



## **Welcome to the June edition of Alumni Monthly**

*This e-mail newsletter aims to bring you closer to what is happening at the DKFZ. There are plenty of job openings that might be interesting for you or someone you know. Please feel free to pass the information to your colleagues and students.*

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

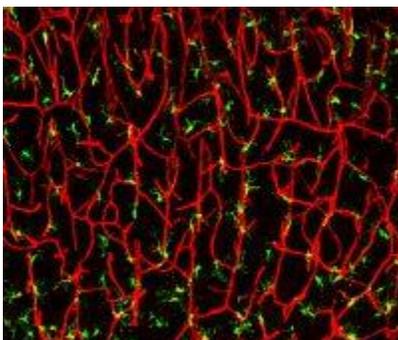
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## **News from the Press Office**

### **Macrophages control the development of nerves and blood vessels in the brain**



*During the early postnatal development of*

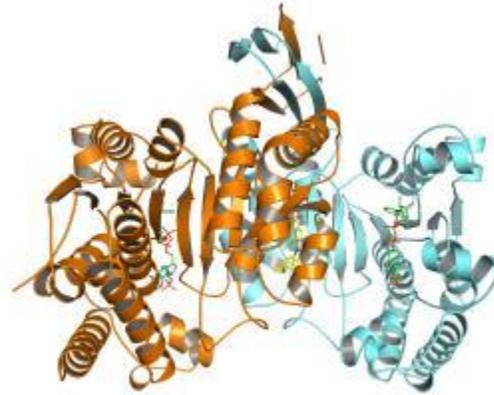
the brain, macrophages (green) are located in the immediate vicinity of blood vessels. © DKFZ

Nerve cells and blood vessels have striking common features during their development. Scientists from the DKFZ have shown that macrophages control the growth and branching of nerves as well as blood vessels in the brain. A molecule called CD95 plays a key role in this process. [read more](#)

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## Blocking cancer-specific mutations in leukemia and brain tumors

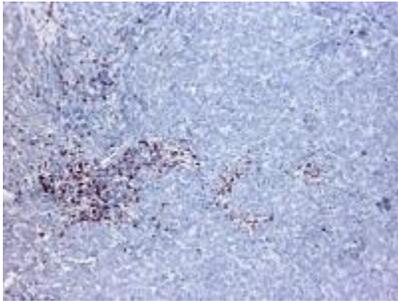
The substitution of a single amino acid in a metabolic enzyme can be the cause of various types of cancer. Scientists from the DKFZ and Heidelberg University Hospital, collaborating with Bayer AG, have now been able to develop a candidate for an agent that is intended to specifically block the altered enzyme. First studies in mice have demonstrated preclinical effects of this investigational compound. [read more](#)



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## DKTK Essen/Düsseldorf: New findings support immunotherapy of skin cancer



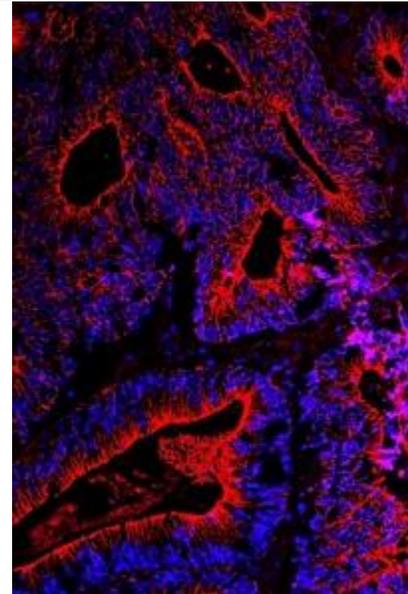
© Prof. Lorenzo Cerroni /Medizinischen Universität Graz

Merkel cell carcinoma of the skin is often invisible for the body's immune defense because it silences specific genes of the immune system. Scientists from the German Cancer Consortium (DKTK) at the Medical Faculty of Duisburg Essen University at Essen University Hospital have found a way how to make the tumor a target for the immune system again. Thus, immunotherapeutic approaches in the treatment of skin cancer might become much more effective. In the DKTK, the DKFZ joins up as a core center in long-term collaborations with partner university institutes and hospitals all over Germany that are specialized in research and treatment with a focus on oncology. [read more](#)

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## Cancer prevention: Colonoscopy could save even more lives

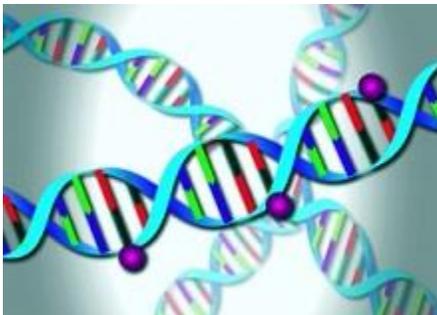
Colonoscopy presumably prevented more than 25,000 deaths from colorectal cancer in Germany in the years 2008-2011, scientists from the DKFZ report. They also calculated that mortality from colorectal cancer in persons aged between 55 and 79 years could still drop by more than a third if all individuals in this age group made use of the screening program. [read more](#)



© Dr. Lutz Langbein / DKFZ

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## Mysterious gene transcripts after cancer therapy



© Schuster, DKFZ

Drugs that are used in cancer therapy to erase epigenetic alterations in cancer cells simultaneously promote the production of countless mysterious gene transcripts, scientists from the DKFZ now report in Nature Genetics. The substances activate hidden regulatory elements in DNA. The unusual gene activity has the potential to stimulate the immune system – a previously unnoticed effect that may increase the effect of therapeutic agents. [read more](#)

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## How bile duct cancer develops and how it can be prevented

What promotes the development of bile duct cancer in the liver? Are these factors different from those that are responsible for the much more common hepatocellular carcinomas? Scientists from the DKFZ and from the Technical University of Munich (TUM) have been the first to uncover the molecular and cellular causes that selectively lead to the development of bile duct cancer in mice. The researchers also discovered that antioxidants or an inhibitor of a specific key enzyme can be used to stop this cancer-promoting process. [read more](#)



The artistic illustration depicts the role of reactive oxygen species, TNF, and JNK in the formation of liver malignancies - hepatocellular carcinoma or intrahepatic cholangiocarcinoma. © Peter von Walter/DKFZ

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## Laying of the foundation stone for the new building of the NCT Dresden



© wörner traxler richter

At the National Center for Tumor Diseases (NCT) patients and scientists enter through the same door. This is more than just a symbol: NCT Dresden has made it its duty to connect research and patient care as closely as possible. That is why cancer patients in Dresden are treated based on the latest research results, which - in this form - is outstanding throughout Europe.

The supporting institutions of NCT Dresden are the DKFZ, the Carl Gustav Carus Faculty of Medicine at TU Dresden, the University Hospital Carl Gustav Carus Dresden and the Helmholtz-Zentrum Dresden-Rossendorf.

After construction is completed in 2019, NCT Dresden will receive an annual funding of 15 million euro, financed in a 90:10 ratio by the federal government and the Saxon government. For the new NCT building on the grounds of the University Hospital, the State of Saxony is allocating another 22 million euro. [read more](#)

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## Highlight Publications

### **Dissecting and modeling the emergent murine TEC compartment during ontogeny**

Eur. J. Immunol. First published: 22 May 2017, DOI: 10.1002/eji.201747006

Fabian Brunk, Chloé Michel, Tim Holland-Letz, Alla Slynko, Annette Kopp-Schneider, Bruno Kyewski, Sheena Pinto

[link to article](#)

### **Kupffer Cell-Derived Tnf Triggers Cholangiocellular Tumorigenesis through JNK due to Chronic Mitochondrial Dysfunction and ROS.**

Cancer Cell. 2017 Jun 12;31(6):771-789.e6. doi: 10.1016/j.ccell.2017.05.006. PMID: 28609656

Yuan D, Huang S, Berger E, Liu L, Gross N, Heinzmann F, Ringelhan M, Connor TO, Stadler M, Meister M, Weber J, Öllinger R, Simonavicius N, Reisinger F, Hartmann D, Meyer R, Reich M, Seehawer M, Leone V, Höchst B, Wohlleber D, Jörs S, Prinz M, Spalding D, Protzer U, Luedde T, Terracciano L, Matter M, Longerich T, Knolle P, Ried T, Keitel V, Geisler F, Unger K, Cinnamon E, Pikarsky E, Hüser N, Davis RJ, Tschaharganeh DF, Rad R, Weber A, Zender L, Haller D, Heikenwalder M.

[link to article](#)

### **Sensitivity and specificity of antibodies against HPV16 E6 and other early proteins for the detection of HPV16-driven oropharyngeal squamous cell carcinoma.**

Int J Cancer. 2017 Jun 15;140(12):2748-2757. doi: 10.1002/ijc.30697. Epub 2017 Apr 4.

Holzinger D1, Wichmann G2, Baboci L1,3, Michel A1, Höfler D1, Wiesenfarth M4, Schroeder L1, Boscolo-Rizzo P5, Herold-Mende C6,7, Dyckhoff G6, Boehm A2, Del Mistro A8, Bosch FX6, Dietz A2, Pawlita M1, Waterboer T1.

[link to article](#)

### **Serology of *Streptococcus gallolyticus* subspecies *gallolyticus* and its association with colorectal cancer and precursors.**

*Int J Cancer*. 2017 May 6. doi: 10.1002/ijc.30765. [Epub ahead of print]

Butt J1, Werner S2, Willhauck-Fleckenstein M1, Michel A1, Waterboer T1, Zörnig I3, Boleij A4, Dramsi S5, Brenner H2, Pawlita M1.

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## **Lectures & Conferences**

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### **Personalized Medicine - International Symposium 2017**

**3 - 4 July 2017**

**Key Note Speakers** are - among many other distinguished scientists - as follows:

Mike Snyder, Stanford

Luis Serrano Pubul, Barcelona

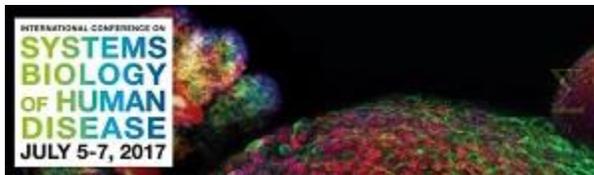
Anne-Lise Børresen-Dale, Oslo



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### **International Conference on Systems Biology of Human Disease (SBHD)**



**5 - 7 July 2017**

The International Conference on Systems Biology of Human Disease (SBHD) is a transatlantic event and communication

platform for scientific exchange that takes place alternately in the United States and Germany.

[link to program](#)

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### **Lunch Talk Series by the DKFZ PostDoc Network (PDN) and BioMed X Innovation Center**



© Biomed X

**11 July 2017, 11:00**

**Prof. Wolf Reik, The Babraham Institute,  
Cambridge, UK**

### **"Single cell epigenome dynamics in mammalian development"**

In the "Lunch Talk Series", group leaders from BioMed X Innovation Center and the PostDoc Network of the German Cancer Research Center invite renowned life science researchers to join them for a scientific exchange on novel research approaches.

The monthly lunch talks are a great meeting opportunity for researchers and students in the field of life sciences, with focus on cell biology, immunology, bioinformatics, neuroscience and nanomaterials.

The talks begin with one hour of presentation followed by informal discussions and networking during a sponsored lunch.

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## **DKFZ-Bayer Drug Discovery Lecture: Antibody Lead Generation**

**19 July 2017, 13:00 - 14:00**

Dr. Christian Votsmeier, Drug Discovery, Antibody Lead Discovery, Bayer AG



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## **Job Openings**

### **Scientific jobs**

- 192/2017 Bioinformatician - German Cancer Consortium (DKTK) Munich
- 190/2017 Wissenschaftliche/r Mitarbeiter/in im Bereich Medizinische Informatik - Medizinische Informatik in der Translationalen Onkologie
- 189/2017 Wissenschaftliche/r Mitarbeiter/in im Bereich Medizinische Informatik -

## Medizinische Informatik in der Translationalen Onkologie

- 186/2017 2 Wissenschaftsadministratoren/innen für die DKTK Standorte Frankfurt/Mainz und München - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Frankfurt/Mainz und München
- 183/2017 Head of the Core Facility "Omics IT and Data Management" -
- 182/2017 Postdoc - Preventive Oncology
- 180/2017 Scientific Coworker/ Postdoc - Episomal-Persistent DNA in Cancer- and Chronic Diseases
- 168/2017 Postdoc Position - Wnt signalling in Mouse Developmental Biology - Molecular Embryology
- 166/2017 2 Postdoc Positions in translational research - Immunogenetics
- 165/2017 Computational Biologist or Bioinformatician - Epigenetics
- 161/2017 Professorship (W2) for "Bioinformatics in Oncology" - German Cancer Consortium (DKTK) Frankfurt/Mainz
- 151/2017 2 Postdoctoral Scientists - Redoxregulation
- 144/2017 Postdoctoral Scientist - Redoxregulation
- 138/2017 Wissenschaftliche/r Mitarbeiter/in - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Freiburg

## PhD studentships

- PhD Positions in Cancer Research within the International PhD Program
- 193/2017 PhD Student - German Cancer Consortium (DKTK) Munich
- 192/2017 Bioinformatician - German Cancer Consortium (DKTK) Munich
- 170/2017 PhD Student Applied Bioinformatics (Stipend) - German Cancer Consortium (DKTK) Essen/ Düsseldorf
- 156/2017 Doktorand/in - Promotionsstipendium - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Essen/ Düsseldorf
- 139/2017 PhD Student - Recombinant Protein Biochemistry and X-ray structure determination of Novel Protein Kinase Regulators involved in Cancer - Molecular Embryology
- 089/2017 PhD Student - DNA repair mechanisms and cancer
- 080/2017 PhD candidate in MR image reconstruction for non-Cartesian data and quantitative susceptibility mapping using generalized sampling - Medical Physics in Radiology

## Laboratory / Engineering department

- 197/2017 Technische/r Assistent/in MTA/ BTA - Heidelberger Zentrum für Personalisierte Onkologie
- 195/2017 BTA/ MTA - Krebs- und stoffwechsellassozierte Signaltransduktion
- 187/2017 MTA/BTA/CTA - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Frankfurt/Mainz
- 185/2017 Bautechniker/in Fachrichtung Hochbau - Technische Infrastruktur
- 179/2017 BTA/ MTA in Teilzeit 19,75 Std./Woche - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Berlin
- 178/2017 Technische/r Assistent/in - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Frankfurt/Mainz
- 177/2017 Technische/r Angestellte/r - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Frankfurt/Mainz
- 175/2017 Technische/r Assistent/in - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Essen/ Düsseldorf
- 171/2017 Technische/r Assistent/in BTA/ MTA - Molekulare Grundlagen Gastrointestinaler Tumoren
- 167/2017 MTA/ BTA - Deutsches Konsortium für Translationale Krebsforschung (DKTK) München
- 163/2017 Technische/r Assistent/in MTA/ BTA - Molekulare Leukämogenese

- 159/2017 BTA/ MTA/ CTA - Hochdurchsatzsequenzierung
- 157/2017 MTA/ BTA - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Essen/ Düsseldorf
- 154/2017 Technische/r Assistent/in in Teilzeit 50-80% - Präventive Onkologie
- 137/2017 Technische/r Assistent/in - Virus-Assoziierte Karzinogenese
- 131/2017 MT(R)A, BTA oder Biologielaborant/in - Medizinische Physik in der Radiologie
- 130/2017 BTA/ MTA - Chronische Entzündung und Krebs

#### **Administration**

- 186/2017 2 Wissenschaftsadministratoren/innen für die DKTK Standorte Frankfurt/Mainz und München - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Frankfurt/Mainz und München
- 102/2017 Arzt/ Ärztin in Teilzeit 20 Std./Woche - Krebsinformationsdienst

#### **Further job offers**

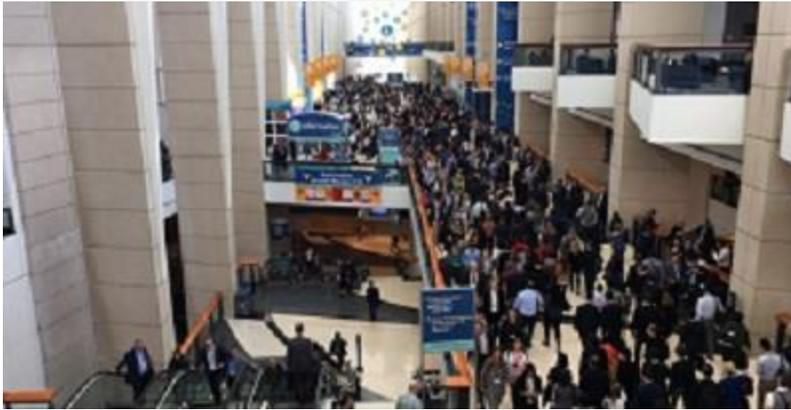
- 194/2017 Studentische Hilfskraft im Studienzentrum Saarbrücken der NAKO Gesundheitsstudie in Teilzeit 40 Std./Monat - Epidemiologie von Krebserkrankungen
- 188/2017 IT-Systemmanager/in - Medizinische Informatik in der Translationalen Onkologie
- 174/2017 IT-Fachkraft in Teilzeit 50% - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Freiburg
- 173/2017 Klinische/r Dokumentar/in - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Heidelberg
- 172/2017 Studentische Hilfskraft in Teilzeit 28 Std./Monat - Heidelberger Zentrum für Personalisierte Onkologie
- 169/2017 Medizinische/r Dokumentar/in - Epidemiologie von Krebserkrankungen
- 158/2017 Medizinische/r Dokumentationsassistent/in - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Dresden
- 134/2017 Study Nurse/ Studienassistent/in - Partnerstandort Dresden des Nationalen Centrums für Tumorerkrankungen (NCT)
- 124/2017 IT Dateningenieur/in / Softwareentwickler/in - Deutsches Konsortium für Translationale Krebsforschung (DKTK) Dresden

[link to job openings](#)

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## **Alumni Matters**

### **DKFZ Alumnus Horace Chan reports from the ASCO Meeting 2017**



*Delegates rushing to attend presentations and booths in ASCO2017*

Having just completed my Masters defense, I decided to look for scientific opportunities beyond doing a PhD (and whether my enthusiasm and confidence towards scientific research were adequate to tackle a minimum three years journey). This began first with a scicomms internship in DKFZ's Press Office, before a chance

reconnection to my previous employer (I worked a year before starting my Masters) presented me with an opportunity to re-join a big pharma in Hong Kong (moral of the story: your network counts, not matter what career stage you are at!). After the ASCO Meeting 2017 I wrote a Blog entitled "Beyond the lab: seven points about the commercial world of pharma from one who just started." [read more](#)

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## Stay Connected



### 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](mailto: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/alumni](http://www.dkfz.de/alumni)

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## Join DKFZ Connect

Join more than 1800 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](http://www.dkfz-connect.de)

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## Imprint

Responsible for the Content:  
Deutsches Krebsforschungszentrum  
Alumni Association  
Chairman: Prof. Dr. Manfred Schwab  
Editor: Susanne Schunk  
Im Neuenheimer Feld 280  
D-69120 Heidelberg, Germany  
Phone: +49 (0) 6221 42-4499  
E-Mail: [Susanne.schunk@dkfz.de](mailto:Susanne.schunk@dkfz.de)  
Internet: <http://www.dkfz.de/alumni/en>

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