

Friday, May 20

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

Chairs: Prof. Mechthild Krause, Prof. Wolfgang Dörr

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

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

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

10:15-10:40 Radiomics for radiotherapy outcome prediction (Prof. Philippe Lambin, Netherlands)

10:40-11:00 Coffee break

11:00-11:45 Round table discussion: Discovery of radiosensitizers and biomarkers for radiooncology: current status and translational challenges.

Chairs: Prof. Jürgen Debus, Germany, Prof. Esther Troost, Germany

Introduction: Prof. Jürgen Debus, Germany

Participants: Prof. Gilles McKenna, UK, Prof. Jens Overgaard, Denmark

Summary: Prof. Esther Troost, Germany

11:45-12:00 Conclusion remarks and departure



Venue
OncoRay – National Center for Radiation Research in Oncology (House 130) Händelallee 28, D-01309 Dresden.

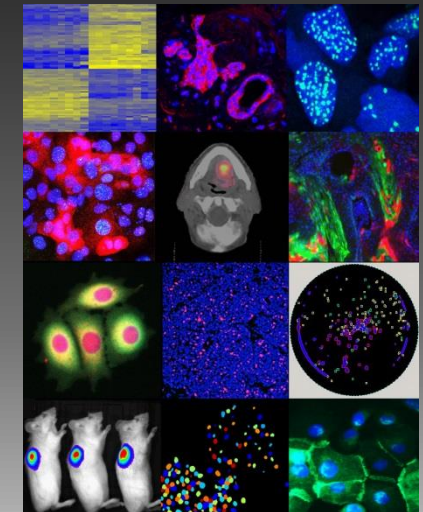
Workshop Office
CONTAG
Tel: +49 (351) 652 86 36 / 37
Fax: +49 (351) 652 86 38
E-Mail: info@contag-dresden.de



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

Biomarkers for Radiation Oncology

Dresden, Germany,
18. – 20. May 2016



Organizers:

Prof. Dr. Anna Dubrovskaya, Conference chair
Prof. Dr. Michael Baumann
Prof. Dr. Mechthild Krause
Prof. Dr. Leoni Kunz-Schughart
Prof. Dr. Nils Cordes
Prof. Dr. Esther Troost



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.
- **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.

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Scientific program

Wednesday, May 18

19:00 Informal reception at OncoRay – National Center for Radiation Research in Oncology (House 130), Händelallee 26

Thursday, May 19

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

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

Chair: Prof. Anna Dubrovskaja, Prof. Rob Coppes

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

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

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

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

9:55-10:15 Coffee break

10:15-10:40 Noninvasive imaging and BsAb-based eradication of glioblastoma stem cells (**Prof. Gabriele Niedermann, Germany**)

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

11:05-11:30 Integrin targeting (**Prof. 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

Chair: Prof. Leoni Kunz-Schughart, Dr. Kai Rothkamm

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

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

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

15:20-15:35 Coffee break

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

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

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

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

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

Proffered paper talks

17:55 - 18:10 - TBA
18:10 - 18:25 - TBA
18:25 - 18:45 – TBA

19:30 Social dinner