaebisch" restaurant, but it wouldn't be the ADF if we can't find a way to also have a party to remember

**Ratskeller Ulm** ([www.ratskeller-ulm.de](http://www.ratskeller-ulm.de))

Marktplatz 1, 89073 Ulm

Take the Bus No. 3 from Uni downtown to main station and have a little walk through pedestrian zone to the Rathaus / city hall or take bus no. 5 from main station to city hall

Saturday, March 7, 2015

**09:00-10:00**

**Oral presentations V**

**Chairs: M. Goebeler, F. Siebenhaar**

**005/01 09:00  
(P235)**

**Resistance to T cell therapy through reciprocal interactions between melanoma, endothelial and immune cells in the perivascular niche**

J. Landsberg, T. Bald, M. Rogava, M. Renn, J. Kohlmeyer, M. Hoelzel, T. Tueting; Bonn

**005/02 09:10  
(P150)**

**Deregulated production of reactive oxygen species by an age-dependently increased T cell subset leads to autoreactivity and immunosenescence**

S. Koellner, J. Scheuermann, S. Vander Beken, A. Sindrilaru, K. Scharffetter-Kochanek, T. Peters; Ulm

**005/03 09:20  
(P039)**

**The necroptosis-sensitizing effect of TRAF2 knockdown upon TRAIL stimulation is a genuine TRAIL signalling effect and can be mimicked by TWEAK**

I. Karl, N. Schmidt, S. Horn, M. Goebeler, M. Leverkus, T. Giner; Wuerzburg, Mannheim

**005/04 09:30  
(P188)**

**Contribution of mast cell-derived VEGF to tumor growth**

A. Rabenhorst, S. Leja, A. Florin, L. Heukamp, R. Ullrich, A. Foerster, A. Roers, R. Buettner, K. Hartmann; Cologne, Dresden

**005/05 09:40  
(P155)**

**Deficiency of mannose-binding lectin (MBL) negatively affects cutaneous leishmaniasis in naturally resistant mice**

A. Schermann, B. Lorenz, E. von Stebut; Mainz

**005/06 09:50  
(P086)**

**How to assess infant atopic dermatitis in a birth cohort study - experiences from the Ulm SPATZ Health Study**

J. Genuneit, S. Braig, C. Logan, J. Weiss, D. Rothenbacher; Ulm

**10:00-10:20**

**Quo Vadis Lecture III**

S. Weidinger, Kiel

***Barrier and bases***

Introduction: M. Metz

**10:20-11:05**

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

**11:05-11:50**

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

Saturday, March 7, 2015

**11:50-12:50**

**Oral Presentations VI**

**Chairs: K. Scharffetter-Kochanek, A. Jalili**

**006/01 11:50  
(P231)**

**Melanoma-derived ADAM-9 modulates melanoma development and metastasis in vivo**

N. Moro, A. Schoenefuss, J. Landsberg, T. Tueting, C. Mauch, P. Zigrino;  
Cologne, Bonn

**006/02 12:00  
(P160)**

**Lack of IL-10 signaling in dendritic cells enhances anti-Leishmania major immunity**

M. Girard-Madoux, K. Kautz-Neu, B. Lorenz, J. Ober-Bloebaum, E. von Stebut,  
B. Clausen; Rotterdam, Mainz

**006/03 12:10  
(P196)**

**RIPK3 promoter methylation confers necroptosis resistance to malignant melanoma**

P. Geserick, J. Wang, R. Schilling, S. Horn, M. Feoktistova, M. Leverkus; Mannheim

**006/04 12:20  
(P140)**

**Curcumin protects from inflammatory autoimmune disease by suppressing IL-12/IL-23p40**

J. Brueck, I. Glocova, J. Geisel, J. Holstein, M. Roecken, A. Yazdi, K. Ghoreschi;  
Tuebingen

**006/05 12:30  
(P006)**

**Three-year follow-up of regulatory T cells during wasp venom immunotherapy**

A. Kerstan, C. Hosp, J. Stoevesandt, M. Goebeler, A. Trautmann; Wuerzburg

**006/06 12:40  
(P143)**

**Contribution of IgE auto-antibodies to the pathogenesis of bullous pemphigoid**

P. Freire, N. Reiter, P. Heil, G. Stingl; Vienna

**12:50-13:20**

**POSTER AWARDS AND TRAVEL GRANTS\***

**Chairs: K. Ghoreschi, A. Yazdi**

*\*The ADF thanks Almirall Hermal GmbH,  
ALK-Abelló Arzneimittel GmbH, head&shoulders, R&D Systems GmbH for  
their support.*

**13:20**

**Acknowledgements, Farewell, End of Meeting**

T. Tueting

**POSTER SESSIONS**

<b>All posters:</b>	<b>Thursday,</b>	<b>March 5,</b>	<b>18:10-22:00 Uhr</b>
<b>Even poster numbers:</b>	<b>Friday,</b>	<b>March 6,</b>	<b>09:30-10:00 Uhr</b>
	<b>Saturday,</b>	<b>March 7,</b>	<b>10:20-11:05 Uhr</b>
<b>Odd poster numbers:</b>	<b>Friday,</b>	<b>March 6,</b>	<b>10:00-10:30 Uhr</b>
	<b>Saturday,</b>	<b>March 7,</b>	<b>11:05-11:50 Uhr</b>

Allergy

- P001**      **Epidermal PAR2 overexpression causes atopic dermatitis-like skin disease: Neuro-epidermal communication**  
T. Buhl, A. Ikoma, F. Cevikbas, C. Kempkes, M. Sulk, T. Akiyama, E. Carstens, M. Schoen, P. Elias, S. Coughlin, M. Steinhoff;  
Goettingen, Dublin, San Francisco, Muenster, Davis
- P002**      **Regulatory T cells induced by epicutaneous and oral low zone tolerance prevent the development of a Th1/Th17-mediated colitis**  
**(O01/02)**      T. Schmidt, N. Lorenz, V. Raker, S. Reissig, A. Waisman, B. Weigmann, K. Steinbrink;  
Mainz, Erlangen
- P003**      **Specific TLR activation mediates innate immune signal triggered co-factor dependent anaphylaxis**  
**(O04/01)**      F. Woelbing, S. Kaesler, W. Kempf, A. Umbach, P. Woelbing, M. Koeberle, Y. Skabytska, F. Lang, P. Yu, D. Voehringer, M. Roecken, T. Biedermann;  
Munich, Tuebingen, Tuebingen, Marburg, Erlangen
- P004**      **Atopic dermatitis and attention deficit hyperactivity disorder: Altered granule transport mechanisms pave the road to atopy**  
M. Glemnitz, W. Woelfer, K. Krauel, B. Bonnekoh, U. Roettger, H. Flechtner, H. Gollnick, A. Ambach; Magdeburg
- P005**      **House dust mite-specific T cells display a Th2, Th17, and Th2/Th17 phenotype in atopic dermatitis**  
L. Roesner, A. Heratizadeh, G. Begemann, P. Kienlin, S. Hradetzky, M. Niebuhr, B. Eiz-Vesper, C. Hennig, G. Hansen, V. Baron-Bodo, P. Moingeon, T. Werfel;  
Hannover, Antony
- P006**      **Three-year follow-up of regulatory T cells during wasp venom immunotherapy**  
**(O06/05)**      A. Kerstan, C. Hosp, J. Stoevesandt, M. Goebeler, A. Trautmann; Wuerzburg
- P007**      **Hapten-induced extracellular ATP is degraded by Treg, impairing egress of effector T cells from lymph nodes and reducing contact hypersensitivity reactions**  
J. Kersyte, A. Puskarevskaya, P. Kage, R. Koch, A. Enk, K. Mahnke; Heidelberg
- P008**      **Nonsteroidal anti-inflammatory drug (NSAID) hypersensitivity - possible association with elevated serum tryptase and tolerance of COX-2-inhibitors**  
C. Winter, K. Scharffetter-Kochanek, J. Weiss; Ulm

- P009**      **Analysis of basophilic activation and T cell responses by allergens encapsulated into degradable PEG-nanocarriers**  
H. Koehring, I. Bellinghausen, H. Frey, J. Saloga; Mainz
- P010**      **Chronic Urticaria Registry (CURE) - the first international disease registry for chronic urticaria**  
K. Weller, A. Gimenez-Arnau, R. Asero, P. Mathelier-Fusade, C. Grattan, M. Maurer; Berlin, Barcelona, Milano, Paris, Norwich
- P011**      **Anaphylaxis: discrepancy in guideline adherence between acute management and medication at discharge.**  
Y. Mostmans, M. Blykers, P. Mols, J. Gutermuth, M. Grosber, N. Naeije; Jette, Brussels
- P012**      **Interaction of Brain Derived Neurotrophic Factor (BDNF) with the cholinergic system of the skin under stress**  
B. Raghavan, F. Rommel, S. Tumala, U. Gieler, E. Peters; Giessen, Berlin
- P013**      **Long-term outcome after discontinuation of hymenoptera venom-specific immunotherapy**  
C. Moebis, J. Pickert, A. Rudzio, J. Mueller, F. Bantleon, E. Spillner, W. Pfuetzner; Marburg, Aarhus
- P014**      **Allergic diseases do affect the true elderly**  
K. Diestmann, K. Grochulska, C. Pfeiffer; Ulm, Augsburg
- P015**      **Lipid mediators from pollen inhibit the innate antiviral defense**  
S. Gilles, M. Kamml, L. Meulenbroek, C. Blume, S. Steiert, A. Chaker, M. Bas, L. Knippels, C. Schmidt-Weber, C. Traidl-Hoffmann; Augsburg, Munich, Utrecht, Southampton, Davos
- P016**      **Low Dose Omalizumab Therapy Inhibits IgE Production ex vivo using PBMCs**  
M. Stawujak, S. Galuschka, M. Schneider, M. Braeutigam, B. Bonnekoh, H. Gollnick, A. Ambach; Magdeburg, Schoenenbuch, Nuernberg

## Cellular Biology

- P017**      **Cockayne syndrome and disturbed protein homeostasis**  
M. Alupej, K. Scharffetter-Kochanek, S. Iben; Ulm
- P018**      **Platelet-derived growth factors induce the expression of the antimicrobial peptide human beta-defensin-2 in primary keratinocytes**  
J. Lammel, A. Bayer, M. Tohidnezhad, T. Pufe, R. Glaeser, J. Harder; Kiel, Aachen
- P019**      **Epithelial transdifferentiation of Adipocyte-Derived Stromal Cells (ADSC) – Comparison of different medium compositions**  
L. Petry, J. Mueller, N. Zoeller, M. Hofmann, A. Bernd, R. Kaufmann, M. Meissner, S. Kippenberger; Frankfurt/Main
- P020**      **Oxidative stress induced IGF-1 resistance in fibroblasts through concomitant activation of the key phosphatases PTP1B and PTEN**  
K. Singh, P. Maity, L. Krug, P. Meyer, M. Wlaschek, K. Scharffetter-Kochanek; Ulm
- P021**      **In-silico knock-out predictions identify NEMO as a possible target to prevent the onset of the senescence associated secretory phenotype**  
P. Meyer, C. Muessel, P. Maity, K. Singh, L. Krug, M. Wlaschek, H. Kestler, K. Scharffetter-Kochanek; Ulm



- P022 (O01/01)** **MSCs sense TGF-  $\beta$ 1 deficiency and via adaptive up-regulation of miR-21 enhance TGF-  $\beta$ 1 release restoring impaired wound healing in a murine LAD1 model**  
D. Jiang, J. Muschhammer, K. Singh, A. Hainzl, S. Vander Beken, A. Sindrilaru, M. Wlaschek, K. Scharffetter-Kochanek; Ulm
- P023** **Towards further characterization of ABCB5+ mesenchymal stem cells in the ageing skin**  
J. de Vries, B. Meier, D. Jiang, N. Frank, S. Vander Beken, Y. Ziouta, A. Kluth, C. Ganss, M. Frank, K. Scharffetter-Kochanek; Ulm, Boston, Heidelberg
- P024** **Biocompatibility of aminocelluloses in monolayer keratinocyte cultures and three-dimensional skin models**  
S. Finger, C. Wiegand, S. Fink, T. Liebert, T. Heinze, U. Hipler; Jena
- P025** **Aminocellulose-coating of glass slides improves keratinocyte attachment and proliferation in vitro**  
C. Wiegand, S. Finger, T. Liebert, T. Heinze, U. Hipler; Jena
- P026** **Evaluation of antimicrobial efficacy and cell compatibility of cold atmospheric pressure plasma in vitro**  
C. Wiegand, S. Fink, K. Horn, A. Pfuch, O. Beier, A. Schimanski, U. Hipler; Jena
- P027** **Regulation of von Willebrand factor (VWF)-mediated cutaneous inflammation**  
C. Hillgruber, B. Poepplmann, D. Vestweber, S. Schneider, T. Goerge; Muenster, Mannheim
- P028** **Cytokine mediated induction of mTORC1 signaling prevents proper differentiation of keratinocytes and contributes to the pathogenesis of psoriasis**  
V. Lang, S. Diehl, R. Kaufmann, W. Boehncke, C. Buerger; Frankfurt/Main, Geneva
- P029** **Establishment of keratinocyte cell lines from human hair follicles**  
T. Berger, M. Gschwandtner, A. Strajeriu, A. Elbe-Buerger, J. Grillari, R. Grillari-Voglauer, E. Tschachler, M. Mildner; Vienna
- P030** **Anti-inflammatory properties of a bacterial endopeptidase in vivo and in vitro**  
M. Stock, B. Poepplmann, T. Goerge; Muenster
- P031 (O02/05)** **Ceramide synthase 4 is involved in the regulation of hair follicle stem cell homeostasis**  
F. Peters, S. Vorhagen, S. Brodesser, K. Jakobshagen, J. Bruening, C. Niessen, M. Kroenke; Cologne
- P032** **Tight junction proteins: new players in pathogenesis of chronic wounds**  
T. Volksdorf, J. Lentfer, N. Kirschner, S. Eming, C. Bohner, M. Zorn-Kruppa, S. Sehner, I. Moll, J. Brandner; Hamburg, Cologne
- P033** **Differential responses of human melanoma cells to c-Rel down-regulation**  
M. Priebe, V. Lorenz, M. Schoen, C. Seitz; Goettingen
- P034** **Desmoglein 3-specific autoantibodies recognizing a membrane-proximal epitope induce loss of keratinocyte adhesion**  
Y. Exner, T. Schmidt, L. Dittmar, F. Voellner, V. Spindler, J. Waschke, R. Tikkanen, M. Hertl, R. Eming; Marburg, Giessen, Munich

- P035**      **Proteome analysis of primary human skin mast cells**  
M. Gschwandtner, V. Paulitschke, T. Berger, A. Tschachler, M. Mildner, C. Gerner, E. Tschachler; Vienna
- P036**      **NADH dehydrogenase subunit 2 mutation leads to delayed fibroblast ageing**  
M. Schauer, T. Kottek, S. Ibrahim, M. Kunz; Leipzig, Luebeck
- P037**      **Transcriptome analysis of FcRI-stimulated mast cells reveals Syk-independent regulation of gene expression**  
J. Scheffel, M. Maurer, J. Rivera; Bethesda, Berlin
- P038**      **Impact of different Spa waters on inflammation parameters in human keratinocytes**  
N. Zoeller, E. Valesky, M. Hofmann, J. Bereiter-Hahn, A. Bernd, R. Kaufmann, M. Meissner, S. Kippenberger; Frankfurt/Main
- P039**  
**(O05/03)**      **The necroptosis-sensitizing effect of TRAF2 knockdown upon TRAIL stimulation is a genuine TRAIL signalling effect and can be mimicked by TWEAK**  
I. Karl, N. Schmidt, S. Horn, M. Goebeler, M. Leverkus, T. Giner; Wuerzburg, Mannheim
- P040**      **Interplay of histone H2A deubiquitinase 2A-DUB/Mysm1 with p53-mediated anti-apoptotic and anti-proliferative programs in skin development and homeostasis**  
M. Gatzka, C. Wilms, A. Hainzl, A. Tasdogan, S. Iben, M. Wlaschek, K. Scharffetter-Kochanek; Ulm
- P041**      **Involvement of BCL-XL in regulation of mast cell survival**  
A. Foerster, A. Rabenhorst, J. Seeger, Y. He, H. Kashkar, A. Roers, K. Hartmann; Cologne, Durham, Dresden
- P042**      **Nrf2 activation in keratinocytes enhances wound closure and barrier re-establishment**  
S. Muzumdar, S. Werner, M. Schaefer; Zurich
- P043**      **Erk5 inhibits endothelial migration via KLF2-dependent downregulation of PAK1**  
C. Adam, R. Komaravolu, M. Goebeler, M. Schmidt; Wuerzburg
- P044**      **Expression of the focal adhesion protein kindlin-1 as protective factor against UV-B induced apoptosis**  
K. Maier, Y. He, S. Loeffek, U. Woelfle, L. Bruckner-Tuderman, C. Has; Freiburg, Essen
- P045**      **The NADPH oxidase isoform Nox4 controls TGF-beta1-mediated activation of human dermal fibroblasts: A promising new target for the treatment of systemic sclerosis?**  
H. Heba Dosoki, A. Stegemann, M. Taha, H. Hans Schnittler, K. Kenji Hashimoto, J. Kudla, T. Luger, C. Claus Kerkhoff, M. Boehm; Osnabrueck
- P046**      **Water filtered infrared A influences wound healing associated cytokines and cell division**  
N. Zoeller, M. Butting, M. Hofmann, S. Kippenberger, A. Bernd, R. Kaufmann; Frankfurt/Main
- P047**      **HDAC inhibitors decreases lymphangiogenesis by inducing apoptosis and cell cycle arrest via p53/p21-dependent pathways**  
I. Hrgovic, M. Doll, A. Pinter, R. Kaufmann, M. Meissner; Frankfurt/Main

- P048**      **Resveratrol impairs lymphangiogenesis through G0/G1 cell cycle arrest and apoptosis**  
I. Hrgovic, A. Berndt, A. Pinter, R. Kaufmann, M. Meissner; Frankfurt/Main
- P049**      **Unraveling the role of aPKC $\lambda$  in the regulation of oriented cell division and stem cell homeostasis in the mammalian epidermis**  
S. Vorhagen, M. Fink, F. Tellkamp, J. Zielinski, M. Leitges, C. Niessen; Cologne, Oslo
- P050**      **Targeted deletion of suprabasal keratins K2 and K10 causes upregulation of K1 and K16**  
H. Fischer, L. Langbein, S. Praetzel-Wunder, J. Reichelt, E. Tschachler, L. Eckhart; Vienna, Heidelberg, Newcastle upon Tyne
- P051 (O01/03)**      **The psoriasis-associated IL-17A interferes with keratinocyte differentiation in 3D organotypic skin models**  
C. Pfaff, Y. Marquardt, K. Czaja, R. Wolf, B. Luescher, J. Baron; Aachen, Munich
- P052**      **LASP-1 in melanoma - no tumor marker but melanin regulator**  
A. Vaman, H. Poppe, R. Houben, M. Goebeler, E. Butt; Wuerzburg

## Chemokines/Cytokines

- P053 (O04/04)**      **Inflammatory caspases and IL-1 in pemphigus vulgaris**  
K. Welsch, K. Meier, T. Maier, R. Eming, M. Hertl, A. Yazdi; Tuebingen, Marburg
- P054**      **IL-1 signalling is up-regulated in chronic venous leg ulcers and represents a therapeutic target that is counteracted by dermal ABCB5+ mesenchymal stem cells via secretion of interleukin-1 receptor antagonist**  
S. Vander Beken, P. Meyer, A. Sindrilaru, D. Jiang, J. de Vries, S. Schatz, A. Heinzl, A. Kluth, B. Over, S. Miller, N. Kettern, C. Ganss, N. Frank, M. Frank, M. Wlaschek, K. Scharffetter-Kochanek; Ulm, Heidelberg, Boston
- P055**      **Orai1 and STIM1 control IL17a-induced calcium signals in human primary keratinocytes**  
B. Darbellay, N. Brembilla, R. Stalder, M. Fernandez, L. Barnes, W. Boehncke; Geneva
- P056**      **Innate immune sensing of Toll-like receptor ligands modulates CXCL16 expression on monocytes and dendritic cells in psoriasis**  
S. Bach, K. Blau, N. Zimmermann, S. Abraham, C. Guenther; Dresden
- P057**      **PsoBiop - A clinical trial correlating the dermal signaling pattern with systemic metabolic and inflammatory parameters in psoriasis vulgaris**  
M. Hofmann, V. Lang, S. Diehl, K. Fotiou, B. Malisiewicz, R. Kaufmann, W. Boehncke, C. Buerger; Frankfurt/Main, Geneva
- P058 (O03/06)**      **Silver-nanoparticles complexed with natural extract of Cornus Mass significantly inhibit inflammation in vitro and in human psoriasis plaques**  
D. Crisan, I. Roman, I. Olenic, M. Crisan, K. Scharffetter-Kochanek, A. Sindrilaru; Ulm, Cluj-Napoca
- P059 (O03/02)**      **IL-29 induces unique chemokines and provokes T-cell infiltration into the skin**  
E. Witte, K. Warszawska, D. Christou, K. Witte, S. Kirsch, H. Volk, W. Sterry, R. Sabat, K. Wolk; Berlin

## Clinical Research

- P060**      **Raman spectroscopy as analytical tool for melanoma research**  
S. Noor, E. Brauchle, K. Schenke-Layland, C. Garbe, C. Busch; Tuebingen, Stuttgart
- P061**      **Specific and sensitive detection of serum autoantibodies against novel recombinant forms of the BP180 ectodomain in patients with bullous pemphigoid and mucous membrane pemphigoid**  
I. Karl, J. Dworschak, C. Probst, L. Komorowski, D. Zillikens, E. Schmidt; Luebeck
- P062**      **Low risk for digital ulcer development in SSc patients with increasing disease duration and lack of Scl-70 autoantibodies**  
N. Hunzelmann, P. Moynadeh, G. Riemekasten, M. Becker, A. Kreuter, U. Mueller-Ladner, F. Meier, G. Wozel, I. Melchers, M. SÁirdy, C. Sunderkoetter, I. Herrgott, K. Graefenstein, G. Zeidler, G. Fierlbeck, C. Pfeiffer, M. Worm, H. Lee, H. Burkhardt, M. Koe; Cologne, Berlin, Oberhausen, Bochum, Bad Nauheim, Dresden, Freiburg, Munich, Muenster, Treuenbrietzen, Tuebingen, Ulm, Frankfurt/Main, Hamburg
- P063**      **Impact of a glycolic acid-containing pH4 water-in-oil emulsion on skin pH**  
B. Behm, M. Kemper, S. Schreml, C. Abels, P. Babilas; Regensburg, Bielefeld
- P064**      **The international Cochrane Skin Group Dermatology Outcomes Research Initiative (ORI)**  
J. Schmitt, S. Deckert, H. Williams; Dresden, Nottingham
- P065**      **Treatment of therapy resistant alopecia areata with fumaric acid esters**  
K. Meier, T. Mehra, E. Mueller-Hermelink, F. Woelbing, M. Roecken, K. Ghoreschi; Tuebingen
- P066**      **Extracorporeal shock waves induce healing of chronic leg ulcers via activation of cell-cycle regulatory proteins and pro-inflammatory cytokines**  
I. Aschermann, S. Venturelli, S. Noor, M. Burkard, A. Stroelin, C. Busch; Tuebingen
- P067**      **Ingenol mebutate for ano-genital warts**  
R. Schopf; Mainz

## Dermato-Endocrinology

- P068**      **Effects of isotretinoin on FoxO1 transcriptional regulation and molecular functions of SZ95 sebocytes**  
Y. Mirdamadi, A. Thielitz, A. Wiede, A. Goihl, C. Zouboulis, D. Reinhold, U. Bommhardt, S. Quist, H. Gollnick; Magdeburg, Dessau
- P069**      **Diabetes mellitus causes multiple dysfunctions in human keratinocytes**  
O. Reichert, G. Neufang, L. Terstegen, F. Staeb, H. Wenck, L. Kolbe, D. Roggenkamp; Hamburg
- P070**      **Effects of relaxin on human fibroblasts and its key role in menopause.**  
E. Makrantonaki, H. Seltmann, A. Hossini, T. Dschietzig, C. Zouboulis; Dessau, Berlin, Bensheim
- P071**      **Tropisetron - an emerging anti-inflammatory and antifibrotic agent**  
A. Stegemann, A. Sindrilaru, K. Loser, C. Albrecht, K. Scharffetter-Kochanek, T. Luger,

M. Boehm; Muenster, Ulm, Duesseldorf

- P072 Ppar deficiency leads to an exaggerated inflammatory response after acute barrier disruption**  
S. Blunder, R. Ruehl, M. Schmuth, S. Dubrac; Innsbruck, Debrecen
- P073 The antimicrobial peptide koebnerisin interferes with UVB-triggered IL-1beta activation in epidermal keratinocytes**  
E. Hattinger, S. Zwicker, S. Koglin, D. Bureik, T. Ruzicka, R. Wolf; Munich
- P074 Analogues of thyroid hormones (KB2115 and 3,3',5-triiodothyroacetic acid) promote human hair growth**  
J. Gherardini, A. Oláh, M. Alam, J. Chăret, M. Bertolini, Y. Uchida, J. Kloepper, M. Soeberdt, C. Abels, R. Paus; Muenster, Bielefeld, Luebeck, Manchester
- P075 Effects of extracellular calcium and 1,25 dihydroxyvitamin D3 on seborrhea and acne**  
C. Zouboulis, H. Seltmann, M. Abdel-Naser, G. Menon, R. Kubba; Dessau, NJ, New Delhi
- P076 (O01/06) Vasoactive intestinal peptide (VIP) is a novel, complex neuroendocrine regulator of human HF melanocyte biology in situ**  
M. Bertolini, M. Baehr, M. Sulk, M. Pretzlaff, Y. Uchida, M. Reibelt, F. Zilio, T. Biró, R. Paus; Muenster, Luebeck, Kagoshima, Debrecen, Manchester
- P077 Comparing patient-reported need for psychooncologic support and doctors' perspective: do they relate to disease severity in melanoma patients?**  
S. Nolte, S. van der Mey, K. Strehl-Schwarz, J. Koester, A. Bender, M. Rose, J. Kruse, E. Peters; Berlin and Giessen, Giessen, Berlin, Burwood, Marburg, Worcester

## Dermatopathology

- P078 Stem cell factors and epigenetic modifications in cutaneous malignant melanoma: EZH2, SOX2, Oct4, H3K4me2 and H3K27me3 immunohistochemical expression patterns of inner tumor mass and tumor invasion front.**  
P. Kampilafkos, M. Melachrinou, J. Lakoumentas, G. Sotiropoulou-Bonikou; K. Scharffetter-Kochanek; Ulm, Patras
- P079 Over-representation of IL-17E producing keratinocytes and IL-17E positive macrophages in the lesional skin of psoriatic patients.**  
N. Brembilla, R. Stalder, M. Fernandez, B. Shafaeddin Schreve, D. Alvarez Martinez, L. Fontao, G. Kaya, C. Chizzolini, W. Boehncke; Geneva
- P080 Immunohistological differentiation of cutaneous acute graft-versus-host disease vs. other severe cutaneous reactions**  
J. Wegner, J. Breitenborn, C. Braun, E. Wagner, A. Kreft, M. Ziemer, M. Mockenhaupt, M. Knothe, S. Metz, R. Meyer, E. von Stebut; Mainz, Leipzig, Freiburg, Jena
- P081 IL-1-related cytokines as potential biomarkers in autoinflammatory skin diseases**  
H. Bonnekoh, M. Maurer, K. Krause; Berlin
- P082 (O03/04) Role of the cholinergic system in cutaneous stress response**  
F. Rommel, B. Raghavan, S. Laux, J. Kruse, U. Gieler, E. Peters; Giessen, Berlin

- P083**      **Biased Th17-cell function in patients with cutaneous T-cell lymphomas: reasons and consequences**  
K. Wolk, H. Mitsui, K. Witte, N. Gulati, D. Humme, E. Witte, M. Beyer, M. Kadin, H. Volk, J. Krueger, W. Sterry, R. Sabat; Berlin, New York, Providence
- P084**      **High prevalence of axial spondyloarthritis in patients with acne inversa**  
S. Schneider-Burrus, E. Witte, G. Diederichs, R. Sabat; Berlin
- P085**      **Stem cells and cancer stem cells of palms and soles**  
B. Schreiber, I. Franke, H. Gollnick, S. Quist; Magdeburg

## Epidemiology

- P086**      **How to assess infant atopic dermatitis in a birth cohort study - experiences from the Ulm SPATZ Health Study**  
(O05/06) J. Genuneit, S. Braig, C. Logan, J. Weiss, D. Rothenbacher; Ulm
- P087**      **Psoriasis and cardiometabolic risk: independent association but distinct genetic architectures**  
M. Koch, H. Baurecht, E. Rodriguez, N. Volks, C. Gieger, L. Heinrich, C. Willenborg, A. Peters, F. Kronenberg, J. Seissler, J. Thiery, W. Rathmann, H. Schunkert, J. Erdmann, J. Barker, J. Elder, U. Mrowietz, M. Weichenthal, S. Schreiber, J. Schmitt, W. Li; Kiel, Neuherberg, Dresden, Luebeck, Innsbruck, Muenchen, Leipzig, Duesseldorf, London, Michigan
- P088**      **Chronic itch in hemodialysis: new data from the German Epidemiological Hemodialysis Itch Study (GEHIS) study**  
(O04/06) M. Weiss, K. Hayani, T. Mettang, U. Tschulena, E. Weisshaar; Heidelberg, Wiesbaden, Bad Homburg
- P089**      **Frequency of malignant tumors in the acute hepatic porphyrias**  
E. Lang, M. Schaefer, H. Schwender, N. Neumann, J. Frank; Duesseldorf
- P090**      **Antihistamine use in patients with chronic hand eczema: an analysis based on data from the German carpe registry**  
C. Apfelbacher, M. Weiss, S. Molin, A. Bauer, V. Mahler, J. Schmitt, P. Elsner, T. Diepgen, E. Weisshaar; Regensburg, Heidelberg, Muenchen, Dresden, Erlangen, Jena
- P091**      **UV dependence - an artifact?**  
S. Schneider, K. Diehl; Mannheim
- P092**      **Comparison of different methods for the assessment of skin aging parameters: Exploratory study in 83 female patients**  
M. Grabenhofer, A. Schmalwieser, H. Maier; Vienna

## Genetics

- P093**      **Analysis of binding characteristics of RNA trans-splicing molecules using a fluorescence-based screening system**  
U. Koller, T. Kocher, J. Seyr, S. Hainzl, E. Mayr, B. Tockner, G. Brachtl, J. Bauer, V. Wally, E. Muraier; Salzburg

- P094**      **Functional characterization of the multifunctional XPG protein during Nucleotide-excision-repair**  
S. Schubert; Goettingen
- P095**      **Establishment of two mouse models for CEDNIK syndrome reveals the pivotal role of SNAP29 in epidermal differentiation**  
S. Schiller, C. Seebode, G. Wieser, S. Goebbels, M. Horowitz, O. Sarig, E. Sprecher, S. Emmert; Goettingen, Tel Aviv
- P096**      **Identification of putative gene networks caused by variation of mitochondrial ATP8 gene in an inflammatory skin disease mouse model**  
J. Bischof, M. Hirose, P. Schilf, Y. Gupta, S. Ibrahim; Luebeck
- P097 (O01/05)**      **Meta-analysis of genome-wide association studies in alopecia areata resolves HLA associations and reveals two new susceptibility loci**  
S. Redler, L. Petukhova, S. Ripke, H. Huang, A. Menelaou, T. Becker, S. Heilmann, T. Yamany, M. Duvic, M. Hordinsky, D. Norris, V. Price, J. Mackay-Wiggan, A. de Jong, G. DeStefano, S. Moebus, M. Boehm, U. Blume-Peytavi, H. Wolff, G. Lutz, R. Kruse, L. Bi; Bonn, New York, Boston, MA, Utrecht, Houston, Minneapolis, Colorado, San Francisco, NY, Essen, Muenster, Berlin, Munich, Wesseling, Paderborn, Hanover, Manhasset NY, Antwerp
- P098**      **Whole-exome sequencing identifies NIPAL4, SPINK5 and FLG genetic variants associated with ichthyosis and episodes of dermatitis**  
D. Kiritsi, M. Valari, P. Fortugno, I. Hausser, L. Lykopoulou, G. Zambruno, L. Bruckner-Tuderman, T. Jakob, C. Has; Freiburg, Athens, Rome, Heidelberg
- P099**      **Targeted resequencing and finemapping identifies low-frequency missense variants in LRRC32 as risk factors for atopic dermatitis**  
E. Rodriguez, J. Manz, B. Petersen, H. Baurecht, G. Mayr, J. Harder, U. Meyer-Hoffert, A. Franke, A. ElSharawy, S. Weidinger; Kiel, Neuherberg
- P100**      **Comparative genomics identifies filaggrin-deficient species of mammals**  
B. Strasser, V. Mlitz, E. Tschachler, L. Eckhart; Vienna

## Health Services Research

- P101**      **Patient preferences for treatment of psoriasis with biologicals: a discrete choice experiment**  
M. Schaarschmidt, C. Kromer, R. Herr, A. Schmieder, S. Goerdts, W. Peitsch; Mannheim

## Immunology

- P102 (O02/06)**      **Mechanistic analysis of CD3-driven T cell functions reveals a CD32a polymorphism associated with melanoma emergence.**  
J. Dreesen, B. Schilling, M. Koldehoff, D. Schadendorf, B. Singer; Essen, Heidelberg
- P103 (O03/01)**      **The Aryl hydrocarbon receptor is up-regulated in murine as well as human systemic lupus erythematosus and seems to be involved in disease progression**  
C. Baumann, E. Hesse, U. Saunders, K. Holz, N. Sucker, L. Klenner, C. Sternemann, A. Jacobi, T. Luger, K. Loser; Muenster

- P104** **Cutaneous RANK-RANKL signaling impairs anti-bacterial immunity but does not affect defense against parasites**  
L. Klenner, J. Ehrchen, N. Sucker, C. Baumann, K. Holz, C. Sternemann, C. Sunderkoetter, S. Beisert, T. Sparwasser, T. Luger, K. Loser; Muenster, Dresden, Hannover
- P105** **PDE4 inhibition as potential treatment of epidermolysis bullosa acquisita**  
H. Koga, A. Recke, G. Vidarsson, D. Zillikens, R. Ludwig; Luebeck, Amsterdam
- P106** **Comparison of mouse models of chemically induced scleroderma: analysis of early inflammatory processes in skin fibrosis by multi-color flow cytometry**  
V. Raker, Y. Kim, N. Lorenz, T. Schmidt, D. Schuppan, K. Steinbrink; Mainz
- P107** **The protective effect of skin microbiota on pathogen infections is dependent on the integrity of the epithelial barrier**  
B. Kraft, I. Wanke, M. Burian, B. Schitteck; Tuebingen
- P108** **Neutrophil granulocytes from individual healthy donors demonstrate a distinct predisposition for extracellular trap formation: introduction and application of a refined method for extracellular trap quantification.**  
J. Hoffmann, K. Schaekel, A. Enk, E. Hadaschik; Heidelberg
- P109** **Pollen and UV-B: A couple causing enhanced inflammasome activation in human primary keratinocytes**  
D. Dittlein, S. Gilles, J. Hiller, C. Schmidt-Weber, J. Durner, H. Behrendt, J. Ring, C. Traidl-Hoffmann; Muenchen, Davos
- P110** **Integrin  $\alpha$ E(CD103) - a modulator of regulatory T cell function in allergic contact hypersensitivity**  
A. Braun, N. Pletz, F. Brunnert, V. Schnabel, B. Richter, K. Zachmann, S. Cording, A. Classen, R. Brans, A. Hamann, J. Huehn, M. Schoen; Goettingen, Goettingen, Osnabrueck, Berlin, Osnabrueck, Braunschweig
- P111** **Induction of regulatory T cells by the antimicrobial peptide human beta-defensin 3**  
A. Bruhs, T. Schwarz, A. Schwarz; Kiel
- P112** **GM-CSF regulates pro-inflammatory and immunomodulatory activities of Mesenchymal Stromal Cells**  
R. Ferrer, N. Lohmann, I. Forstreuter, J. Simon, S. Franz; Leipzig, Leipzig and Dresden
- P113** **The tripeptide KdPT and its chemically modified derivative WOL074-019 ameliorate ongoing inflammation in the skin and the gut**  
C. Sternemann, M. Soeberdt, C. Baumann, L. Klenner, K. Holz, N. Sucker, C. Abels, T. Luger, K. Loser; Muenster, Bielefeld
- P114** **Cutaneous innate immune sensing of TLR2/6 ligands suppresses T cell immunity by inducing myeloid-derived suppressor cells**  
Y. Skabytska, F. Woelbing, C. Guenther, M. Koeberle, S. Kaesler, E. Guenova, T. Volz, T. Biedermann; Tuebingen, Dresden, Munich, Zurich
- P115** **Molecular mechanisms and functional consequences of blood monocyte recruitment and macrophage activation in tissue repair and fibrosis**  
N. Do, S. Willenborg, S. Eming; Cologne
- P116** **9-cis-retinoic acid modulates dendritic cell differentiation to generate a Treg inducing phenotype**  
J. Scheuermann, L. Kraus, D. Frenzel, J. Weiss; Ulm



- P117**      **Wound healing defect of CD18<sup>-/-</sup> mice due to impaired beta2 integrin-dependent activation of the NADPH oxidase in macrophages**  
A. Kuegler, S. Schatz, S. Vander Beken, D. Jiang, T. Peters, A. Rueck, M. Wlaschek, B. de Geest, P. Hawkins, K. Scharffetter-Kochanek, A. Sindrilaru; Ulm, Ghent, Cambridge
- P118**      **Mastcells are heterogeneous**  
P. Valentin, O. Schmetzer, M. Maurer; Berlin
- P119**      **Human monocyte-derived dendritic cells stimulated with specific non-digestible oligosaccharides mimicking the functionality of breast milk oligosaccharides induce CD4<sup>+</sup>Foxp3<sup>high</sup> T cells**  
S. Lehmann, J. Hiller, J. van Bergenhenegouwen, L. Knippels, J. Garssen, C. Traidl-Hoffmann; Augsburg, Munich, Utrecht, Davos
- P120**      **Myeloid cell-restricted Insulin/IGF-1 signaling controls UV light-induced skin inflammation**  
J. Knuever, S. Willenborg, M. Akyuz, C. Niessen, J. Bruening, S. Eming; Cologne
- P121**      **Analysis of the antigen-presenting cell compartment in pemphigus vulgaris**  
T. Hennerici, T. Schmidt, M. Seipelt, B. Tackenberg, M. Hertl, R. Eming; Marburg
- P122**      **B-cell independent functions of T cells during immune-complex induced neutrophil-dependent inflammation**  
K. Bieber, M. Witte, K. Kalies, C. Kauderer, R. Ludwig; Luebeck
- P123**      **Lifespan and immune senescence in UCP2-deficient mice**  
M. Hirose, P. Schilf, D. Zillikens, S. Ibrahim; Luebeck
- P124**  
**(O03/05)**      **Characterization of circulating CD4<sup>+</sup>CXCR5<sup>+</sup> follicular helper T cells in pemphigus vulgaris**  
R. Pollmann, T. Schmidt, C. Moebis, M. Seipelt, B. Tackenberg, W. Pfuetzner, M. Hertl, K. Ghoreschi, R. Eming; Marburg, Tuebingen
- P125**  
**(O04/03)**      **Immune complexes recruit proinflammatory human slanDCs in vitro and in vivo**  
F. Olaru, T. Doebel, A. Lonsdorf, A. Enk, K. Schaekel; Heidelberg
- P126**      **Kinome profiling: a closer look on human regulatory T cells.**  
J. Mazur, A. Gerold-Ay, J. Scholma, S. Hahn, J. Joore, H. Jonuleit, A. Tuetttenberg; Mainz, Enschede, Utrecht
- P127**      **Neutrophil extracellular trap-derived cathelicidin antimicrobial peptide: contribution to macrophage host defense**  
A. Stephan, M. Fabri; Cologne
- P128**  
**(O04/05)**      **The role of the mitochondrial genome in autoimmune blistering skin diseases**  
P. Schilf, M. Hirose, E. Schmidt, S. Ibrahim; Luebeck
- P129**      **Hydroxyethyl starch nanocapsules as a potent drug-delivery system for targeted cancer immunotherapy**  
M. Domogalla, M. Steinmann, S. Frick, F. Wurm, V. Mailaender, K. Landfester, K. Steinbrink; Mainz
- P130**      **T lymphocytes from patients with lichen planus (LP) recognize the NH<sub>2</sub>- and COOH-termini of bullous pemphigoid antigen 180 (BP180) ectodomain**  
T. Schmidt, V. Eubel, R. Eming, M. Hertl; Marburg

- P131**      **Regulation of GM-CSF production by human T helper cells**  
C. Zielinski; Berlin
- P132**      **Identification of heterogeneous human Treg cell subsets with implications in the pathogenesis of Acne inversa**  
C. Zielinski; Berlin
- P133**      **RNase 7 promotes the uptake of bacterial and self-DNA and production of IFN- $\gamma$  by human plasmacytoid dendritic cells**  
V. Kopfnagel, S. Wagenknecht, J. Harder, M. Kleine, T. Werfel; Hannover, Kiel
- P134 (O03/03)**      **Enhanced MHC class I molecule expression on Merkel cell carcinoma by HDAC inhibitors**  
C. Ritter, K. Fan, R. Houben, D. Schrama, J. Becker; Essen, Graz, Wuerzburg
- P135**      **Targeting tumor-associated M2-macrophages using nanoparticles to improve cancer immunotherapy**  
M. Weilbaecher, D. Bamberger, D. Schuppan, P. Wich, A. Tuettenberg; Mainz
- P136 (O02/04)**      **Normal steady-state, but increased cutaneous immune responses in barrier-disrupted filaggrin/hornerin (FLG/HRNR)-deficient mice**  
S. Rahrig, J. Petersen, B. Brauns, V. Lorenz, T. Buhl, S. Weidinger, M. Mempel, M. Schoen, A. Braun; Goettingen, Kiel, Goettingen and Osnabrueck
- P137**      **The retinoid-related orphan receptor alpha is essential for the end-stage effector phase of experimental epidermolysis bullosa acquisita**  
H. Sadeghi, Y. Gupta, S. Moeller, U. Samavedam, M. Behnen, S. Mueller, K. Kalies, A. de Castro Marques, A. Recke, E. Schmidt, D. Zillikens, T. Laskay, J. Mariani, S. Ibrahim, R. Ludwig; Luebeck, Paris
- P138**      **Radiosensitive cells determine clinical disease manifestations in the effector phase of epidermolysis bullosa acquisita**  
H. Iwata, M. Witte, U. Samavedam, Y. Gupta, A. Shimizu, A. Ishiko, T. Schroeder, K. Seeger, M. Dahlke, D. Rades, D. Zillikens, R. Ludwig; Luebeck, Tokyo
- P139**      **Prevalence and functional characteristics of pemphigus and pemphigoid autoantibodies in the general population**  
W. Pruessmann, J. Pruessmann, H. Koga, A. Recke, H. Iwata, D. Juhl, S. Goerg, R. Henschler, T. Hashimoto, E. Schmidt, D. Zillikens, S. Ibrahim, R. Ludwig; Luebeck, Munich, Kurume
- P140 (O06/04)**      **Curcumin protects from inflammatory autoimmune disease by suppressing IL-12/IL-23p40**  
J. Brueck, I. Glocova, J. Geisel, J. Holstein, M. Roecken, A. Yazdi, K. Ghoreschi; Tuebingen
- P141**      **Does human skin might contain macrophage progenitors?**  
J. Gherardini, M. Bertolini, J. ChÃ©ret, M. Alam, Y. Uchida, I. Burgoa, R. Paus; Muenster, Kagoshima, San Sebastian, Manchester
- P142**      **Blocking the activating Fc gamma RIV enhances neutrophil extravasation into the skin in autoantibody-induced tissue injury**  
J. Kloepper, M. Pieper, F. Nimmerjahn, D. Zillikens, P. Koenig, S. Ibrahim, R. Ludwig; Luebeck, Erlangen
- P143 (O06/06)**      **Contribution of IgE Auto-Antibodies to the Pathogenesis of Bullous Pemphigoid**  
P. Freire, N. Reiter, P. Heil, G. Stingl; Vienna

- P144**      **Prevalence of laminin 332-specific autoantibodies, detected by a novel enzyme-linked immunosorbent assay, in patients with mucous membrane pemphigoid**  
R. Chiorean, O. Virtic, M. Mustafa, S. Danescu, A. Baican, T. Hashimoto, M. Koch, K. Yancey, C. Sitaru; Freiburg, Cluj-Napoca, Kurume, Cologne, Dallas
- P145**      **RAGE signaling drives the initiation and maintenance of the psoriatic inflammation**  
K. Tarnanidis, M. Reith, J. Polz, W. Peitsch, V. Umansky, J. Utikal, A. Enk, C. Gebhardt; Heidelberg, Mannheim
- P146**      **IgE reactivity against the NC16A domain of BP180 in bullous pemphigoid: influence of total IgE serum levels**  
N. van Beek, N. Schwemm, F. Schulze, A. Recke, D. Zillikens, E. Schmidt; Luebeck
- P147**      **Interaction of corynebacteria with skin-derived antimicrobial peptides**  
S. Walter, F. Rademacher, N. Kobinger, L. Schroeder, R. Glaeser, J. Harder; Kiel
- P148 (O04/02)**      **A new mucosal vaccine targets a distinct dendritic cell subset to convert a tolerogenic into a protective immune response against Chlamydia trachomatis**  
G. Sary, A. Olive, A. Radovic-Moreno, D. Gondek, D. Alvarez, M. Perro, O. Farokhzad, R. Langer, M. Starnbach, U. von Andrian; Boston, Cambridge
- P149 (O02/03)**      **BAY61-3606, a novel spleen tyrosine kinase inhibitor, attenuates organ-specific, autoantibody-induced tissue injury**  
N. Mitschker, U. Samavedam, D. Zillikens, R. Ludwig; Luebeck
- P150 (O05/02)**      **Deregulated production of reactive oxygen species by an age-dependently increased T cell subset leads to autoreactivity and immunosenescence**  
S. Koellner, J. Scheuermann, S. Vander Beken, A. Sindrilaru, K. Scharffetter-Kochanek, T. Peters; Ulm
- P151**      **Interleukin-10 receptor-1 expression in monocyte-derived antigen-presenting cell populations: dendritic cells partially escape from IL-10 inhibitory mechanisms**  
K. Wolk, S. von Haehling, K. Witte, C. Hoeflich, S. Kunz, B. Gruenberg, W. Doecke, K. Asadullah, W. Sterry, H. Volk, R. Sabat; Berlin
- P152**      **Defective removal of ribonucleotides from DNA promotes systemic lupus erythematosus**  
C. Guenther, B. Kind, M. Reijns, N. Berndt, M. Martinez-Bueno, C. Wolf, V. Tuengler, O. Chara, S. Blum, C. Krug, F. Schmidt, S. Kretschmer, S. Koss, T. Witte, M. Aringer, A. Kuhn, I. Melchers, D. Alexopoulou, K. Conrad, A. Dahl, A. Roers, M. Alarcon-Rique; Dresden, Edinburgh, Granada, Hannover, Freiburg, Muenster
- P153**      **Secukinumab decreases inflammation as measured by a biomarker hsCRP in subjects with moderate-to-severe plaque psoriasis and concomitant psoriatic arthritis: subanalyses from two phase 3 studies**  
S. Philipp, A. Gottlieb, R. Langley, B. Sigurgeirsson, A. Blauvelt, Y. Gong, C. Papavassiliis, S. Mpofu; Berlin, Boston, Halifax, Reykjavik, Portland, Shanghai, Basel

## Infectious Diseases

- P154**      **The skin secretome of ectodermal dysplasia patients contains a reduced number of immune defense mediators**  
M. Burian, A. Velic, K. Matic, Y. Tiffert, C. Naumer, M. Krohn, M. Berneburg, A. Yazdi, B. Macek, B. Schitteck; Tuebingen, Zwingenberg, Regensburg
- P155 (O05/05)**      **Deficiency of mannose-binding lectin (MBL) negatively affects cutaneous leishmaniasis in naturally resistant mice**  
A. Schermann, B. Lorenz, E. von Stebut; Mainz
- P156**      **Post-septic immune-suppression following Gram positive sepsis is mediated by TLR dependent induction of myeloid derived suppressor cells**  
Y. Skabytska, T. Biedermann, M. Koeberle; Muenchen, Tuebingen
- P157**      **Isolation of parasitophorous vacuoles from L. major-infected phagocytes**  
T. Twelkmeyer, S. Tenzer, E. von Stebut; Mainz
- P158**      **Role of mast cells during Leishmania (L.) major infections depends on genetic background.**  
K. Dietze-Schwonberg, S. Lopez Kostka, M. Stassen, K. Kautz-Neu, E. von Stebut; Mainz
- P159**      **Singlet oxygen eliminates Leishmania major parasites generated by a new class of photosensitizer**  
M. Schmid, A. Hurst, K. Stricker, T. Mayer, F. Gruenberger, A. Spaeth, S. Thalhauser, W. Baeumler, T. Maisch, U. Ritter; Regensburg
- P160 (O06/02)**      **Lack of IL-10 signaling in dendritic cells enhances anti-Leishmania major immunity**  
M. Girard-Madoux, K. Kautz-Neu, B. Lorenz, J. Ober-Bloebaum, E. von Stebut, B. Clausen; Rotterdam, Mainz
- P161**      **Positive and negative influence of Staphylococcus aureus infection on Tight Junction functionality**  
K. Baesler, M. Galliano, P. Houdek, B. Guiraud, S. Vidal-y-Sy, E. Wladykowski, H. Rohde, J. Kaefer, S. Bessou-Touya, H. Duplan, J. Brandner; Hamburg, Toulouse
- P162**      **Leishmania major induces distinct gene expression patterns in neutrophil granulocytes from resistant and susceptible mice**  
G. Herrnstadt, N. Muenck, M. Belz, J. Roth, C. Sunderkoetter, J. Ehrchen; Muenster
- P163**      **Laminin-derived peptides are involved in inflammation, chronic wounds and skin infections**  
I. Aschermann, W. Kempf, G. Klein, H. Kalbacher, M. Schaller, C. Garbe, B. Schitteck; Tuebingen, Munich

## Pharmacology

- P164**      **Dexpanthenol modulates skin regeneration and gene regulation in a novel standardized human three-dimensional skin wound healing model using non-sequential fractional ultrapulsed CO2 laser treatments**  
Y. Marquardt, P. Amann, R. Heise, K. Czaja, T. Steiner, H. Merk, C. Skazik, J. Baron; Aachen

- P165**      **Induction of the progeroid/cancer prone XP-like phenotype by a medical drug is mediated via reversible downregulation of DNA repair.**  
S. Giovannini, Y. Kamenisch, N. Kobert, L. Weibel, L. French, M. Roecken, M. Berneburg; Regensburg, Zurich, Tuebingen

## Photobiology

- P166**      **UVA irradiation of senescent fibroblasts epigenetically unlock anti-apoptotic GDF15 expression via interleukin 6-dependent promoter demethylation in melanoma cells enhancing their survival**  
A. Basu, V. Farsam, D. Kletsas, B. Schumacher, M. Wlaschek, K. Scharffetter-Kochanek; Ulm, Athens, Cologne
- P167**      **Lipid oxidation patterns and -kinetics under senescence-promoting stress in keratinocytes**  
M. Narzt, I. Nagelreiter, S. Karner, J. Grillari, K. Figlak, M. Filzwieser, V. Bochkov, E. Tschachler, F. Gruber; Vienna
- P168**      **Autophagy deficient mouse melanocytes have a senescence associated secretory phenotype (SASP) and enhanced ER stress after UV exposure.**  
C. Ni, M. Narzt, I. Nagelreiter, L. Larue, H. Rossiter, E. Tschachler, F. Gruber; Vienna, Shanghai, Orsay
- P169**      **Infrared radiation reduces UVB-induced apoptosis in normal human melanocytes via modification of apoptosis-related proteins**  
S. Kimeswenger, D. Foedinger, A. Schwarz, H. Pehamberger, C. Jantschitsch; Vienna, Kiel
- P170**      **Leukocyte-derived S100-'alarmins' are UVB-dependent therapeutic markers in psoriasis**  
A. Batycka-Baran, E. Hattinger, S. Zwicker, B. Summer, J. Szepietowski, Z. Howard, T. Ruzicka, J. Prinz, R. Wolf; Munich, Wroclaw, Frederick

## Pruritus

- P171**      **4-1BB signaling in the skin spontaneously induces severe inflammation and chronic itch**  
K. Holz, V. Kupas, L. Klenner, N. Sucker, C. Baumann, C. Sternemann, M. Maurer, S. Beissert, T. Luger, S. Staender, K. Loser; Muenster, Berlin, Dresden
- P172**      **Differences in neurosensory reactions in chronic pruritus with cutaneous and non-cutaneous causes after stimulation with cowhage, capsaicin or histamine**  
T. Lotts, J. Englbrecht, C. da Silva, T. Dreyer, A. Cremer, C. Wempe, E. Pogatzki-Zahn, S. Staender; Muenster
- P173**      **Pruritogen Response in single and combinatorial TRP-channel KO mice indicates Interactions of TRP-V1, -V4, -A1, and -M8**  
M. Sulk, M. Langner, C. Kempkes, R. Manlapaz, F. Cevikbas, T. Akiyama, T. Buhl, J. Buddenkotte, R. Paus, D. Julius, E. Carstens, M. Steinhoff; Muenster, San Francisco, Davis, Goettingen, Dublin

- P174**      **Characterization of itch inducers in skin of healthy subjects and atopic dermatitis patients**  
S. Lehmann, T. Hawro, M. Maurer, M. Metz; Berlin
- P175**      **Itch induced by cowhage is increased and altered at sites of skin inflammation**  
F. André, J. Fluhr, M. Metz, M. Maurer; Berlin
- P176**      **Anxiety about body symptoms increases perception of itch**  
T. Hawro, S. Lehmann, M. Maurer, M. Metz; Berlin

## Tumor Biology

- P177 (O01/04)**      **Dual immune checkpoint blockage delays GNAQ-driven tumor growth in an autologous murine uveal melanoma model.**  
B. Schilling, T. Schneider, I. Moeller, A. Sucker, A. Paschen, D. Schadendorf, K. Griewank; Essen, Heidelberg
- P178**      **Alpha-melanocyte-stimulating hormone reduces the expansion of tumor-promoting myeloid-derived suppressor cells in mice and humans**  
N. Sucker, C. Weishaupt, L. Klenner, C. Baumann, K. Holz, T. Luger, K. Loser; Muenster
- P179**      **Dimethylfumarate inhibits colon carcinoma cell proliferation: evidence for cell cycle arrest, apoptosis and autophagy**  
I. Kaluzki, I. Hrgovic, M. Doll, J. Kleemann, R. Kaufmann, S. Kippenberger, M. Meissner; Frankfurt/Main
- P180**      **Induction of vascular adhesion molecules in melanoma metastases results in significantly increased infiltration of activated cytotoxic T lymphocytes**  
C. Weishaupt, T. Luger, R. Fuhlbrigge, T. Goerge, K. Loser; Muenster, Boston
- P181**      **The BRAF inhibitor LGX818 (encorafenib) induces endoplasmic reticulum stress and sensitizes NRAS-mutant melanoma cells to the MEK inhibitor binimetinib**  
H. Niessner, I. Wanke, T. Sinnberg, D. Beck, B. Schitteck, D. Schadendorf, S. Beissert, D. Kulms, C. Garbe, F. Meier; Tuebingen, Essen, Dresden
- P182**      **Inhibition of the PI3K pathway with buparlisib (BKM120) is a suitable strategy to overcome therapy resistance in melanoma-derived brain metastasis in vitro and in vivo**  
H. Niessner, J. Schmitz, A. Schmid, T. Sinnberg, G. Tabatabai, B. Weide, C. Garbe, L. Quintanilla-Fend, S. Beissert, D. Kulms, B. Pichler, F. Meier; Tuebingen
- P183**      **The chemosensitizing activity of the mTOR inhibitor temsirolimus in metastatic melanoma involves DKK1**  
H. Niessner, D. Beck, K. Krieg, T. Sinnberg, C. Busch, J. Gogel, M. Bonin, K. Smalley, C. Garbe, F. Meier; Tuebingen, Tampa, FL, Dresden
- P184**      **Epigenetic impacts of ascorbate on human metastatic melanoma cells**  
S. Venturelli, T. Sinnberg, A. Berger, S. Noor, M. Levesque, A. Boecker, H. Niessner, U. Lauer, M. Bitzer, C. Garbe, C. Busch; Tuebingen, Zurich, Hamburg
- P185**      **Processing and nuclear translocation of NF-B2 in human melanoma cells**  
N. Pletz, M. Schoen; Goettingen

- P186** **Tumor Protein P53 Inducible Nuclear Protein 2 is a tumour suppressor in melanoma**  
A. Bhattacharya, U. Schmitz, O. Wolkenhauer, J. C. Simon, M. Kunz; Leipzig, Rostock
- P187** **Immune-cell poor Hgf-Cdk4 mouse melanomas benefit from antibody mediated PD-1 blockade after targeted activation of the type I IFN system**  
T. Bald, J. Landsberg, D. Lopez, M. Renn, N. Glodde, P. Jansen, E. Gaffal, G. Joensson, M. Hoelzel, T. Tueting; Bonn, Lund
- P188 (O05/04)** **Contribution of mast cell-derived VEGF to tumor growth**  
A. Rabenhorst, S. Leja, A. Florin, L. Heukamp, R. Ullrich, A. Foerster, A. Roers, R. Buettner, K. Hartmann; Cologne, Dresden
- P189** **Nrf2 activation promotes survival of pre-malignant keratinocytes through induction of metabolic pathways**  
F. Rolfs, M. Huber, A. Kuehne, S. Smola, N. Zamboni, R. Dummer, D. Beer, D. Hohl, S. Werner, M. Schaefer; Zurich, Lausanne, Homburg
- P190 (O02/02)** **Distinct functions of epidermis- and myeloid cell-specific VEGF-A in human papillomavirus type 8-mediated tumorigenesis**  
X. Ding, T. Lucas, G. Marcuzzi, H. Pfister, S. Eming; Cologne
- P191** **Insulin resistance as a pathomechanism in malignant melanoma?**  
F. Toussaint, S. Diehl, V. Lang, W. Boehncke, M. Meissner, R. Kaufmann, C. Buerger; Frankfurt/Main, Geneva
- P192** **ATR-Chk1-Wee1 pathway controls melanoma cell cycle in G2-M and G0-G1**  
J. Vera, Y. Raatz, T. Kottek, A. Bhattacharya, J. Simon, M. Kunz; Erlangen, Leipzig
- P193** **Senescent-associated secretion of Chemerin from human dermal fibroblasts enhances skin squamous cell carcinoma progression**  
V. Farsam, A. Basu, T. Lucas, S. Kochanek, M. Wlaschek, K. Scharffetter-Kochanek; Ulm
- P194** **Voriconazole does not affect the viability of human keratinocytes treated with UV-A, -B or retinoids in vitro and in organotypic skin models**  
R. Mirzaei, M. Mildner, F. Thalhammer, A. Geusau, A. Jalili; Vienna
- P195** **The Ratio of Mcl-1 and Noxa determines resistance to the BH3 agonist ABT737 in squamous cell carcinoma of the skin**  
P. Geserick, J. Wang, M. Feoktistova, M. Leverkus; Mannheim
- P196 (O06/03)** **RIPK3 promoter methylation confers necroptosis resistance to malignant melanoma**  
P. Geserick, J. Wang, R. Schilling, S. Horn, M. Feoktistova, M. Leverkus; Mannheim
- P197** **Targeting Rab27a to suppress melanoma proliferation and invasion**  
K. Beaumont, D. Sharp, W. Weninger, N. Haass; Sydney, Brisbane
- P198** **Melanoma tumor sub-populations are defined by MITF expression, and exhibit enhanced proliferation and characteristics of an EMT**  
C. Tonnessen, K. Beaumont, D. Hill, A. Anfosso, S. Daignault, M. Fane, R. Jurek, A. Smith, W. Weninger, N. Haass; Brisbane, Sydney
- P199** **Melanoma cells in G1 phase escape proteasome inhibitor cytotoxicity**  
D. Hill, K. Beaumont, S. Daignault, A. Anfosso, D. Sharp, B. Gabrielli, P. Lovat, W. Weninger, N. Haass; Sydney, Brisbane, Newcastle upon Tyne

- P200**      **Impact of neurotrophin receptor signalling on melanoma cell migration in human and murine melanoma cell lines**  
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