

GBS 2018 Frankfurt – Congress Program

Monday, September 17th 2018

08:30	17:00	On-site registration, Theodor-Stern-Kai 7, 60590 Frankfurt am Main
GBS Young Investigators Session		
Chairs: Julia Hess (Munich) and Franz Rödel (Frankfurt)		
10:00	10:45	Dorota Lubgan (Erlangen) Clinical study secretary
10:45	11:15	Benjamin Frey (Erlangen) Translational Research: Biological point of view
11:15	11:45	Daniel Martin (Frankfurt am Main) Translational Research: Clinical point of view
11:45	12:45	Coffee Break
Opening Ceremony		
12:45	13:00	Franz Rödel (Congress President)
		Josef Pfeilschifter (Dean Faculty of Medicine)
		Michael Hausmann (President Society of Biological Radiation Research)
Mechanisms of DNA Repair and DNA Damage Response induced by ionizing and non-ionizing radiation		
Chairs: Kerstin Borgmann (Hamburg) and Alexander Rapp (Darmstadt)		
13:00	13:30	Keynote presentation Michael Ensminger (Darmstadt) Nek1 coordinates the repair of one-ended DSBs with cell-cycle progression
13:30	13:45	Sara Timm (Homburg Saar) Clustered DNA damage concentrated in particle trajectories causes persistent large scale rearrangements in chromatin architecture

14:00	14:15	Wael Mansour (<i>Hamburg</i>) A novel role for RAP80 in double strand break repair pathway choice through controlling EXO1 stability. RAP80 regulates double strand break end resection and repair pathway choice through targeting EXO1 to proteasomal degradation
14:15	15:45	Coffee Break and Guided Poster Session (PS)- 1
15:45	16:00	Jannek Brauer (<i>Heidelberg</i>) Mesenchymal stem cells after UV-irradiation
16:00	16:15	Carina Barent (<i>Darmstadt</i>) RNF138 stimulates DNA end resection upon heavy ion irradiation in human G1-phase cells
16:15	16:30	Stefanie Mamberti (<i>Darmstadt</i>) Interplay of DNA replication, repair and chromatin under radiation stress
16:30	16:40	Ekkehard Dikomey (<i>Hamburg</i>) Introduction to Current Joint Research Projects (KVSF)
16:40	16:55	Highlights of Current Joint Research Projects DNA repair George Iliakis (<i>Essen</i>) Complex DNA lesions and their impact on cellular responses after irradiation
GBS Awards Ceremony		
Chairs: Michael Hausmann (Heidelberg) and Franz Rödel (Frankfurt)		
17:00	19:00	Ulrich Hagen Award
		Dieter Frankenberg Award
		Best Paper of the Year Awards
19:00		Get Together with Brezels, Äppelwoi and Beer

Tuesday, September 18th 2018

08:55	09:00	Opening day 2
<h3>The Immune System in the Context of Radiobiology: Tissue microenvironment and systemic effects</h3>		
<p>Chairs: Kirsten Lauber (Munich) and Claudia Fournier (Darmstadt)</p>		
09:00	09:30	Keynote presentation Udo Gaipl (Erlangen) Immune biological rationale for the design of radioimmunotherapies
09:30	09:45	Florian Wirsdörfer (Essen) CD4+ T-Lymphocytes play a pathogenic role in radiation-induced lung fibrosis
09:45	10:00	Hua Jing (Freiburg) Combination treatment with radiotherapy plus IL-2/anti-IL-2 complexes and its theranostic evaluation
10:00	10:15	Lisa Deloch (Erlangen) 0.5Gy of X-rays have a positive impact on local bone metabolism as well as systemic inflammation
10:15	11:45	Coffee Break and Guided Poster Session (PS)-2
11:45	12:00	Katja Niesel (Frankfurt am Main) Effects of Ionizing irradiation on brain metastasis-associated inflammation and its implication for immunotherapy
12:00	12:15	Highlights of Current Joint Research Projects Claudia Fournier (Darmstadt) Genetic risk and anti-inflammatory effects of low doses of radon exposure (GREWISalpha Project)
12:15	13:35	Lunch Break
<h3>Strategies to optimize Radiation Response in Malignant Cells/Tumors and Radiation Protection in Non-malignant Cells/Tissue</h3>		
<p>Chairs: Anne Vehlow (Dresden) and Benjamin Frey (Erlangen)</p>		
13:35	14:05	Keynote Lecture Frank Pajonk (Los Angeles, USA) Cancer therapies and cellular plasticity
14:05	14:20	Stefanie Moritz (Dresden) Lamellipodin mediates radioresistance and invasion in Glioblastoma

14:20	14:35	Johann Matschke (<i>Essen</i>) Targeting of antioxidant-associated mitochondrial carboxylate (mCB) transport systems overcomes chronic-cycling hypoxia-induced radioresistance
14:35	14:50	Sabrina Köcher (<i>Hamburg</i>) A functional ex vivo assay to detect PARP1-EJ repair and radiosensitization by PARP-inhibitor in prostate cancer
14:50	16:20	Coffee Break and Guided Poster Session (PS)-3
16:20	16:35	Justine Rudner (<i>Essen</i>) Ionizing radiation improves long-term cytotoxicity of the reactive oxygen species producing compound dihydroartemisinin
16:35	16:50	Ramon Lopez Perez (<i>Heidelberg</i>) Carbon ion radiation for treatment of endometrial cancer and the potential benefit of combined PARP inhibition
16:50	17:05	Highlights of Current Joint Research Projects Horst Zitzelsberger (<i>Munich</i>) Systems analysis of signaling networks and molecular determinants of the radiation response (ZISStrans)
17:05	18:30	GBS General Assembly (members only)
19:30		GBS Social Evening (Ruderclub Germania, Schaumainkai 65, 60596 Frankfurt)
		Travel grants George Iliakis: History of Radiation Research in Frankfurt: A personal experience

Wednesday, September 19th 2018

08:55		Opening day 3
Radiobiology meets the clinics: Biomarkers, Translational Research and Clinical Studies		
Chairs: Verena Jendrossek (Essen) and Klaus Dittmann (Tübingen)		
09:00	09:30	Keynote Lecture: N.N. Translational Research: Expectations and efforts from the clinics
09:30	09:45	Carola Hartel (<i>Darmstadt</i>) Effect of X-rays and accelerated Carbon-ions on tumorsphere formation and marker expression of glioma stem cells
09:45	10:00	Inaki Schniewind (<i>Dresden</i>) Effects of proton irradiation on epigenetic marks and cancer stem cells
10:00	11:30	Coffee Break and Guided Poster Session (PS)-4
11:30	11:45	Stefan Stangl (<i>Munich</i>) Peptide-based diagnostic <i>in vivo</i> targeting of membrane Hsp70 positive tumors
11:45	12:00	Aadhya Tiwari (<i>Tübingen</i>) Y-box binding protein-1 is the major regulator of tumor growth and radioresistance in triple-negative breast cancer
12:00	12:15	Christoph Oing (<i>Hamburg</i>) Inhibition of histone H2B monoubiquitination impedes homologous recombination and (re-)sensitizes towards genotoxic treatment in a germ cell cancer model
12:15	12:30	Highlights of Current Joint Research Projects Claudia Rübe (<i>Homburg Saar</i>) DNA repair foci as a marker for individual radiosensitivity
12:30	13:30	Awards Ceremony and Farewell Best Posters Awards and Welcome to GBS 2019
13:30		End of the Conference