



Sunday, September 17, 2023

17:00	19:00	Registration, dinner (18:00-20:00) optional
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Monday, September 18, 2023

DeGBS Young Investigators Session

Chairs: Johann Matschke, Alexander Helm

10:00	11:45	Martin Mynarek, Nina Struve (UK Eppendorf) <i>Collaborating for a better Outcome in pediatric medulloblastoma - from preclinical testing to clinical trials</i>
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9:00	12:45	Registration, lunch (12:00 – 12:45)
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Opening Ceremony

12:45	12:50	Michael Scholz, Claudia Fournier (Organizing Committee)
12:50	13:00	Verena Jendrossek (President, German Society of Biological Radiation Research)

Sponsored by:



Monday, September 18, 2023 (continued)

Session I: Basic mechanisms of radiation action of different radiation qualities Track structure, DNA-damage clustering, DNA-damage response, cell death, senescence		
Chairs: Johanna Mirsch, Emil Mladenov		
13:00	13:30	Keynote Lecture I Mark Hill (MRC, Oxford) <i>Radiation track structure: how does their spatial and temporal properties drive the radiobiological response?</i>
13:30	14:45	Proffered Papers I Oliver Mokross (TU Darmstadt) <i>Impaired DSB repair after low doses of X-rays may be due to a regulatory interaction of PRDX2 and DNA-PK</i>
13:30		Thomas Friedrich (GSI Darmstadt) <i>Relevance of uncertainties in experimental radiobiological data base for the assessment of theoretic effect models</i>
13:45		Michael Hausmann (Univ. Heidelberg) <i>Topological changes of the whole chromatin of cell nuclei during DNA repair as a collective response to radiation induced damages</i>
14:00		Razan Hessenow (WP Essen) <i>Radiation quality-dependent sensitization of cancer cells: the role of DNA repair defects and metabolic activity</i>
14:15		Michael Ensminger (TU Darmstadt) <i>POLθ-mediated end-joining is restricted by RAD52 and BRCA2 until the onset of mitosis</i>
14:30		
14:45	15:15	Coffee Break
15:15	16:45	Poster Session I

Special Topic		
Chair: Sebastian Zahnreich		
16:45	17:15	Anna Friedl (LMU München) <i>Scientific challenges of modern radiation protection research</i>
DeGBS Awards Ceremony		
Chairs: Verena Jendrossek, Udo Gaipl		
17:15	18:15	Commemoration Gerhard Kraft Ulrich Hagen Award: Horst Zitzelsberger (Helmholtz Zentrum München) Laudatio: Kirsten Lauber Dieter Frankenberg Award: Johanna Mirsch (TU Darmstadt)
18:15		Dinner

Tuesday, September 19, 2023

08:25	08:30	Opening day 2: Michael Scholz, Claudia Fournier	
Session II: Signaling: Impact of radiation on intra- and intercellular communication Gene and protein expression, post-translational modifications, epigenetics, microenvironment, signal transduction, non-coding RNA			
Chairs: Diana Klein, Martin Selmansberger			
08:30	09:00	Keynote Lecture II Alexander Löwer (TU Darmstadt) <i>Keeping the guardian alert: how p53 differentiates between acute and sustained DNA damage in individual cells</i>	
09:00	10:15	Proffered Papers II Ilaria Ghio (TU Darmstadt) <i>Repair fidelity of radiation induced DNA double-strand breaks in G1-phase cells</i> Tina Jost (Univ. Erlangen) <i>Anti-tumor mechanisms of DNA damage repair inhibitors interfering with radiotherapy</i> Gargi Tewary (Univ. Homburg) <i>Immunomodulatory effects of histone variant H2A.J in ionizing radiation dermatitis</i> Roman Hennel (LMU München) <i>Cell fate decisions during the recovery of breast cancer cells upon fractionated radiotherapy</i> Johann Matschke (UK Essen) <i>Identification and preclinical validation of synthetic lethality approaches with radiotherapy and PARP1/2-targeting enabled by metabolic induction of HRness</i>	
10:15	10:30	Coffee Break	
10:30	12:00	Poster Session II	
12:00	13:15	Lunch Break	

Tuesday, September 19, 2023 (continued)

Session III: Systemic and extra-cellular factors affecting radiation response Microbiome, metabolism, microenvironment, senescence, immune system, chemotherapy		
Chairs: Lisa Deloch, Nikko Brix		
13:15	13:45	Keynote Lecture III Nadja Salomon (TRON, Mainz) <i>The immunostimulatory side of radiotherapy – radiotherapy combinations with mRNA vaccines</i>
13:45	15:00	Proffered Papers III Franz Rödel (Univ. Frankfurt) <i>Biomarker signatures as predictors for treatment response to chemoradiotherapy in anal carcinoma</i> Cristina Totis (GSI Darmstadt) <i>Molecular mechanisms of the increased immunogenicity of osteosarcoma cells after carbon ion exposure</i> Kristian Unger (Helmholtz Zentrum München) <i>HNSCC ecotypes: tumor microenvironment subtypes of HPV-negative head and neck squamous cell carcinoma</i> Lia Mogge (Univ. Erlangen) <i>Epithelia-neutrophil interactions after radiotherapy of head and neck squamous cells carcinoma</i> Benedek Dankó (Helmholtz Zentrum München) <i>Metabolic pathway-based subtypes in HNSCC reveal an association between glycan biosynthesis and radiotherapy response</i>
15:00	15:15	Coffee Break
15:15	16:45	Poster Session III
16:45	18:00	DeGBS General Assembly (members only)
18:30	23:00	DeGBS Conference Dinner

Wednesday, September 20 2023

08:25	08:30	Opening day 3: Claudia Fournier, Michael Scholz	
Session IV: Joint Session DEGRO/ DeGBS Innovative approaches for radiotherapy: Physics and radiobiology Spatial and temporal fractionation (mini-beam and others), FLASH, radio-immunotherapy			
Chairs: Franziska Eckert, Elena Sperk			
08:30	9:00	Keynote Lecture IV Jeannette Jansen (Univ. Lausanne) <i>Innovative approaches for radiotherapy: Physics and radiobiology in the FLASH-effect</i>	
09:00	10:30	Poster Session IV	
10:30	10:45	Coffee Break	
10:45	12:00	Proffered Papers IV Insa Schröder (GSI Darmstadt) <i>Better chances for glioblastoma patients? Using human brain organoids to study CNS effects and tumor control after high- and low-LET radiation exposure</i>	
10:45			
11:00		Nina Struve (UK Eppendorf) <i>Inhibition of PARP results on highly effective radiosensitization of MYC-amplified medulloblastomas</i>	
11:15		Judith Reindl (Univ. d. Bundeswehr München) <i>Planar proton minibeam irradiation elicits spatially confined DNA damage in a human epidermis model</i>	
11:30		Vladislav Sandul (GSI Darmstadt) <i>Dosimetric blood flow model for dose calculation to blood lymphocytes and radiation induced lymphopenia risks assessment</i>	
11:45		Katharina Gehr (LMU München) <i>Analysis of clonogenic growth in vitro: Head-to-head comparison of the colony formation assay (CFA) and the limiting dilution assay (LDA)</i>	
12:00	12:30	Awards Ceremony and Farewell	
12:00		Best Posters Awards (tbd) and Welcome to jDeGBS 2024	
12:30		End of the Conference	
12:45	13:30	Lunch	