19th Annual Meeting of the Society for Biological Radiation Research 26^{th} to 28^{th} September 2016

Monday, September 26th 2016

8:30	15:00	On-site Registration (Cauerstr. 11, 91058 Erlangen)			
9:45	10:00	Opening GBS Young Investigators (YI) Session Cläre von Neubeck (Young Investigators) and Udo Gaipl (Congress President)			
10:00	11:00	Invited Lecture			
		Michael Scholz (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt) Integrative Science – Interplay of Physics, Biology and Medicine in Radiation Research			
11:00	11:30	Invited Lecture			
		Katrin Schiebel and Nora Anton (Friedrich-Alexander-Universität Erlangen-Nürnberg)			
11:30	12:00	National and International Opportunities for Young Investigators Invited Lecture			
11.50	12.00	Serge M. Candéias (CEA-Grenoble, France)			
12:00	10.45	Biomedical Research in France			
12:00	12:45 13:15	Lunch Break GBS YI Opening ceremony			
		Prof. Dr. Udo Gaipl (Congress President, Universitätsklinikum Erlangen)			
		Prof. Dr. Joachim Hornegger (President of Friedrich-Alexander-Universität Erlangen-Nürnberg) Dr. Florian Janik (Lord Mayor of Erlangen)			
		Prof. Dr. Rainer Fietkau (Head of Department of Radiation Oncology, Universitätsklinikum Erlangen)			
DNA damage and related responses induced by ionizing and non-ionizing radiation					
		hairs: Luitpold Distel, Erlangen and Thorsten Rieckmann, Hamburg			
13:15	13:45	Keynote Presentation Gerhard Fritz (Universitätsklinikum Düsseldorf)			
		DNA damage and related stress responses stimulated by ionizing radiation (IR): prevention of IR-			
		induced normal tissue damage by statins			
13:45	14:00	Markus Wolfien (University of Rostock)			
44.00	4445	NGS based analysis for structural DNA variation with applications to radiation research			
14:00	14:15	Jörg Fahrer (University Medical Center Mainz) Protein kinase B/AKT curtails pro-survival autophagy induced by DNA double-strand breaks			
14:15	14:30	Anna FriedI (Ludwig-Maximilians-University of Munich)			
		Depletion of histone demethylase Jarid1A resulting in histone hyperacetylation and radiation			
14:30	14:45	sensitivity does not affect DSB repair Fabian Weipert (Goethe-University Frankfurt/Main)			
	-	The threonine 34 phosphorylation site of Survivin is essential for modulating the non-homologous			
14:45	15:00	end-joining DNA damage repair pathway Katharina Mück (Eberhard Karls University Tuebingen)			
11.10	10.00	Role of Akt1 and Akt3 in homologous recombination-dependent repair of ionizing radiation-induced			
15:00	15:15	DNA DSB Thorsten Rieckmann (University Medical Center Hamburg Eppendorf)			
10.00	10.10	Extensive resection of newly replicated DNA in irradiated HPV-positive HNSCC cell lines			
15:15	15:50	Coffee Break			
15:50	17:00	Bullet Poster Session			
		Detailed program see next page			
17:00	17:30	Coffee Break			
17:30	19:30	Award Ceremony (I) Ulrich-Hagen-Award			
		Dieter-Frankenberg-Award			
19:30		Open Poster Session and Ice Breaker with Brezel and Franconian Beer			

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	Bullet Poster Session (detailed program) hirs: Serge M. Candéias, Grenoble, France and Michael Orth, München
15:50 17:00	 ✓ Each speaker has the possibility to draw the attention to her/his research topic. ✓ Each participant has 3 slides and 3 min for the presentation. ✓ After the 3 min the speech will be stopped by the chairpersons.
	DNA damage and related responses induced by ionizing and non-ionizing radiation
	Ann Christin Parplys (University Medical Center Hamburg-Eppendorf) Radioresistance is determined by recruitment of DNA repair factors to replication forks in a PTEN- dependent manner
	Viviane Ponath (University Medical Center Mainz) DNA repair deficiency in the myeloid lineage of the human immune system
	Daniela Kraft (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt) The DNA damage response is different in human hematopoietic stem and progenitor cells compared to differentiated cells from peripheral blood
	Matthias Krufczik (Kirchhoff-Institute for Physics, Heidelberg) Analysing Nucleosomal Arrangements after Irradiation and during Repair with High Resolution Localisation Microscopy
	Friedo Zölzer (University of South Bohemia, České Budějovice, Czech Republic) Micronuclei as indicators of radon exposure
	Biomarkers and strategies to modify radiation responses as well as imaging the effects of radiation exposure
	Paul Rühle (Universitätsklinikum Erlangen) RAD-ON01 study: Modulations in the serum levels of the pro-inflammatory cytokine IL-18 following radon spa treatment
	Marco Rainer Kesting (Technische Universität München) Post radiogenic wound healing disorders following surgical intervention to the head and neck
	Margret Rave-Fränk (Universitätsmedizin Göttingen) Impact of anaerobic condition-related transporters on outcome after definitive radiochemotherapy (RCT) in head and neck squamous carcinoma
	Mahmoud Toulany (University of Tübingen) Dual targeting of PI3K and MEK enhances the radiation response of K-RAS mutated non-small cell lung cancer
	Radiation risk, cancer induction and anti-cancer reactions: the tumor and its microenvironment
	Julian Hartmann (University of Lübeck) Hyperactivation of the TGF-beta signaling pathway caused by ionizing radiation increases the migration behavior of human lung carcinoma cells
	Monique Zwar (University Medical Centre Rostock) Comparative study of the effects of neutrons and photons on normal human breast cells
	Radiation responses of cells and tissues: from local events to systemic effects with emphasis on preclinical animal models of radiation therapy and response
	Christin Glowa (German Cancer Research Center, Heidelberg)
	Carbon ion radiotherapy decreases the impact of tumor heterogeneity on radiation response in experimental prostate tumors
	Günther Dollinger (Universität der Bundeswehr München) Reduced Side Effects by Proton Minibeam Radiotherapy- Study in a Mouse Ear Model
	Antje Dietrich (German Cancer Consortium (DKTK) and OncoRay, TU Dresden) Are established glioblastoma models suitable to mirror the radiobiology of patient tumors?
	Monika Bäumler (Universitätsklinikum Erlangen) Role of EGFR and STAT signaling on the expression of PD-L1 and EGFR on melanoma and glioblastoma cells after chemoradiation
	Markus Hecht (Universitätsklinikum Erlangen) PD-L1 is increased after neoadjuvant radiochemotherapy of rectal adenocarcinoma patients



Tuesday, September 27th 2016

8:55 Opening of Day 2							
	ntion ro						
Naula	Radiation responses of cells and tissues: from local events to systemic effects with emphasis on preclinical animal models of radiation therapy and response						
	Chai	rs: Katalin Lumniczky, Budapest, Hungary and Johann Matschke, Essen					
9:00	9:30	Keynote Presentation					
		Grit Herter-Sprie (Uniklinik Köln) Title tba					
0.00	0.45						
9:30	9:45	Benjamin Stegen (Ludwig-Maximilians-Universität München) Contrast-enhanced, CT-based, fractionated radiotherapy of orthotopic mouse glioblastoma: A proof-					
		of-concept study					
9:45	10:00	Ivo Grgic (University Hospital Zürich, Switzerland) Modulation of tumor hypoxia for hypofractionated radiotherapy					
10:00	10:15	Zoe Schmal (Saarland University, Homburg/Saar) Impact of repetitive low-dose irradiation on the neurogenesis in the adult and juvenile hippocampus					
10.15	10.20						
10:15	10:30	Jos Philipp (German Research Center for Environmental Health GmbH, Neuherberg) Ionizing radiation leads to senescence and inflammation in human coronary artery endothelial cell					
		line					
10:30	10:45	Lisa Deloch (Universitätsklinikum Erlangen)					
		The influence of LD-RT on inflammation and bone metabolism in the hTNF- α tg mouse model					
10:45	11:00	Lisa Hintz (Technische Universität Darmstadt)					
		Biodosimetry of radon-induced DNA double-strand breaks in mice					
11:00	11:15	Karl T. Butterworth (Queen's University Belfast, UK)					
		Modelling responses to spatially fractionated radiation fields using the small animal radiotherapy research platform (SARRP)					
11:15	12:00	Brunch Break					
12:00	13:30	Guided Poster Session (ALL Posters with an even abstract number) and Coffee					
Radiat	tion ris	k, cancer induction and anti-cancer reactions: the tumor and its microenvironment					
		hairs: Soile Tapio, Neuherberg and Ramon Lopez Perez, Heidelberg					
13:30	14:00	Keynote Presentation					
		Serge M. Candéias (CEA-Grenoble, France) Effects of low dose radiation on the immune system, <i>in vitro</i> and <i>in vivo</i>					
14:00	14:15	Luitpold Distel (Universitätsklinikum Erlangen) The Spatial Interactions of Regulatory- and Cytotoxic T cells has the Potential to Predict Functionally					
		Active Inflammatory Cells					
14:15	14:30	Roland Wunderlich (Helmholtz Center Munich, Neuherberg)					
		Immune Modulatory Properties of Head and Neck Cancer Cell Lines on the Transcriptional Profile of Different Innate Immune Cell Subtypes					
14:30	14:45	Kaga Gomarteli (University Medical Center Mannheim)					
		A little to a lot vs. a lot to a little after mediastinal AP/PA radiotherapy and VMAT in the tumor-prone					
		p53 ^{/+} rat model					
14:45 15:45	15:45 16:00	Coffee Break with Open Poster Session Nicole Goerig (Universitätsklinikum Erlangen)					
10.40	10.00	Frequent occurrence of therapeutically reversible CMV-associated encephalopathy during					
		radiotherapy of the brain					
16:00	16:30	Hot Topic Lecture Claudia Fournier (GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt)					
		Introduction of Osteoimmunlogy for Radiation Research					
16:30	18:00	GBS General Assembly (for members only)					
18:00	19:30	Break					
19:30		GBS Social Evening (Redoutensaal Erlangen, Theaterplatz 1, Entrance at 19:00)					
		Travel Grants, Bullet Poster Session Award, 20 th Anniversary of GBS, Honorary Member Award and Fun with the Band Acoustilicious					



Wednesday, September 28th 2016

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8:55		Opening of Day 3				
Biomarkers and strategies to modify radiation responses as well as imaging the effects of radiation exposure Chairs: Franz Rödel, Frankfurt am Main and Alexander Rapp, Darmstadt						
9:00	9:30	Keynote Presentation: Kirsten Lauber (Ludwig-Maximilians-Universität München) In situ tumor vaccination by radiotherapy: Chances and challenges				
9:30	9:45	Johann Matschke (University Hospital Essen) Targeted inhibition of glutamine-dependent glutathione metabolism overcomes death resistance induced by chronic cycling hypoxia				
9:45	10:00	Kristian Unger (Helmholtz Zentrum München, Neuherberg) A 4-miRNA signature predicts the therapeutic outcome of glioblastoma				
10:00	11:30	Guided Poster Session (ALL Posters with an odd abstract number) and "enhanced" Coffee				
11:30	11:45	Anne Vehlow (Technische Universität Dresden and Helmholtz-Zentrum Dresden - Rossendorf) Dual β 1 integrin and JNK inhibition decreases radiochemoresistance and invasion of Glioblastoma stem-like cells				
11:45	12:00	Katalin Lumniczky (National Research Directorate for Radiobiology and Radiohygiene, Budapest, Hungary) Extracellular vesicles as mediators of radiation induced bystander signals in vivo				
12:00	12:15	Maxim Shevtsov (Technische Universität München and Russian Academy of Sciences (RAS), St.Petersburg, Russia) Functionalized superparamagnetic iron oxide nanoparticles for theranostic MRI-radiosensitization				
12:15	13:00	Award Ceremony (II) Best Paper Award Best Poster Award				
13:00	13:15	Farewell and Welcome to GBS2017 and GBS2018				

13:15 End of the Conference and Packed Lunch