

Friday, May 20

**Session III: STRATEGIES FOR IMPLEMENTATION
OF THERAPEUTIC BIOMARKERS IN CLINICAL
RADIATION ONCOLOGY**

Chairs: Mechthild Krause, Robert G Bristow

9:00-9:25 Clinical use of molecular biomarkers for predicting the response to radiotherapy (HNSCC, DKTK multi-institutional study) (**Michael Baumann, Germany**)

9:25-9:50 Biomarkers of normal tissue toxicity (**Daniel Gomez, USA**)

9:50-10:15 Biomarkers of tumor control probability (**Theodore Lawrence, USA**)

10:15-10:40 Quantitative Radiomics. A new way to look at imaging (**Philippe Lambin, Netherlands**)

10:40-11:05 Lessons learned from past trials and operational challenges (**Eric Deutsch, France**)

11:05-11:20 Coffee break

11:20-12:15 Round table discussion: Discovery of radiosensitizers and biomarkers for radiooncology: current status and translational challenges.

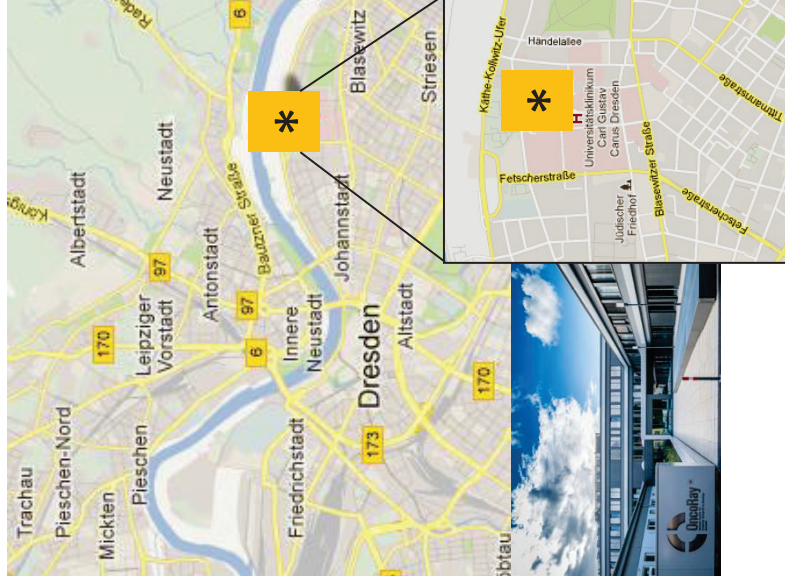
Chairs: Jürgen Debus, Germany, Esther Troost, Germany

Introduction: Jürgen Debus, Germany

Participants: Gilles McKenna, UK, Jens Overgaard, Denmark

Summary: Esther Troost, Germany

12:15-12:30 Concluding remarks



Venue

OncoRay – National Center
for Radiation Research in Oncology (House 130)
Händelallee 26, D-01309 Dresden.

Workshop Office

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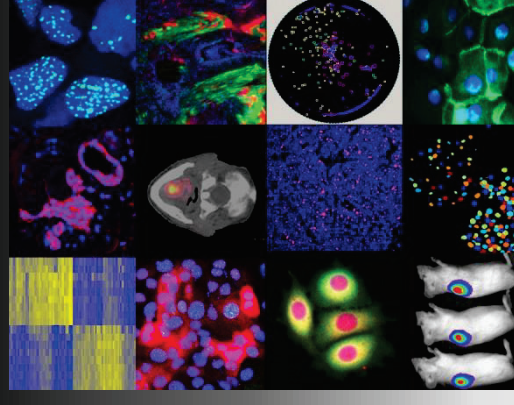


Language

The workshop language will be English
No simultaneous translation will be provided

Biomarkers for Radiation Oncology

Dresden, Germany,
18. – 20. May 2016



Organizers:

Anna Dubrovskaya, Conference chair

Michael Baumann

Mechthild Krause

Leoni Kunz-Schughart

Nils Cordes

Esther Troost



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Carl Gustav Carus



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in cooperation with DKTK partnersite Dresden
and NCT partnersite Dresden

The discovery, exploration and validation of biomarkers becomes increasingly important in clinical research and practice in the era of targeted therapy. Identification of the multiple biological parameters that may contribute to the differential response of tumors to radiotherapy drives the concept of individualized therapy. The aim of this workshop is to bring together the most recent insights and viewpoints on the predictive biomarkers for radiation oncology, from their preclinical development to clinical studies, and to find common ground for future collaborative studies.

- **Registration** opens on February 1, 2016 via email or fax using a special form ready for download at www.oncoray.de
- **Abstract submission deadline is April 20th, 2016**
- **Registration deadline is May 1st, 2016**
- **The registration fee is 100 Euro, student fee is 80 Euro including:** admittance to the workshop, the exhibition and catering (lunch and coffee) on both days
- **Confirmation of registration will be sent after receipt of registration form and fee**
- **Posters** are very welcome

Supported by the German Federal Ministry of Education and Research (Grant-No. 03Z1NN11)



Scientific program

Wednesday, May 18

19:00 Informal reception at OncoRay – National Center for Radiation Research in Oncology (House 130), Händelallee

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Thursday, May 19

8:00-8:15 Opening and welcome address (Michael Baumann / Mechthild Krause / Anna Dubrovskaja)

Session I: DISCOVERY OF NEW BIOMARKERS AND DEVELOPMENT OF INNOVATIVE TARGETING STRATEGIES FOR RADIATION ONCOLOGY

Chairs: Ruth J Muschel, Anna Dubrovskaja

8:15-8:40 Cancer stem cells, models of study and implications of therapy resistance mechanisms (Norman Maitland, UK)

8:40-9:05 Radiosensitization of glioblastoma stem cells (Anthony J Chalmers, UK)

9:05-9:30 Prostate cancer stem cells and radiotherapy (Anna Dubrovskaja, Germany)

9:30-9:55 Novel strategies to overcome tumor cell radioresistance (Geoffrey Higgins, UK)

9:55-10:15 Coffee break

10:15-10:40 Metabolic targeting of amino acids for radiosensitization (Leoni Kunz-Schughart, Germany)

10:40-11:05 Targeting chromatin to improve radiation response (Ester Hammond, UK)

11:05-11:30 Integrin targeting for tumor radiosensitization (Nils Cordes, Germany)

Proffered paper talks

11:30-11:45 – TBA

11:45 – 12:00 – TBA

12:00 – 13:00: **Poster “Spotlight” presentations**

13:00-14:00 *Lunch break and Poster session*

Session II: PRECLINICAL AND CLINICAL STUDIES OF THE BIOMARKERS FOR RADIATION ONCOLOGY

Chairs: Leoni Kunz-Schughart, Kai Rothkamm

14:00-14:25 Tumor stromal signatures associated with therapy resistance and prognosis (Catherine Park, USA)

14:25-14:55 Tumor genomic and microenvironmental heterogeneity as biomarkers for personalized prostate cancer medicine (Robert G Bristow, Canada)

14:55-15:20 Specific biomarkers for particle therapy (Amir Abdollahi, Germany)

15:20-15:35 Coffee break

15:35-16:00 Biomarkers for optimization of radiotherapy for brain tumor patients (Susan Short, UK)

16:00-16:25 Prognostic gene expression signatures in HNSCC (Monique De Jong, Netherlands)

16:25-16:55 Hypoxia-specific gene expression signature as prognostic and predictive markers (Brita Sørensen, Denmark)

16:55-17:20 Tumor microenvironment and radiation response (Ruth J Muschel, UK)

17:20-17:55 Noninvasive imaging and BsAb-based eradication of glioblastoma stem cells (Gabriele Niedermann, Germany)

17:55-18:20 Molecular profiles of circulating tumor cells as biomarkers to select the patients benefiting from radiotherapy and systemic therapy (Ingeborg Tinhofer-Keilholz, Germany)

Proffered paper talks

18:20 - 18:35 - TBA

18:35 - 18:50 - TBA

19:30 *Social dinner*