

Annual Conference of the German Society for Biological Radiation Research 2025

From Basic Science to Clinical Applications

Scientific Program



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Monday, September 29 th 2025							
08:30	12:45	Registration					
DeGE	DeGBS Young Investigators' Session						
	Replace, Reduce, Refine – Innovative Strategies for Translational Radiation Research						
Chairs: Lisa Deloch, Johann Matschke							
10:00	10:30	Invited Talk E-O1: Modelling resistance to therapy using an oral cancer organoid biobank Kai Kretzschmar, University Hospital Würzburg					
10:30	11:00	Invited Talk E-O2: The use of the CAM model to access tumor heterogeneity Regine Schneider-Stock, University Hospital Erlangen					
11:00	11:30	Invited Talk E-O3: Advancing preclinical radiotherapy research using 3D bioprinted lung cancer models and experimental irradiation platforms Jens Kurreck, Technical University Berlin					
11:30	12:00	Networking and Exchange					
12:00	12:45	Lunch Break					
Oper	ning C <u>e</u>	remony and Welcome Address					
12:45		Horst Zitzelsberger, Anna Friedl, and Kirsten Lauber, Organizing Committee					
12:55	13:05	Udo Gaipl, President of the DeGBS					
13:05	13:15	Julia Mayerle, Vice Dean of the Medical Faculty of the LMU München					
Sessi	on A: F	undamental Mechanisms of Cellular Responses to Radiation					
		esponse and Cell fate decisions					
Chairs	: Ulrike T	heiß and Roman Hennel					
13:15	13:45	Keynote A-K1: Mitochondria at the hub of cell death and immunity in irradiated cancer cells Lorenzo Galluzzi, Fox Chase Cancer Center, Philadelphia, USA					
13:45	15:00	Proffered Papers Session A					
13:45	13:55	Sponsor Spotlight: OncoMed-Solutions					
13:55	14:10	A-O1: Multi-modal computational analyses reveal motifs of interferon signaling and DNA repair as hallmarks of the radiation response in HNSCC Rosario Astaburuaga-Garcia, Charité University Medicine Berlin					
14:10	14:25	A-O2: Inhibition of polymerase theta overcomes replication-associated radioresistance in triple- negative breast cancer cell lines Marie Vogt, University Hospital Hamburg Eppendorf					
14:25	14:40	A-O3: Analysis of radiation-induced senescence in vitro Katharina Gehr, LMU University Hospital München					
14:40	14:55	A-O4: Inhibition of PARP results in highly effective radiosensitization of paediatric brain tumors without affecting normal tissue Nele Koeppen, University Hospital Hamburg Eppendorf					
15:00	17:00	Posters and Coffee Session A, in parallel: Meet and Greet Physics					
Speci	ial Topi	c: Scientific publishing					
Chairs: Horst Zitzelsberger and Kirsten Lauber							
17:00	17:30	Scientific Publishing: Insights from an Editor-in-Chief Seamus Martin, Editor-in-Chief, The FEBS Journal					
DeGBS Awards Ceremony							
Chairs: Udo Gaipl and Kirsten Lauber							
17:30	18:30	Ulrich-Hagen Award, Best-Paper-of-the-Year Award					
19:00	20:30	Dinner, followed by an optional stroll through the Oktoberfest					

Tuesday, September 30 th 2025						
08:25 08:30 Opening day 2						
Session B: Signaling & Adaptive Mechanisms in Cellular Responses to Radiation Signal transduction, Epigenetics, Different radiation qualities, Temporal & spatial fractionation						
Chairs: Nina Struve and Benjamin Frey						
08:30	09:00	Keynote B-K1: Experimental data from FLASH - Which factors matter Brita Singers Sørensen, Aarhus University Hospital, Denmark				
09:00	10:15	Proffered Papers Session B				
09:00	09:10	Sponsor Spotlight: X-Strahl				
09:10	09:25	B-O1: Hypofractionated particle therapy improves tumor control and preserves healthy tissue in brain tumor organoids Tamara Bender, GSI Darmstadt				
09:25	09:40	B-O2: Spatial astrocyte distribution in mice after partial-brain proton irradiation Robin Hegering, Technical University Dortmund				
09:40	09:55	B-O3: Damage-specific p21 response to radiation and toxin exposure Christian Mielke, University Hospital Düsseldorf				
09:55	10.10	B-O4: Six-month evaluation of normal mouse brain side effects: Comparing FLASH and conventional irradiation Elke Beyreuther, Helmholtz Center Dresden-Rossendorf				
10:15	12:15	Posters and Coffee Session B, in parallel: Meet and Greet Medicine				
12:15	13:15	Lunch Break				
Sessi	on C: C	Cell-extrinsic & Systemic Factors Modulating Cellular Responses to Radiation				
		eractions, Microenvironment, Immune system				
Chairs	: Thoma:	s Friedrich and Michael Rückert				
13:15	13:45	Keynote C-K1: PRiSM – Personalized Radiotherapy with integrated Scientific Modeling Heiko Enderling, MD Anderson Cancer Center, Houston, USA				
13.45	15:00	Proffered Papers Session C				
13:45	13:55	Sponsor Spotlight: SmART Scientific Solutions				
13:55	14:10	C-O1: Influence of HPV Status in HNSCC cells on the polarisation of tumor-associated fibroblasts Elia Heid, University Medicine, Goethe University Frankfurt/Main				
14:10	14:25	C-O2: Modulation of T cell activation in HNSCC through combined DNA damage response inhibition, radiotherapy, and PD-1/PD-L1 axis inhibition Anna Gottwald, University Hospital Erlangen				
14:25	14:40	C-O3: Effect of ¹² C-ion irradiation in combination with PD-L1 inhibitors in lung tumor cells and tissue Naomi Metten, Philipps-University Marburg				
14:40	14:55	C-O4: Comparative Study of immune cell composition and recovery in a pneumonitis mouse model of radiation-induced lung injury Mario Hetzel, University Hospital Essen				
15:00	17:00	Posters and Coffee Session C, in parallel: Meet and Greet Biology				
17:00	18:00	DeGBS General Assembly				
		Members only please				
19:00	00:00	Social Evening in Biergarten Waldheim				



Wednesday, Oct 1st 2025

08:25 08:30 Opening day 3

Session D: Innovative approaches in radiotherapy, Joint session DEGRO/ DeGBS					
Personalized & Combined modality treatment approaches, Predictive & Prognostic markers					
Chairs: Elena Sperk and Julia Heß					
08:30	09:00	Keynote D-K1: Tumor-to-draining lymph node communication is highly relevant for successful radioimmunotherapy Martin Pruschy, University Hospital Zurich, Switzerland			
09:00	10:45	Posters and Coffee Session D, in parallel: Meet and Greet 3R & Green Lab			
10:45	11:45	Proffered Papers Session D			
10:45	11:00	D-O1: Adding the PPAR α agonist enhances T cell-mediated effects of RT in combination with anti-PD-1 Meidan Wang, University of Freiburg			
11:00	11:15	D-O2: PD-L1/PD1 Expression patterns define distinct tumor immune microenvironment subgroups in HNSCC in association with chemoradiation response Benedek Dankó, LMU University Hospital München			
11:15	11:30	D-O3: Defining predictive immune markers by immune monitoring and machine learning from the blood of HNSCC patients in the prospective DIREKHT trial Anna-Jasmina Donaubauer, University Hospital Erlangen			
11:30	11:45	D-O4: Intraoperative radiotherapy (IORT) induces local and systemic immune effects in breast cancer patients Nikko Brix, LMU University Hospital München			
11:45	12:15	Awards Ceremony and Farewell			
Chairs: Horst Zitzelsberger, Anna Friedl, and Kirsten Lauber					
		Best Poster Awards, Best Presentation Award, and Welcome to jDeGBS 2026			

WiFi Access: Pegasus Direct Password: 20Eom-Peg@25



Lunch and End of the DeGBS Annual Conference 2025

Stay tuned for the Satellite Symposium starting at 13:30...

