

## GREETING

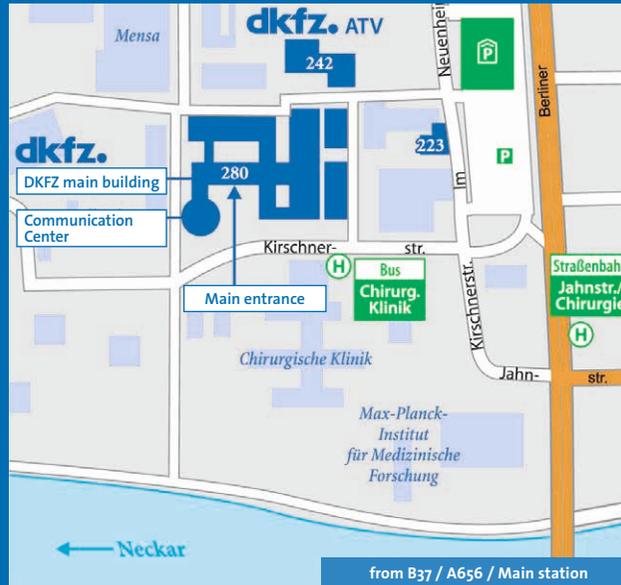
Worldwide, each year about 14.1 million people are diagnosed with cancer and 8.2 million die from the disease. Taking population growth and aging into account, the number of new cancer diagnoses is expected to increase to 21.7 million in 2030. About 40 percent of these cases could be prevented by systematic efforts to reduce lifestyle and environmental risk factors, such as smoking and poor diet, and by establishing and promoting vaccination and immunoprevention strategies. Additionally, early detection and screening approaches can substantially improve survival of cancer patients. Further advances in early detection may increase opportunities for curative treatment in the coming decades.



The **DKFZ CONFERENCE 2018** on Preventive Oncology will bring together internationally leading researchers who will present their recent work and expert views in the field of cancer prevention. As well as providing a broad overview of the diverse ongoing research activities in this area, the conference will provide an excellent networking platform for researchers to identify common interests and foster cooperative projects in cancer prevention.

I hope to see you at this exciting conference at the DKFZ in Heidelberg!

Prof. Dr. Michael Baumann  
Chairman and Scientific Director  
German Cancer Research Center (DKFZ)



### VENUE ADDRESS

German Cancer Research Center (DKFZ)  
Communication Center, Lecture Hall  
Im Neuenheimer Feld 280  
69120 Heidelberg, Germany

### PROGRAM COMMITTEE

Michael Baumann  
Ute Mons  
Petra Schrotz-King  
Karen Steindorf  
Holger Sültmann

### ORGANIZING TEAM

Alexia Arnold  
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[www.dkfz.de/conference2018](http://www.dkfz.de/conference2018)

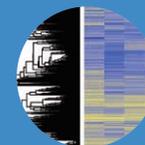
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CANCER RESEARCH CENTER  
IN THE HELMHOLTZ ASSOCIATION

Research for a Life without Cancer

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Research for a Life without Cancer

## DKFZ CONFERENCE 2018



## PREVENTIVE ONCOLOGY:

## Facing the Challenges of Cancer Prevention and Early Detection

February 15 – 16, 2018

German Cancer Research Center (DKFZ)

Design: Dagmar Anders, DKFZ, 2018

## THURSDAY, 15<sup>TH</sup> FEBRUARY

- 12:00 Registration and get-together  
13:15 Welcome  
**Michael Baumann**, *DKFZ, DE*
- 13:30 **INTRODUCTORY LECTURE: Ernest Hawk**,  
*MD Anderson, US*  
Integrating cancer prevention through  
personal and public actions

### TOPIC 1 PRIMARY PREVENTION: Risk factor research aiming for practical interventions

Chairs: Ute Mons, Karen Steindorf

#### 1.1 Establishing novel interventional concepts against major cancer risk factors

- 14:15 **KEYNOTE: Jack Cuzick**, *Wolfson Institute of Preventive Medicine, GB*  
Progress in cancer prevention with  
therapeutic agents
- 14:45 **Xifeng Wu**, *MD Anderson, US*  
Precision HealthHub: to improve health and  
reduce cancer burden
- 15:05 **Augustin Scalbert**, *IARC, FR*  
Exploring the role of environmental risk  
factors for cancer through metabolomics –  
state of the art and prospects
- 15:25 **Renée Turzanski-Fortner**, *DKFZ, DE*  
Sex steroid hormones and cancer:  
from etiology toward risk reduction
- 15:45 Coffee break and poster session

#### 1.2 Genetic predisposition/hereditary and familial cancer

- 16:45 **KEYNOTE: Judy E. Garber**, *Dana-Farber, US*  
Opportunities for cancer risk-reduction in inher-  
ited breast and ovarian cancer predispositions
- 17:15 **Karoline Kuchenbäcker**, *UCL, GB*  
Using prospective cohort data to estimate  
ovarian cancer risks for carriers of BRCA1 and  
BRCA2 mutations
- 17:35 **Mahdi Fallah**, *DKFZ, DE*  
Risk prediction for personalized cancer  
prevention: colorectal cancer as an example
- RECEPTION

## FRIDAY, 16<sup>TH</sup> FEBRUARY

### TOPIC 2 SECONDARY PREVENTION: Pushing the limits by earlier detection

Chairs: Petra Schrotz-King, Holger Sültmann

#### 2.1 Combining molecular diagnostics with expertise in epidemiology and bioinformatics

- 09:00 **KEYNOTE: Stephen J. Chanock**, *NCI, US*  
Detectable clonal mosaicism and susceptibility  
to cancer
- 09:30 **Johanna Schleutker**, *UTU, FI*  
Inherited mutations in aggressive prostate cancer
- 09:50 **Nicolas Wentzensen**, *NCI, US*  
Precision prevention of cervical cancer:  
addressing a global challenge
- 10:10 **Michael Hoffmeister**, *DKFZ, DE*  
Precision epidemiology of colorectal cancer:  
the integration of molecular tumor information
- 10:30 Coffee break

#### 2.2 Minimal invasive methods, including radiomics and liquid biopsies

- 10:45 **Ajay Goel**, *BSWRI, US*  
Liquid biopsy biomarkers in gastrointestinal  
cancers: an update
- 11:05 **Guillermo Barreto**, *MPI-HLR, DE*  
Non-invasive lung cancer diagnosis by  
detection of GATA6 and NKX2-1 isoforms  
in exhaled breath condensate
- 11:25 **David Bonekamp**, *DKFZ, DE*  
Novel approaches to multi-modal imaging for  
early detection of cancer
- 11:45 **KEYNOTE: Charles Swanton**, *The Crick, GB*  
Tracking cancer evolution and immune evasion
- 12:15 Lunch break and poster session

### TOPIC 3 TERTIARY PREVENTION: Improving life with cancer

Chair: Karen Steindorf

- 13:30 **KEYNOTE: Hermann Brenner**, *DKFZ, DE*  
An integrated view of primary, secondary and  
tertiary prevention – the example of colorectal  
cancer
- 14:00 **Marjanka Schmidt**, *NKI, NL*  
The risk-prognosis continuum: What do breast  
cancer risk variants tell us about breast cancer  
outcome?
- 14:20 **Jenny Chang-Claude**, *DKFZ, DE*  
Modifiable life-style factors that impact  
long-term breast cancer prognosis
- 14:40 **PERSPECTIVES LECTURE: Peter Boyle**, *iPRI, FR*  
Guidelines for a healthier and longer life
- 15:25 Summary and wrap-up  
**Michael Baumann**, *DKFZ, DE*
- 15:30 End of conference