



Welcome to the first edition of Alumni Monthly in 2017

We hope you all had a good start into the new year!

This e-mail newsletter aims to bring you closer to what is happening at the DKFZ. It includes news from the press office, job offers and conferences as well as introductions to our new divisions and junior groups. It also informs you of upcoming Alumni Association events.

We hope you enjoy reading this newsletter and we are looking forward to hearing your suggestions for future issues.

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News from the Press Office

DKFZ-researcher receives ERC-Grant



Aurelio Teleman, © Tobias Schwerdt, DKFZ

ERC Consolidator Grants by the European Research Council (ERC) support excellent researchers to help them consolidate their independent careers. Aurelio Teleman from the German Cancer Research Center (DKFZ) recently received a Consolidator Grant, which is already the second prestigious ERC grant that he was able to attract. The grant comprising €2 million will enable Teleman to investigate how a fatty acid from food controls cellular growth as a signaling molecule and may even play a role in the

development of cancer. [read more](#)

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Programmable gene scissors revolutionize life sciences

The Meyenburg Prize 2016 endowed with 50,000 Euros goes to the microbiologist Emmanuelle Charpentier from the Max Planck Institute for Infection Biology in Berlin. She receives the award for her breakthrough work in developing programmable "gene scissors". This new technology that makes genetic manipulation fast and simple. The Meyenburg Prize will be presented during a symposium at the German Cancer Research Center on Tuesday, 20 December 2016. [read more](#)



Emmanuelle Charpentier, © dkfz.de

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Alina Steinbach receives the Nicola Werner Prize for cancer research

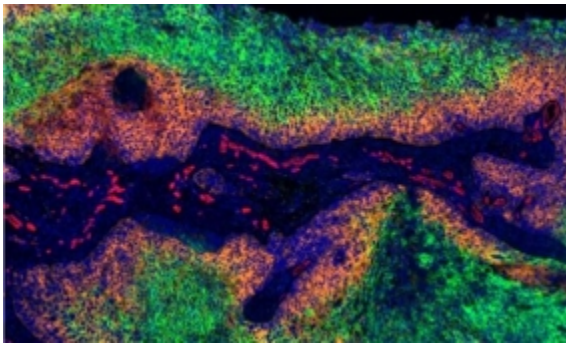
In her doctoral thesis, Alina Steinbach identified a mechanism by which HPV-positive tumor cells manage to escape an attack of the immune system. On Friday 16 December 2016, she received the Nicola Werner Prize for her work. For the 2000 Euro prize money, family and friends of the artist Nicola Werner, who died from HPV-related cancer, pedaled hard in a sponsored cycling marathon- continuing Nicola Werner's mission: to drive preventive work and research into human papillomavirus (HPV) forward. [read more](#)



Alina Steinbach, © Tobias Schwerdt, DKFZ

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Lack of oxygen turns cancer cells into dangerous “sleeper cells”



Cervical cancer: The tumor regions dyed green are deprived of oxygen. Here ... © Dr. Arnulf Mayer, University of Mainz

For a long time it was considered an established fact that cervical cancer, which is caused by human papillomaviruses (HPV), depends on two specific viral proteins. If they are absent, the cancer cells stop growing permanently. Scientists at the German Cancer Research Center (DKFZ) have now discovered that cancer cells reduce the production of these viral proteins during hypoxia - a condition of oxygen deficiency that is very common in tumors. However, this

does not lead to final growth cessation, but instead induces a state of dormancy from which the cancer cells can awaken and start proliferating again and may thus cause the cancer to return. [read more](#)

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“The chances of recovery for severely ill children are being further improved”



Theresia Bauer with the directors of the KITZ (from left) Olaf Witt, Andrea... ©

To commemorate the founding of the Hopp Children's Tumor Center at the NCT Heidelberg (KITZ) by the Heidelberg University Hospital and the German Cancer Research Institute (DKFZ), the first Child Cancer Symposium in Heidelberg took place on January 19 and 20. The night before, the directors of the KiTZ invited representatives from the fields of science, politics, and economics to a reception at the Print Media Academy in Heidelberg. [read more](#)

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Highlight Publications

selected by the Research Program Directors

Protein abundance of AKT and ERK pathway components governs cell type-specific regulation of proliferation.

Mol Syst Biol. 2017 Jan 24; 13(1):904. doi: 10.15252/msb.20167258.

Adlung L, Kar S, Wagner MC, She B, Chakraborty S, Bao J, Lattermann S, Boerries M, Busch H, Wuchter P, Ho AD, Timmer J, Schilling M, Höfer T, Klingmüller U.

Signaling through the AKT and ERK pathways controls cell proliferation. However, the integrated regulation of this multistep process, involving signal processing, cell growth and cell cycle progression, is poorly understood. Here, we study different hematopoietic cell types, in which AKT and ERK signaling is triggered by erythropoietin (Epo). Although these cell types share the molecular network topology for pro-proliferative Epo signaling, they exhibit distinct proliferative responses. Iterating quantitative experiments and mathematical modeling, we identify two molecular sources for cell type-specific proliferation.

[read more](#)

Marker chromosomes can arise from chromothripsis and predict adverse prognosis in acute myeloid leukemia.

Blood 2017 :blood-2016-09-738161;

Tilman Bochtler, Martin Granzow, Friedrich Stölzel, Christina Kunz, Brigitte Mohr, Mutlu Kartal-Kaess, Katrin Hinderhofer, Christoph E. Heilig, Michael Kramer, Christian Thiede, Volker Endris, Martina Kirchner, Albrecht Stenzinger, Axel Benner, Martin Bornhäuser, Gerhard Ehninger, Anthony D. Ho, Anna Jauch and Alwin Krämer

Metaphase karyotyping is an established diagnostic standard in acute myeloid leukemia (AML) for risk stratification. One of the cytogenetic findings in AML are structurally highly abnormal

marker chromosomes. In this study we have assessed frequency, cytogenetic characteristics, prognostic impact and underlying biological origin of marker chromosomes. Given their inherent gross structural chromosomal damage, we speculated that they may arise from chromothripsis, a recently described phenomenon of chromosome fragmentation in a single catastrophic event.

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New Research Group

Junior Research Group Adaptive Immunity and Lymphoma Sandrine Sander, MD, PhD

Sandrine Sander joined the research program of Translational Cancer Research in December 2015 after completing her PostDoc at the Max Delbrück Center for Molecular Medicine (MDC).



Sandrine Sander, MD, PhD Adaptive Immunity and Lymphoma (G220) Deutsches Krebsforschungszentrum and Nationales Centrum für Tumorerkrankungen (NCT)

Our immune system is essential for combating of pathogens, however, it may be the origin for diseases including malignancies. B cells are important players in adaptive immunity and our group is interested in B cell development and function as well as their malignant transformation in lymphoma cells. The focus of our research is the germinal center (GC) reaction which is important for antibody-mediated pathogen defense and origin of most human lymphoma entities. [read more](#)

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Lectures & Conferences

Chromatin - from beads on a string to four-dimensional nuclear architecture - A symposium on the occasion of Don Olins' 80th birthday

February 3, 2017

Speakers:

- Ueli Aebi (Basel)
- Joanna Bridger (London)
- Cristina Cardoso (Darmstadt)
- Thomas Cremer (Munich)
- Jacques Dubochet (Lausanne)
- Bill Earnshaw (Edinburgh)
- Gary Felsenfeld (Bethesda)
- Ana Pombo (Berlin)
- Ada Olins (Portland)
- Don Olins (Portland)
- Ivan Raska (Prague)
- Karl Sperling (Berlin)
- Monika Zwerger (Essen)



Distinguished Lecturer: Gary Felsenfeld, Ph.D., Distinguished Investigator in the Laboratory of Molecular Biology at the National Institute of Diabetes and Digestive and Kidney Disorders (NIDDK)

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Symposium "Molecular Mechanisms of Cancer"

A poster for the symposium "Molecular Mechanisms of Cancer" held at DKFZ from February 9-10, 2017. The poster features a colorful, abstract image of cells. Logos for Universität Heidelberg and DKFZ are visible. The text on the poster includes the dates, location (German Cancer Research Center [DKFZ], Communication Center, Heidelberg), and a list of speakers for both days. The speakers listed are Jürgen Knoblich, Axel Behrens, Rune Lindig, Frank Buchholz, Michaela Frye, Henning Walczak, Jörg Hübken, and Christoph Kleis. The poster also mentions the organizers: Michael Boxmann, Michel Bouvros, and Andreas Trnup.

February 9 - 10, 2017

Symposium as part of the appointment procedure for a "Full Professorship (W3) in Molecular Mechanisms of Tumorigenesis", jointly advertised with the Heidelberg Faculty of Biosciences

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34. Heidelberger Frühjahrssymposium des NCT - 34th Heidelberg Spring Symposium of the National Center for Tumor Diseases Heidelberg, NCT)

February 11, 2017

Das Mammakarzinom – Aktueller Stand in Diagnostik, Therapie und Nachsorge

(talks in German)

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DKFZ-Bayer Drug Discovery Seminar Series

This series of seminars on Drug Discovery, which are jointly organised by DKFZ and Bayer in the frame of their strategic alliance take place every 1-2 months. The kick-off seminar was on January 16.

The goal of this series is to provide a basic understanding of the drug discovery process and an overview of the different topics and disciplines involved in this process.

Next seminar: Target Identification & Validation

Monday, February 27, 2017 13:00 - 14:00

[read more](#)

[further events of this series](#)

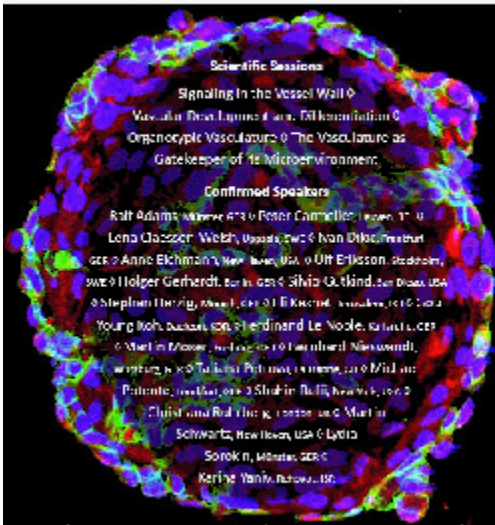
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Conference: 12 years SFB-TR23: From Vascular Differentiation and Remodeling to Organotypic Vasculature

12 years SFB/TR 23: 'From Vascula- Differentiation and Remodeling to Organotypic Vasculature'



Heidelberg, Germany, March 27-28, 2017



regio23.de - www.transregio23.de - www.transregio23.de - w



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March 27-28, 2017

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2nd European Cancer Epigenetics Conference 2017

11 – 13 May 2017

[read more](#)



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Job Openings

Scientific jobs

- 030/2017 Group leader positions - At the German Cancer Research Center (DKFZ)
- 022/2017 Postdoctoral Fellow or PhD Student to work in the area of epigenetics and gene regulation - German Cancer Consortium (DKTK) Freiburg
- 019/2017 Wissenschaftliche/r Mitarbeiter/in in Voll- oder Teilzeit 50% - Klinische Kooperationseinheit Strahlentherapie
- 017/2017 Postdoc Position Wnt signaling in Mouse Developmental Biology - Molecular Embryology
- 008/2017 Postdoc Position Wnt signaling - Molecular Embryology
- 006/2017 Postdoc - Vascular control of immune cell infiltration and metastasis - Vascular Signaling and Cancer
- 002/2017 Postdoctoral Fellow - German Consortium for Translational Cancer Research (DKTK) München
- 001/2017 Postdoctoral Fellow - Molecular RNA Biology - RNA Biology & Cancer
- 327/2016 Postdoc / Bioinformatician - Theoretical Bioinformatics
- 326/2016 Senior Postdoc / Bioinformatician - Theoretical Bioinformatics
- 325/2016 Platform Leader - Functional Cancer Genomics - German Cancer Consortium (DKTK) Heidelberg
- 315/2016 PhD/ Postdoc/ Research assistant positions in tumor immunotherapy - German Cancer Consortium (DKTK) Freiburg
- 314/2016 PhD Student or Postdoctoral Fellow to work in the area of cancer proteomics - German Cancer Consortium (DKTK) Freiburg
- 311/2016 Postdoctoral Scientist - Molecular Genetic Epidemiology

PhD studentships / Diploma theses

- 032/2017 PhD Student
normal tissue reaction following photon and proton irradiation - German Consortium for Translational Cancer Research (DKTK) Dresden
- 024/2017 Doktoranden/in
Projekt: „Zukünftige Krebslast – Prädiktionen und Präventionspotential“ - Klinische Epidemiologie und Altersforschung
- 022/2017 Postdoctoral Fellow or PhD Student to work in the area of epigenetics and gene regulation - German Cancer Consortium (DKTK) Freiburg
- 328/2016 PhD Student Systems Biology - Theoretical Bioinformatics
- 321/2016 PhD Student - Developmental Biology, Centre for Organismal Studies (COS) and Applied Functional Genomics, NCT/DKFZ
- 315/2016 PhD/ Postdoc/ Research assistant positions in tumor immunotherapy - German Cancer Consortium (DKTK) Freiburg
- 314/2016 PhD Student or Postdoctoral Fellow to work in the area of cancer proteomics - German Cancer Consortium (DKTK) Freiburg

Laboratory / Engineering department

- 029/2017 Meister/in/ Techniker/in Elektrotechnik mit Schwerpunkt Information- und Kommunikationstechnik (I&K) - Technische Infrastruktur
- 023/2017 Study Nurse/ Studienassistent/in - Nationalen Centrusms für Tumorerkrankungen (NCT) Dresden
- 018/2017 MTA/ BTA - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Freiburg
- 011/2017 BTA/ MTA/ CTA - Hochdurchsatzsequenzierung
- 007/2017 BTA/ MTA/ CTA - Hochdurchsatzsequenzierung

Administration

- 033/2017 Fremdsprachensekretär/in in der Forschung in Teilzeit 19,75 Std./Woche - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Freiburg
- 028/2017 Sekretär/in - Präventive Onkologie
- 026/2017 Studentische/n Online-Redakteur/in in Teilzeit 10 Std./Woche - Deutsches Konsortium für Translationale Krebsforschung Heidelberg
- 025/2017 Sekretär/in/ Bürokauffrau/-mann in Teilzeit 19,75 Std./Woche - Nationalen Centrusms für Tumorerkrankungen (NCT) Dresden
- 021/2017 2 Volljuristen/innen -
- 020/2017 Studentische Hilfskraft in Teilzeit 10. Std./Woche - Rechtsangelegenheiten des Stiftungsvorstandes
- 014/2017 Wirtschaftswissenschaftler/in oder Mathematiker/in in der Gruppe Haushaltsmanagement/ Steuern - Finanz- und Rechnungswesen
- 009/2017 Sekretär/in in Teilzeit 19,75 Std./Woche - Vaskuläre Onkologie und Metastasierung
- 316/2016 Technologiemanager/in - Stabsstelle Technologietransfer
- 309/2016 Sachbearbeiter/in Patente in Teilzeit 50% - Stabsstelle Technologietransfer

Further job offers

- 016/2017 Datenmanager/in bzw. Medizinische/r Dokumentar/in in Voll- oder Teilzeit mit mind. 24 Std./Woche - Medizinische Informatik in der Translationalen Onkologie / Zentrales Datenmanagement NAKO-Gesundheitsstudie
- 015/2017 Wissenschaftliche/r Mitarbeiter/in / Informatiker/in / Software-Entwickler/in in Voll- oder Teilzeit mit mind. 24 Std./Woche - Medizinische Informatik in der Translationalen Onkologie / Zentrales Datenmanagement NAKO-Gesundheitsstudie
- 013/2017 Bioinformatiker/in in Teilzeit 19,75 Std./Woche - Hochdurchsatzsequenzierung der Zentralen Einheit für Genom- und Proteomforschung
- 012/2017 Study Nurse/ Studienassistent/in - Heidelberger Zentrum für Personalisierte Onkologie
- 004/2017 IT Dateningenieur/in / Softwareentwickler/in - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Dresden
- 003/2017 Klinische/r Datenmanager/in / Clinical Data Manager - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Dresden
- 323/2016 Fachinformatiker/in/ Systemadministrator/in - Partnerstandort Dresden des

Nationalen Centrus für Tumorerkrankungen (NCT)

- 322/2016 Fachinformatiker/in/ Systemadministrator/in/ Linuxadministrator/in - Partnerstandort Dresden des Nationalen Centrus für Tumorerkrankungen (NCT)
- 320/2016 Studentische Hilfskraft mit einem Umfang von 40 Std./Monat - Zentrale Einheit für Genom und Proteom
- 317/2016 Bioinformatiker/in - Hochdurchsatzsequenzierung der Zentralen Einheit für Genom- und Proteomforschung
- 299/2016 Informatiker/in / Bioinformatiker/in - Theoretische Bioinformatik

[link to job openings](#)

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Alumni Matters

Alumni New Year's Reception 2017 "La Dolce Vita"



The DKFZ Alumni Association & the DKFZ Management Board cordially invite all alumni and scientists to the traditional Alumni New Year's Reception, this time under the motto "La Dolce Vita".

Thursday, February 16th, 2017 - starting at 16:20

Location: Lecture Hall, DKFZ Communication Center

Highlights: Our Italian colleagues and guests will be presenting Italian opera, cultural background information, folklore music and dance. We will be concluding the evening with an Italian buffet dinner.

If you would like to attend this event, please register by February 10, 2017 [read more](#)

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Alumni Get-Together in Boston, USA

The next get-together of the DKFZ Alumni in the Greater Boston area will take place on **24th February, 2017.**

For more information about this and other international DKFZ Alumni groups, please [click here](#)



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Stay Connected

Meet DKFZ at the European Career Fair at MIT



MIT European Career Fair 2017
February 25th, 9am-4pm
Johnson Athletic Center (W34), MIT,
Cambridge, USA

The DKFZ will participate with a stand and provide information about research and career opportunities at the Center. [read more](#)

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Join the Alumni Association

Alumni members benefit from an attractive range of activities:

- Alumni Monthly electronic newsletter reporting on recent developments at the DKFZ
- Publication of Alumni Magazine reporting on Alumni activities
- Eligibility for a DKFZ Alumni email address your.name@alumni.dkfz.de
- Biennial General Alumni Meeting and Scientific Symposium, including travel grants

All current and former DKFZ colleagues are welcome to join. Please register at www.dkfz.de/en/alumni

Join more than 1700 colleagues on DKFZ Connect, the online platform for networking and mentoring between former and current employees, including events and job postings. You can register per email or easily sync your profile with social media on www.dkfz-connect.de

Imprint

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IN THE HELMHOLTZ ASSOCIATION



Research for a Life without Cancer