

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!

G. Purnace

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



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www.dkfz.de/conference2018

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DKFZ CONFERENCE 2018



PREVENTIVE ONCOLOGY: Facing the Challenges of Cancer Prevention and Early Detection

February 15 – 16, 2018

German Cancer Research Center (DKFZ)

THURSDAY, 15TH 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, 16TH 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