



PROGRAM

January 22–24, 2015
Essen, Germany

1st INTERNATIONAL SYMPOSIUM

**on Tumor-Host Interaction
in Head and Neck Cancer**

in conjunction with the

5th ANNUAL MEETING

**on Experimental and Translational Head
and Neck Oncology**



www.headandneck2015.org

Auspices

German Cancer Aid

Deutsche Krebshilfe e. V. (Bonn/DE)



European Head and Neck Society (Brussels/BE)



German Society of Oto-Rhino-Laryngology,
Head and Neck Surgery (Bonn/DE)



German National Academy of Sciences Leopoldina
Nationale Akademie der Wissenschaften Leopoldina



Westdeutsches Tumorzentrum

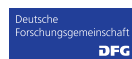
West German Cancer Center (Essen/DE)



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State at printing

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Imprint

Conference Organization

Conventus Congressmanagement & Marketing GmbH
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ATLANTIC Congress Hotel Essen
Norbertstraße 2a
45131 Essen, Germany
www.atlantic-essen.de

Date

January 22–24, 2015

Conference Website

www.headandneck2015.org



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Stephan Lang
University Hospital Essen
Department of Oto-Rhino-Laryngology, Head and Neck Surgery

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University Hospital Leipzig
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University Medical Center Schleswig-Holstein, Campus Lübeck
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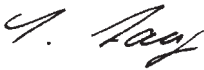
Dear Colleagues and Friends,

It is a great pleasure to invite you to the 1st International Symposium on Tumor-Host Interaction in Head and Neck Cancer. The symposium will be held from 22 to 24 January 2015 in Essen, Germany, and continues the series of annual meetings on experimental head and neck oncology in collaboration with the Working Group Oncology of the German Society of Oto-Rhino-Laryngology.

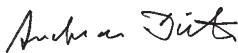
This time we will gather international experts on an emerging and relevant topic in head and neck oncology in order to exchange and discuss the most recent developments in the field. With the help of our international advisory board we compiled a state-of-the-art program and updated information will be provided via our website. The conference will bring together young and senior scientists to encourage a lively exchange. Innovative topics in Head and Neck Oncology will be presented and discussed by renowned invited speakers from all over the world. We are convinced that this meeting will help to intensify scientific cooperation in the future.

The symposium will be held in Essen, the center of the Rhine-Ruhr area, which will serve as a wonderful venue for this conference and guarantees both, high-level scientific discussions plus relaxation and exploration of the history of the Ruhr area. We look forward to sharing with you interesting, comprehensive and enjoyable days in Essen! On behalf of the organizing committee, we would be pleased if you would follow our invitation.

Yours sincerely,



Stephan Lang
Conference Chair



Andreas Dietz
Conference Co-Chair



Barbara Wollenberg
Conference Co-Chair



Sven Brandau
Program Chair

Registration

Registration for the conference is required. Please register online at www.headandneck2015.org. A prior registration is preferred. Nevertheless, registration on site is still possible.

Registration Fees

Regular participant	EUR 300
Student*	EUR 150
Social evening, January 23, 2015	included

* Please provide a student confirmation via fax to Conventus +49 3641 31 16-244, or mail to registration@conventus.de, indicating Head and Neck 2015.

Payment and Confirmation of Payment

An invoice or confirmation of registration will be sent to you via electronic mail within 14 days. This invoice is a valid invoice which may be submitted to the local tax and revenue office. All fees are due upon receipt of invoice/registration confirmation. Payment transfers must include participant's name and invoice number. Payment is also accepted by credit card (Master-/Eurocard, American Express, VISA). Should you transfer your invoice amount within 10 days of the start of the conference, please present your transfer remittance slip onsite.

The registration fees include admission to all scientific sessions and access to the industrial exhibition, opening ceremony, poster sessions, social evening as well as conference materials.

General Terms and Conditions

Please find our general terms and conditions at www.headandneck2015.org.

Certificate of Attendance

Certificates of attendance will be available on the last day of the conference at the check-in desk.

CME Points

Certification of the medical association of North Rhine is requested.

Name Badge

Please wear your name badge during all conference events, including the networking activities. Admission to scientific sessions and to the industrial exhibition is restricted to participants wearing their badge. Participants will receive their name badge when collecting their conference documents at the check-in desk.

Evaluation

Please take a few moments to fill out the evaluation form to help us refine and improve our programs and conference quality. You can hand in your evaluation form at the check-in desk.

Service for Impaired People

All rooms are accessible by wheelchair.

Internet Access

WIFI is available for free throughout the whole conference area. Vouchers are available at the check-in desk.

Publication of Abstracts

All abstracts of poster and oral presentations will be published in a digital abstract book via Elsevier.

Prizes

Poster Prizes

Two outstanding posters, one national and one international poster, will be awarded during the session on Thursday, January 22, 2015.

Annual award of the Working Group Oncology

This prize is awarded by the Working Group Oncology of the German Society of Oto-Rhino-Laryngology, Head and Neck Surgery.

Thursday, January 22, 2015

Opening Session

We kindly invite you to our opening ceremony at the ATLANTIC Congress Hotel Essen. Later on, we hope for your participation at the poster sessions with several snacks and beverages.

Begin 13⁰⁰ hrs
Place Room 03+04
Fee Included in conference fee



© ATLANTIC Congress Hotel Essen

Poster Session Wine and Cheese

The poster sessions provide an excellent opportunity for interactive presentation and many discussions in the field of head and neck cancer. The highlight for the evening: posters will be presented while wine and cheese is being served.

Begin 19⁰⁰ hrs
Place Foyer
Fee Free of charge



© ATLANTIC Congress Hotel Essen

Friday, January 23, 2015

Leopoldina Lecture – German National Academy of Sciences Leopoldina (held in German language)

We warmly welcome you to our public lecture. Join us for an exciting talk about innovative strategies to fight cancer.

Begin 17⁰⁰ hrs
Place Room 03+04
Fee Free of charge



Leopoldina
Nationale Akademie
der Wissenschaften

Social Evening

Enjoy a memorable evening at the famous Casino Restaurant at Zeche Zollverein. The historical atmosphere of mine combined with industrial architecture and exclusive gastronomy will make this evening unforgettable. Join us for a unique evening to meet and greet with friends and colleagues.

Begin 19³⁰ hrs, Guided Tour starts 18³⁰ hrs
Place Casino Zeche Zollverein • Schacht XII/Halle A9
Gelsenkirchener Straße 181 • 45309 Essen

Shuttle A shuttle will be provided at 18⁰⁰ hrs from the ATLANTIC Congress Hotel.
Fee Included in conference fee



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Exhibitors

The following exhibitors are looking forward to welcoming you and to present their comprehensive range of innovative products:

Andreas Fahl Medizintechnik-Vertrieb GmbH (Cologne/DE)

Atos Medical GmbH (Troisdorf/DE)

eBioscience, an Affymetrix Company (Vienna/AT)

HEIMOMED Heinze GmbH & Co. KG (Kerpen/DE)

KARL STORZ GmbH & Co. KG (Tuttlingen/DE)

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Olympus Deutschland GmbH (Hamburg/DE)

Roche Pharma AG (Grenzach-Wyhlen/DE)

Servona GmbH (Troisdorf/DE)

Media Cooperations

We would like to thank the following media partners for their great support:

Elsevier (New York, NY/US)

Oral Oncology

Frontiers Media SA (Lausanne/CH)

Frontiers in Oncology

OmniMed Verlagsgesellschaft mbH (Hamburg/DE)

forum HNO

S. Karger AG (Basel/CH)

*Journal for Oto-Rhino-Laryngology, Head and Neck Surgery
Oncology*

Springer Medizin DE (Heidelberg, Berlin/DE)

HNO Nachrichten

Trillium GmbH (Grafrath/DE)

krebsmedizin

13⁰⁰–13³⁰

Room 03+04

Opening Session

Welcome note of the conference chair

S. Lang (Essen/DE)

Welcome note of the dean of the University Hospital Essen

J. Buer (Essen/DE)

Welcome note of the program chair

S. Brandau (Essen/DE)

Welcome note of the conference co-chair

A. Dietz (Leipzig/DE)

Welcome note – German National Academy of Sciences Leopoldina

H.-P. Zenner, Member of the Leopoldina (Tübingen/DE)

Board, German National Academy of Sciences Leopoldina

Präsidium der Nationalen Akademie der Wissenschaften Leopoldina

13³⁰–14⁴⁵

Room 03+04

Session 1 – The interplay of the tumor host with anti-cancer therapy

H.-P. Zenner (Tübingen/DE), T. K. Hoffmann (Ulm/DE)

13³⁰

1

Invited lecture: Dying cell clearance and its impact on the outcome of cancer radiotherapy

K. Lauber (Munich/DE)

14⁰⁰

2

Effects of sorafenib treatment on HNSCC cells in combination with cisplatinbased-chemoradiation

N. Möckelmann, M. Kriegs, E. Dikomey, R. Knecht (Hamburg/DE)

14¹⁵

3

Identification of anti-apoptotic caspase 9b in head and neck squamous cell carcinoma

R. Maushagen, R. Pries, B. Wollenberg (Lübeck/DE)

14³⁰

4

Immune response evaluation to curative conventional therapy: the IRECT trial

S. Laban (Ulm/DE), D. Atanackovic, T. Lütken (Salt Lake City, UT/US)

R. Lotfi, J. Mytilineos, P. Schuler, J. Veit, T. K. Hoffmann (Ulm/DE)

14⁴⁵–15¹⁵

Room 01+02

Break and Industrial Exhibition

- 15¹⁵–17¹⁵ Session 2 – Mechanisms of tumor progression and metastasis
 Room 03+04 J. Heß (Heidelberg/DE), B. Wollenberg (Lübeck/DE)
- 15¹⁵
 5 Invited lecture: Role and regulation of nanog in head and neck cancer
 Q. Pan (Columbus, OH/US)
- 15⁴⁵
 6 CD98 identifies a clinically relevant subpopulation of head and neck squamous cell carcinoma cells with stem cell properties
S. R. Martens-de Kemp, M. M. Rietbergen, A. Brink
 M. Stigter-van Walsum, E. Bloemena
 W. N. van Wieringen (Amsterdam/NL), M. Slijper (Utrecht/NL)
 B. J. M. Braakhuis, C. R. Leemans, R. H. Brakenhoff (Amsterdam/NL)
- 16⁰⁰
 7 Tumor budding as a prognostic marker in head and neck cancer: a systematic review
 A. Almangush (Helsinki/FI)
- 16¹⁵
 8 Therapy resistance in HNSCC – enhanced levels of the cytoprotective protein survivin is mediated by down-regulation of microRNA-542-3p
 D. Gößwein (Mainz/DE), S. Bäcker, S. Schlesiger, M. Epple (Essen/DE)
 D. Wunsch (Mainz/DE), B. Wollenberg (Lübeck/DE)
 R. Stauber (Mainz/DE), S. Knauer (Essen/DE)
- 16³⁰
 9 Matrix remodeling in head and neck squamous cell carcinoma
J. Dudas (Innsbruck/AT), A. Fullar (Budapest/HU)
 M. Bitsche, A. Romani (Innsbruck/AT), I. Kovalszky (Budapest/HU)
 H. Riechelmann (Innsbruck/AT)
- 16⁴⁵
 10 Kallikrein-related peptidase 6 regulates epithelial-to-mesenchymal transition and serves as prognostic biomarker for head and neck squamous cell carcinoma patients
C. Schrader, M. Kolb, K. Zaoui, C. Flechtenmacher, N. Grabe
 K.-J. Weber, P. K. Plinkert, J. Heß (Heidelberg/DE)
- 17⁰⁰
 11 Mechanism of perineural invasion in head and neck cancer
 S. W. Kim (Pittsburgh, PA/US)
- 17¹⁵–17⁴⁵ Break and Industrial Exhibition
 Room 01+02

- 1745–1900
Room 03+04 **Session 3 – Use of high-throughput and omics technology to understand tumor-host interaction**
C. R. Leemans (Amsterdam/NL), W. Golusinski (Poznan/PL)
- 1745
12 Invited lecture: High-throughput functional genomics – an emerging field in head and neck cancer research
R. H. Brakenhoff (Amsterdam/NL)
- 1815
13 No molecular evidence for the role of the genetic background of the host in explaining lymph node metastasis in head and neck cancer
S. Mes, B. J. M. Braakhuis, E. Bloemena, W. N. van Wieringen
C. R. Leemans, R. H. Brakenhoff (Amsterdam/NL)
- 1830
14 Next generation sequencing (NGS) approach to identify genetic alterations in head and neck squamous cell carcinoma
F. Niehr, R. Kanschak (Berlin/DE), S. Liebs (Heidelberg/DE)
M. Munz, V. Budach, U. Keilholz, I. Tinhofer (Berlin/DE)
- 1845
15 Genetic biomarkers in head and neck squamous cell carcinoma
P. Golusinski (Poznan/PL), X. Zhi (Orlando, FL/US)
K. Lamperska, L. Luczewski (Poznan/PL)
N. J. Schork (La Jolla, CA/US), W. Golusinski (Poznan/PL)
M. Masternak (Orlando, FL/US)
- 1900–2100
Foyer **Poster Sessions with Wine and Cheese**
For further information please see page 19.

- 09⁰⁰–11⁰⁰ Session 4 – Tumor microenvironment (immunology)
Room 03+04 F. Bootz (Bonn/DE), T. Whiteside (Pittsburgh, PA/US)
- 09⁰⁰
16 Invited lecture: Regulation of anti-tumor immunity and
tumor progression by myeloid immune cells
S. Brandau (Essen/DE)
- 09³⁰
17 Impact of polymorphonuclear cells (PMN) in head and neck cancer
progression – a mouse model to investigate time dependent
functions of PMN
K. Moses, S. Lang, S. Brandau (Essen/DE)
- 09⁴⁵
18 Surface binding followed by Ca²⁺ influx results in selective
activation of human regulatory T cells (Treg) by tumor-derived
exosomes (TEX)
L. Muller (Basel/CH), P. Simms, M. Nishimura (Chicago, IL/US)
S. Watkins, T. Whiteside (Pittsburgh, PA/US)
- 10⁰⁰
19 Effect of nasopharyngeal carcinoma-derived exosomes on
human regulatory T cells
D. Mrizak, N. Martin, C. Barjon, R. Mustapha, T. Niki, V. Pancré
Y. de Launoit, P. Busson, O. Moralès, N. Delhem (Lille/FR)
- 10¹⁵
20 IFN γ -induced PD-L1 expression is JAK2 but not JAK1 dependent
and its inhibition enhances NK-cetuximab mediated ADCC of
HNSCC cells
F. Concha-Benavente, R. L. Ferris (Pittsburgh, PA/US)
- 10³⁰
21 Adenosine-producing B cells in patients with head and neck cancer
U. Huber, A. Ziebart, S. Schwarz, M. Jerg, S. Laban
T. K. Hoffmann, P. Schuler (Ulm/DE)
- 10⁴⁵
22 Prognostic impact of tumor associated macrophages and tumor
infiltrating lymphocytes in head and neck cancer treated with
primary chemoradiotherapy
P. Balermipas, F. Rödel, C. M. Rödel, E. Fokas (Frankfurt a. M./DE)
- 11⁰⁰–11³⁰ Break and Industrial Exhibition
Room 01+02

- 11³⁰–13³⁰ Session 5 – Tumor microenvironment (stroma)
 Room 03+04 J. C. Becker, S. Brandau (Essen/DE)
- 11³⁰
 23 Invited lecture: Tumor-stroma interactions promote
 operational flexibility in cancer progression
 O. De Wever (Gent/BE)
- 12⁰⁰
 24 Cross-talk of tumor cells with mesenchymal stromal cells enhances
 tumor progression in head and neck cancer
P. Dissmann (Essen/DE), B. Kansy (Pittsburgh, PA/US)
 K. Bruderek, C. Dumitru, S. Lang, S. Brandau (Essen/DE)
- 12¹⁵
 25 Different subsets of carcinoma-associated fibroblasts promote oral
 carcinoma cell invasion by distinct mechanisms
D. E. Costea (Bergen/NO), A. Hills (London/GB),
 A. Osman (Bergen/NO), J. Thurlow (Glasgow/GB)
 H. Parajuli, S. Suleiman, A. C. Johannessen (Bergen/NO)
 M. Partridge (London/GB)
- 12³⁰
 26 TGF-beta induced interaction of human MSC coculture with
 HNSCC cell line PCI-13
F. Godek, N. Aeckerle, F.-J. Kramer, H. Schliephake
 F. Böhrnsen (Göttingen/DE)
- 12⁴⁵
 27 Comparison of the effects of tumor cells, fibroblasts and TGF- β 1 on
 growth, migration and epithelial-to-mesenchymal transdifferentiation
 (EMT) of oral squamous cell carcinoma
V. Metzler, A. Romani, A. Riml (Innsbruck/AT)
 C. Pritz (Jerusalem/IL), H. Riechelmann, J. Dudás (Innsbruck/AT)
- 13⁰⁰
 28 Expression of integrin α -11 by carcinoma associated fibroblasts
 modulates oral squamous cell carcinoma behaviour
H. Parajuli, D. Sapkota, S. Suleiman, E. M. Cormack
 A. C. Johannessen, D. Gullberg, D. E. Costea (Bergen/NO)
- 13¹⁵
 29 Direct observation of living laryngeal carcinoma cells during invasion
 of healthy cell formation
 H.-P. Zenner (Tübingen/DE)

- 13³⁰–14³⁰ Industrial Symposium MSD
Room 03+04
- 14³⁰–16³⁰ Session 6 – Activation of the host – anti-tumor immunity and immunotherapy
Room 03+04
S. Lang (Essen/DE), T. Reichert (Regensburg/DE)
- 14³⁰
30 Invited lecture: Regulation of anti-tumor immunity by induced regulatory T cells (iTreg) and exosomes
T. Whiteside (Pittsburgh, PA/US)
- 15⁰⁰
31 MCPyV and the immune system: target and modulator
J. C. Becker, S. R. Hadrup (Essen/DE), D. Schrama (Copenhagen/DK)
C. Ritter (Würzburg/DE)
- 15¹⁵
32 STAT1 regulates HLA class I upregulation and immunogenicity after anti-EGFR mAb cetuximab therapy in head and neck cancer patients
R. M. Srivastava, S. Trivedi (Pittsburgh, PA/US), L. Wang
R. R. Sheethala, S. Ferrone (XY/DE), B. F. Branstetter
R. L. Ferris (Pittsburgh, PA/US)
- 15³⁰
33 Cetuximab paying toll to improve its therapeutic efficacy: improving cetuximab-mediated head and neck cancer treatment via co-activation of Fc-receptors and toll-like receptors
J. Bakema, S. Ganzevles, K. Tuk, M. van Egmond, C. R. Leemans
B. J. M. Braakhuis, R. H. Brakenhoff (Amsterdam/NL)
- 15⁴⁵
34 Tumoricidal immune response to papillomavirus-associated head and neck cancer in rabbits after intraperitoneal oxidative stress
R. Mandic, A. Rossmann, J. Heinis, H. Höffken, O. Küssner
R. Kinscherf, E. Weihe, M. Bette (Marburg/DE)
- 16⁰⁰
35 The role of toll-like receptor (TLR) agonists in combinational immunotherapy for head and neck cancer
B. Kansy, Y. Lei, J. Li, R. M. Srivastava, R. Stephenson (Pittsburgh, PA/US)
S. Brandau, S. Lang (Essen/DE), R. L. Ferris (Pittsburgh, PA/US)
- 16¹⁵
36 A new anticancer drug in sinonasal carcinoma targeting the NFκB pathway
C. García-Inclán, A. López-Hernández, F. López, M. Costales
B. Vivanco, J. L. Llorente, M. Hermesen (Oviedo/ES)

- 16³⁰–17⁰⁰ Break and Industrial Exhibition
Room 01+02
- 17⁰⁰–17³⁰ Public Leopoldina Lecture – German National Academy of Science
Room 03+04 A. Dietz (Leipzig/DE)
- 17⁰⁰ Innovative Strategien zur Krebstherapie
Innovative strategies to fight cancer (in German)
S. Lang (Essen/DE)
- 18³⁰ Guided Tour through Zeche Zollverein
- 19³⁰ Social Evening at the Zeche Zollverein
A shuttle will be provided at 18⁰⁰ hrs from the ATLANTIC Congress Hotel.
For further information please see page 8.

- 09⁰⁰–11⁰⁰ **Session 7 – Biological impact of HPV infection**
 Room 03+04 J. P. Klußmann (Giessen/DE), R. H. Brakenhoff (Amsterdam/NL)
- 09⁰⁰
 37 Invited lecture: Mechanisms of tumor clearance in
 HPV-associated HNSCC
 J. Lee (Sioux Falls, SD/US)
- 09³⁰
 38 Immune evasion of HPV-associated HNSCC
 M. Reuschenbach (Heidelberg/DE)
- 09⁴⁵
 39 Molecular dissection of the impact of frequent genetic alterations
 on the response of head and neck cancers to anti-epidermal growth
 factor receptor-directed therapies
M. Pogorzelski, S. Ting, T. Gauler, F. Breitenbücher, I. Vossebein
 S. Hoffarth, J. Markowitz, S. Lang, C. Bergmann, S. Brandau
 J. Abu-Jawad, K. W. Schmid (Essen/DE)
 M. Schuler (Essen, Heidelberg/DE), S. Kasper (Essen/DE)
- 10⁰⁰
 40 Radiation induced immunogenic cell death signals in human
 HPV-positive HNSCC cell lines
K. Schneider, V. Bol, P. Coulie, V. Grégoire (Brussels/BE)
- 10¹⁵
 41 Is HPV infection the first genetic hit in head and neck cancer?
 M. M. Rietbergen, B. J. M. Braakhuis, E. Bloemena, C. R. Leemans
 R. H. Brakenhoff (Amsterdam/NL)
- 10³⁰
 42 CD56-positive lymphocyte infiltration in correlation with
 outcome and human papilloma virus association of oropharyngeal
 squamous cell carcinoma
S. Wagner, C. Wittekindt (Giessen/DE)
 M. Reuschenbach (Heidelberg/DE), B. Hennig
 M. Thevarajah (Giessen/DE), E.-S. Prigge
 M. von Knebel Doeberitz (Heidelberg/DE)
 T. Dreyer, A. Bräuninger, S. Gattenlöhner, J. P. Klußmann (Giessen/DE)
- 10⁴⁵
 43 Virus integration in the host cell genome
 E. J. Speel (Maastricht/NL)
- 11⁰⁰–11³⁰ **Break and Industrial Exhibition**
 Room 01+02

- 11³⁰–13³⁰ Session 8 – Prognostic and predictive bio markers
Room 03+04 J. Lee (Sioux Falls, SD/US), S. W. Kim (Pittsburgh, PA/US)
- 11³⁰
44 Invited lecture: Modern cancer therapy and prediction of
 response
 U. Keilholz (Berlin/DE)
- 12⁰⁰
45 Polo-like-kinase-1 as a potential therapeutic target in merkel cell
 carcinoma
 L. Kadletz, G. Heiduschka, C. Lill, S. Schneider, R. Seemann
 J. Bigenzahn, D. Thurnher (Vienna/AT)
- 12¹⁵
46 Indoleamine 2,3 – dioxygenase and cancerous inhibitor of pp2A
 expression and inflammation in lingual hyperplasia and tongue cancer
 M. Lehtinen (Helsinki/FI), S. Tervo, E. Halme, L. Tiilikainen
 K. Pohjola, T. Honkanen, J. Laranne (Tampere/FI)
 S. Salmi (Helsinki/FI), T. Paavonen (Tampere/FI)
- 12³⁰
47 Prognostic markers in stage 1 oral cavity squamous cell carcinoma
 J. Dunkel, S. Vaittinen, R. Grénman, I. Kinnunen, H. Irjala (Turku/FI)
- 12⁴⁵
48 Expression pattern and significance of homeodomain only protein
 (HOPX) in head and neck cancer
 R. C. Gokulan, I. C. Paterson (Kuala Lumpur/MY)
- 13⁰⁰
49 Identification of kallikrein-related peptidase 6 in primary mucosal
 malignant melanoma of the head and neck
 J. Thierauf, J. Veit (Ulm/DE), A. Knopf (Munich/DE)
 C. Bergmann (Essen/DE), T. K. Hoffmann (Ulm/DE), P. K. Plinkert
 J. Koffler, J. Heß (Heidelberg/DE)
- 13¹⁵
50 Influence of microRNA expression profiles on the efficacy of
 radiochemotherapy in locally advanced head and neck squamous cell
 carcinoma
 A.-K. Heß, A. Mürer (Berlin/DE), W. Weichert
 A. Stenzinger (Heidelberg/DE), V. Budach, I. Tinhofer (Berlin/DE)
- 13³⁰–13⁴⁵ Closing Ceremony
Room 03+04

1900–2100

Poster Session 1

Foyer

K. Lauber (Munich/DE)

P 1

Quantification of the inflammatory tumor microenvironment in carcinomas of the larynx

O. Kanaan, A. Schlüter (Essen/DE), L. Heusgen (Munich/DE)

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