



Programme International Conference GRK 1739

DNA DAMAGE AND BEYOND: From molecular mechanisms to innovative concepts in the treatment of cancer

25-26 October 2019, Essen

Friday, 25.10.2019

14:30 Welcome with coffee and tea

14:55 Welcome address **Jan Buer**, Dean Medical Faculty

15:00 INTRODUCTION GRK 1657 Darmstadt, **Daniel Pfeffel**
and GRK 1739 Essen, **Isabell Götting**

15:30 YOUNG INVESTIGATOR SESSION: Meet the Expert with all speakers
Until 16:30

Chair: Eric Metzen und Sina Bader

16:45 YOUNG INVESTIGATOR LECTURE
Julian Stingele, University München
DNA-protein crosslinks: endogenous origins and cellular responses

17:30 KEYNOTE ADDRESS
Mark Dewhirst, Duke University, Durham
**Mechanisms underlying tumor hypoxia development and a new perspective on
how to eliminate it in the context of targeted therapies**
Until 18:15

19:00 Dinner Restaurant Hülsmannshof, Lehnsgrund 14A, 45149 Essen



Saturday, 26.10.2019

09:00 Poster viewing

Chair: Wolfgang Fendler und Gerasimos Pollakis

09:30 KEYNOTE ADDRESS

Harald Paganetti, Massachusetts General Hospital, Boston

Generic and personalized biological treatment optimization in proton therapy

10:15 INVITED TALK

Fijs van Leeuwen, University Medical Center, Leiden

Image guided surgery - transitioning from morphological imaging to the imaging of molecular targets

10:45 *Coffee break*

Chair: Martin Stuschke und Katharina Falke

11:15 INVITED TALK

Peter van Luijk, University of Groningen

Novel approaches to normal tissue sparing: target cell localization and organ interactions

11:45 PROFFERED PAPER TALK

Ann-Charlotte Ribbert, University Darmstadt GRK 1657

Impaired DSB repair after low doses of X-rays may be due to a lack of activation of DNA-PK

12:00 PROFFERED PAPER TALK

Yasin Bahadir Erol, University Hospital Essen GRK 1739

Mre11 Inhibition leads to enhancing of radiosensitizing effect of cisplatin in Non-small Cell Lung Carcinoma (NSCLC) cells

12:15 PROFFERED PAPER TALK

Cläre von Neubeck, University Hospital Essen, Clinic for Particle Therapy

Residual γ H2AX foci – a biomarker to predict patient's tumor response to photon-based radiotherapy?

12:30 *Lunch and Poster Discussion Session*



Chair: Martin Schuler und Shakila Mir

14:15 INVITED TALK

Holger Sültmann, DKFZ and NCT Heidelberg

Monitoring tumor therapy with liquid biopsies

14:45 INVITED TALK

Christian Reinhardt, University Hospital Köln

Targeting defects in the DNA damage response for genotype-stratified cancer therapy

Chair: Dominik Boos und Akram Hamidi

15:15 INVITED TALK

Ranjit Bindra, Yale School of Medicine, New Haven

Exploiting unexpected metabolic vulnerabilities in adult and pediatric glioma using novel radiosensitization approaches: Bench-to-bedside at the speed of Yale Science

15:45 PROFFERED PAPER TALK

Johann Matschke, University Hospital Essen

Targeting mitochondrial citrate carrier SLC25A1 induces HR-ness phenotype and increases efficacy of radiotherapy

16:00 *Coffee break*

Chair: Diana Klein und Christine Hansel

16:15 KEYNOTE ADDRESS

Fei-Fei Liu, Ontario Cancer Institute, Toronto

Challenges and Opportunities in Targeting Metabolic Dysregulation for Radiation Fibrosis

17:00 Award Poster Price

17:15 Departure

Venue

Universitätsklinikum Essen, Medizinisches Forschungszentrum

Hufelandstr. 55, 45122 Essen