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Seminar Programme „GRK 2762 / Radiation Sciences“

Venue: Institute of Cell Biology, Virchowstr. 173, 1st floor, seminar room 1.017

2023 / 2024	Student chair	Lecture 17:00 – 17:45 (incl. 15 min. discussion)	Progress Report 17:45 – 18:30 (incl. 15 min. discussion)	Signature
10.10.	Janina Janetzko	Fanghua Li Cell cycle and growth status functions as a key factor for DNA damage response	Teresa Bernardo Preclinical research on the proton therapy of sarcoma against the background of a variable LET-RBC concept, fractionation and sequence	
24.10.	Maja Buchholzki	Nils Blüthgen Combining single cell analysis and computation to characterise treatment resistance and heterogeneity in solid tumors.	- cancelled -	
21.11.	Razan Hessenow & Ramtin Omid Shafaat	Horst Zitzelsberger Systems Approaches in translational radiation oncology	Vuk Dinovic Radiotherapy-induced tumor and stromal cell state regulation in PDAC	
04.12. (Monday)	Nina Dietzel & Enver Deniz	François Paris Involvement of the vascular compartment in the efficacy of radiotherapy	Wei You Effects of the topological disorganisation of chromatin by CTCF suppression on DSB induction, DSB-induced signalling and the choice of the DSB repair pathway	
19.12.	Lara Breuer & Vuk Dinovic	Sophie Dobiasch Establishment and use of preclinical models for PDAC	Mikhail Kunin Metabolic induction of cancer cell radiosensitivity to IR	

16.01.	Sarah Etemadi Afshar & Marina Martínez Cruz	Nina Struve The radiobiology of medulloblastoma: From preclinical testing to clinical trials	Katharina Eul Influence of altered metabolic pathways on the therapeutic radiation response of (head and neck) tumors	
30.01.	Adila Apsara & Janina Janetzko	Adam Kryzstofiak Direct targeting of gene amplifications by activating DNA damage response for molecular cancer therapy	Enver Deniz Radioligand therapy-induced DNA damage repair pathways in prostate cancer as mediators of resistance	
13.02.	Lara Schmalenstroer & Mario Hetzel	Heiko Enderling From chalkboard to bedside – digital twins to guide clinical decision making	Lara Schmalenstroer Mathematical Modeling of Targeted Radiotherapy in PDAC	
06.03. (Wednesday)	Marina Martínez Cruz & Julia Asche	Barbara Grünwald Spatial heterogeneity of the TME	Ramtin Omid Shafaat Interplay of exosomal miRNAs and genomic alteration in radiation response modulation and use as prognostic factors in NSCLC	

Format: For each seminar a **nominated student chair** will lead and host the discussion with the session's **assigned scientific coordinator** taking a supportive background role. Thus, the hosts are expected to prepare well to ensure a lively discussion, also selecting people in the audience to respond ad hoc.