

Registration: Monday to Wednesday, 8:00-16:00
Sunday, 10:00-20:00
Deichmann Auditorium

13:30-14:30

Lunch for Scholars in Training

Special Primer for Scholars in Training
Deichmann Auditorium

Session 1: "Career Development"

Host and Chair: J. Hess

14:30-15:15

Bernd Pulverer
Heidelberg, Germany

"Transparent publishing, preprints and open science"

15:15-16:00

Julia Verse
Berlin, Germany

"Good Scientific Practice - Protecting Scientific Integrity"

16:00-16:30

Coffee Break

Session 2: "Applied Science" and Round Table Discussion

Chairs: K. Al-Refae and A. Kryzstofiak

16:30-17:15

Nicholas McGranahan
London, United Kingdom

"Tumor heterogeneity and therapy outcome"

17:15-18:00

**M.H. Barcellos-Hoff, M. Foiani, N. McGranahan, G. McKenna, B. Pulverer
J. Verse and E. Rogakou**

"Round Table Discussion on career paths in science"

Inaugural Session
Audimax

18:30-19:00

Opening Ceremony

Prof. Dr. Jan Buer

Dean, Medical Faculty, University of Duisburg-Essen

Prof. Lorenzo Manti

President, ERRS

Prof. Michael Hausmann

President, GBS

Prof. Till Engel

Music for intellectual stimulation

Beethoven Piano Sonata Nr. 1 in f-Minor op. 2/1

Prof. Dr. Verena Jendrossek

Institute of Cell Biology, University of Duisburg-Essen

Prof. George Iliakis

Inst. of Med. Rad. Biology, University of Duisburg-Essen

19:00-20:00

Keynote Lecture 1

Chair: G. Iliakis

Silvia Formenti

"Immune effects of radiation therapy"

New York, United States

20:00-22:00

Welcome Reception

Keynote Lecture 2, Deichmann Auditorium

Chair: V. Jendrossek
8:15-9:00 **Mary Helen Barcellos-Hoff** *"Looking for Achilles' heel: HPV, TGF- β , and DDR"*
 San Francisco, United States

Plenary Session 1, "Radiation Exposure and Immune Response"

Chairs: G. Niedermann/B. Frey
9:00-9:20 **Silvia Formenti** *"TREG1 regulates radiation immunogenicity: clinical implications"*
 New York, United States

9:20-9:40 **Udo Gaipl** *"Immune modulatory properties of radiotherapy - rationales for combination with immunotherapy"*
 Erlangen, Germany

9:40-10:00 **Gabriele Niedermann** *"Preclinical evaluation and imaging of immunoradiotherapy approaches"*
 Freiburg, Germany

10:00-10:20 **Conrad Rauber** *"Gut microbiota in radioimmunotherapy"*
 Villejuif, France

10:20-10:40 **Lisa Sevenich** *"Effects of ionizing radiation on brain metastasis-associated inflammation"*
 Frankfurt am Main, Germany

Coffee Break

	S01, "Immune Response"	S02, "DNA Damage Response 1"	S03, "Tumor Response"
	Deichmann Auditorium	Audimax	IG1, Hörsaal 1
11:00-11:15	Chairs: G. Safrany/F. Wirsdörfer Ruth Muschel Oxford, United Kingdom <i>"FGF2 is a switch controlling the tumor response to radiation through macrophage polarization"</i>	Chairs: C. Sorensen/M. Wolf Beate Volkmer Buxtehude, Germany <i>"Epigenetic alterations in skin cancer tissue and UV-exposed skin"</i>	Chairs: S. Haghdoost/A. Vehlow Peter Huber Heidelberg, Germany <i>"CTGF (connective tissue growth factor) in radiation tumor and normal tissue response"</i>
11:15-11:30	Benjamin Frey Erlangen, Germany <i>"Pre-clinical and clinical hints for immune modulation by low doses of ionizing radiation"</i>	Stephanie Hehlhans Frankfurt am Main, Germany <i>"Nek1 depletion modulates apoptosis, DNA repair and radiation survival of 3D-cultured colorectal and cervix ..."</i>	Marc Vooijs Maastricht, Netherlands <i>"Modeling tumour and normal tissue effects of combination treatments"</i>
11:30-11:45	Amir Abdollahi Heidelberg, Germany <i>"Radiation induced lung fibrosis-a dynamic interplay between immune response, angiogenesis ..."</i>	Aashish Soni Essen, Germany <i>"Increased DSB end resection causes enhanced formation of chromosomal translocations through Parp-1 ..."</i>	Heidi Lyng Oslo, Norway <i>"Imaging hypoxia in prostate cancer"</i>
11:45-12:00	Ludwig Dubois Maastricht, Netherlands <i>"Radiotherapy and immunocytokines: a perfect match for abscopal effects with long-lasting memory?"</i>	Klaudia Al-Refae* Essen, Germany <i>"Impact of Akt1 phospho-mutants on the cellular response to ionizing radiation"</i>	Simone Moertl Munich, Germany <i>"Exosomes from irradiated squamous head and neck cancer cells with altered protein cargo boost ..."</i>
12:00-12:15	Roman Hennel Munich, Germany <i>"Immunostimulatory effects induced by radiotherapy of breast cancer cells"</i>	Aadhya Tiwari* Tübingen, Germany <i>"Y-box binding protein-1 stimulates repair of ionizing radiation-induced DNA double strand breaks ..."</i>	Sofia Ferreira* Orsay Ville, France <i>"Dbait and radiation treatments in pediatric brain tumors"</i>
12:15-12:30	Veronica Olivo Pimentel* Maastricht, Netherlands <i>"Radiotherapy causes long-lasting antitumor immunological memory when combined with immunotherapy"</i>	Jagdish Paithankar* Mangalore, India <i>"Variations in radiation tolerance in life stages of D. melanogaster provide clues to radiation tolerance ..."</i>	Emmy Rogakou Athens, Greece <i>"20 years after the discovery of the γH2AX biomarker"</i>

12:30-14:30 Poster Session 1, Audimax (Lunch will be provided)

*Denotes young investigators

MONDAY, 18.09.2017

	S04, "DNA Repair in Chromatin Context"	S05, "Novel Radiosensitizers"	S06, "Radiation Protection"
	Deichmann Auditorium	Audimax	IG1, Hörsaal 1
14:30-14:45	<p><i>Chairs: A. Rapp/V. Mladenova</i></p> <p>Timothy Humphrey Oxford, United Kingdom <i>"Histone H3K36 trimethylation, genome stability and cancer"</i></p>	<p><i>Chairs: Y. Saintigny/S. Ferreira</i></p> <p>Gillies McKenna Oxford, United Kingdom <i>"High-throughput screens for drugs to modify hypoxia"</i></p>	<p><i>Chairs: C. Streffer/N. Castelletti</i></p> <p>Christian Streffer Essen, Germany <i>"LNT-model for radiological protection: reasonable use and misuse"</i></p>
14:45-15:00	<p>Claudia Rube Homburg, Germany <i>"Hair follicle stem cell fate is dependent on chromatin remodeling capacity following low-dose radiation"</i></p>	<p>Martin Pruschy Zurich, Switzerland <i>"Targeting ADAM17 for radiosensitization"</i></p>	<p>Wolfgang-Ulrich Müller Essen, Germany <i>"Attributing health effects to ionizing radiation exposure and inferring risks"</i></p>
15:00-15:15	<p>Burkhard Jakob Darmstadt, Germany <i>"Dynamics of DNA repair proteins in response to radiation induced DNA damage of different complexity"</i></p>	<p>Peter Sminia Amsterdam, Netherlands <i>"The MAPK targeted agent MEK162 acts as radiosensitizer in glioblastoma therapy"</i></p>	<p>Ulrike Kulka Oberschleißheim, Germany <i>"Research for radiation protection"</i></p>
15:15-15:30	<p>Alexander Rapp Darmstadt, Germany <i>"Identification of the elementary structural chromatin units of the DNA damage response"</i></p>	<p>Simon Magin Essen, Germany <i>"ATR dependent reactivation of suppressed alt-EJ in G0"</i></p>	<p>Herbert Braselmann Neuherberg, Germany <i>"A 9-feature genomic copy number signature is associated with radiation exposure in post-Chernobyl breast ..."</i></p>
15:30-15:45	<p>Lovisa Lundholm Stockholm, Sweden <i>"The role of chromatin in response to alpha and gamma radiation in breast cancer cells"</i></p>	<p>Mike Atkinson Neuherberg, Germany <i>"Do non-coding RNAs play a role in the response to radiation?"</i></p>	<p>Niels Belmans* Mol, Belgium <i>"Age-related biological effects of dental cone-beam CT exposure"</i></p>
15:45-16:00	<p>Nataša Anastasov Neuherberg, Germany <i>"Non-coding RNAs as regulators of cellular epigenome and response to radiation"</i></p>	<p>Bodo Laube Darmstadt, Germany <i>"Impact of glutamate receptor mediated signaling on the induction and repair of DNA DSBs ..."</i></p>	<p>Christine Hellweg Cologne, Germany <i>"Radiation protection for human space flights"</i></p>
16:00-16:30	Coffee Break		
GBS - Function			
16:30-17:10	"Best Paper of the Year/Dieter Frankenberg Award Lecture", Deichmann Auditorium		
17:15-18:30	"GBS Mitgliederversammlung", Deichmann Auditorium		
18:30-20:00	Get Together with Beer and Snacks		

43rd Annual Meeting of ERRS and 20th Annual Meeting of GBS, Essen, Germany, 2017

*Denotes young investigators

Keynote Lecture 3, Deichmann Auditorium

Chair: M. Löbrich
8:15-9:00 Simon Boulton *"Mechanics of homologous recombination and its exploitation in cancer therapy"*
 London, United Kingdom

Plenary Session 2, "DNA Damage Response and DNA Repair"

Chairs: D. van Gent/ E. Mladenov

9:00-9:20 Markus Löbrich *"ATRX promotes DNA repair synthesis and cross-over formation during homologous recombination"*
 Darmstadt, Germany

9:20-9:40 Haico van Attikum *"Regulation and dynamics of DNA repair in a chromatin context"*
 Leiden, Netherlands

9:40-10:00 George Iliakis *"Logic and necessities in the repair of DNA double strand breaks in higher eukaryotes"*
 Essen, Germany

10:00-10:20 Dik van Gent *"Modulation of DNA repair enhances the ionizing radiation effect in anti-tumor treatment"*
 Rotterdam, Netherlands

10:20-10:40 Ester Hammond *"Understanding and exploiting the hypoxia-induced DNA damage response"*
 Oxford, United Kingdom

10:40-11:00 Coffee Break

	S07, "DNA Damage Response 2"	S08, "Particle Radiation Modalities 1"	S09, "Intercellular Comm./Bystander Effects"
	Deichmann Auditorium	Audimax	IG1, Hörsaal 1
11:00-11:15	Chairs: B. Volkmer/S. Magin Carsten Herskind Mannheim, Germany <i>"A possible role of cell-cycle checkpoints in radioresistance and the shape of cell survival ..."</i>	Chairs: M. Moreels/P. Casolaro Beate Timmermann Essen, Germany <i>"The pediatric program at the West German Proton Therapy Centre Essen (WPE): aiming to reduce late ..."</i>	Chairs: F. Lyng/L. Dubois Carmel Mothersill Hamilton, Canada <i>"Harnessing radiation induced bystander signalling mechanisms for radiotherapy"</i>
11:15-11:30	Wael Mansour Hamburg, Germany <i>"Loss of PTEN-assisted G2/M checkpoint impedes homologous recombination repair ..."</i>	Thomas Schmid Neuherberg, Germany <i>"Proton minibeam radiation therapy is a novel approach to minimize normal tissue damage"</i>	Katalin Lumniczky Budapest, Hungary <i>"Radiation-induced bystander effects in the haematopoietic system mediated by extracellular vesicles"</i>
11:30-11:45	Emil Mladenov Essen, Germany <i>"CRISPR/Cas9 based model system to investigate the repair of DSB clusters with increased complexity"</i>	Sara Timm* Homburg, Germany <i>"Clustering of DSB following high-LET irradiation perturbs DNA repair and is associated with long-lasting ..."</i>	Géza Sáfrány Budapest, Hungary <i>"Intracranial or local thorax irradiation-induced non-targeted effects in bone-marrow-derived ..."</i>
11:45-12:00	Michael Ensminger* Darmstadt, Germany <i>"Nek1 coordinates the repair of one-ended DSBs with cell-cycle progression"</i>	Katrien Konings* Mol, Belgium <i>"How do different radiation qualities affect the Hedgehog signaling pathway?"</i>	Colin Seymour Hamilton, Canada <i>"Low doses and non-targeted effects in environmental radiation protection; where are we now and where ..."</i>
12:00-12:15	Stefanie Mosel* Essen, Germany <i>"A novel role for the anti-apoptotic protein Survivin in DNA repair and replication"</i>	Ralf Kriehuber Jülich, Germany <i>"Geno- and cytotoxicity of DNA-associated Auger electron emitters"</i>	An Aerts Mol, Belgium <i>"Effect of ionizing radiation on intercellular communication in vascular endothelial cells"</i>
12:15-12:30	Ramon Lopez Perez* Heidelberg, Germany <i>"Towards a better understanding of the ultrastructural organization of DNA double-strand break repair foci"</i>	Elke Beyreuther Dresden, Germany <i>"Analysing methods of animal irradiation experiments with deviations from prescribed dose"</i>	Werner Rühm Neuherberg, Germany <i>"Relevance of low dose and low dose rate research for radiation protection"</i>

12:30-14:30 Poster Session 2, Audimax (Lunch will be provided)

*Denotes young investigators

TUESDAY, 19.09.2017

	S10, "DNA Damage Response 3"	S11, "Radiation Therapy 1"	S12, "Predictive Assays/Biomarkers 1"
	Deichmann Auditorium	Audimax	IG1, Hörsaal 1
14:30-14:45	<p><i>Chairs: M. Toulany/R. L. Perez</i></p> <p>Kerstin Borgmann Hamburg, Germany <i>"CHK1-mediated replication fork stabilization confers radioresistance in homologous recombination ..."</i></p>	<p><i>Chairs: H. Lyng/A. Rühle</i></p> <p>Marie Dutreix Orsay Ville, France <i>"DNA repair inhibitors and radiotherapy"</i></p>	<p><i>Chairs: K. Franken/C. von Neubeck</i></p> <p>George Don Jones Leicester, United Kingdom <i>"Comet assay measures of cancer treatment cell sensitivity"</i></p>
14:45-15:00	<p>Claus Sørensen Copenhagen, Denmark <i>"Novel DNA nuclease function governs cell fate decisions after ionising radiation"</i></p>	<p>Alexander Schramm Essen, Germany <i>"Modulation of the DNA damage response by neurotrophin receptor signalling"</i></p>	<p>Nicolaas Franken Amsterdam, Netherlands <i>"Reduced activity of DSB Repair Genes in prostate cancer patients with late normal tissue radiation-toxicity"</i></p>
15:00-15:15	<p>Aurelie Vaurijoux* Fontenay-aux-Roses, France <i>"Persistent ionizing radiation-induced foci in human primary cells: transmission through cell division"</i></p>	<p>Heike Anders* Munich, Germany <i>"HSP90 inhibition: sensitization of aggressive soft tissue sarcomas to radiotherapy by enhancing the ..."</i></p>	<p>Pavel Lobachevsky Melbourne, Australia <i>"γ-H2AX assay as a basis for prediction of individual radiosensitivity"</i></p>
15:15-15:30	<p>Fanghua Li Essen, Germany <i>"Suppression of CtIP-controlled DNA end-resection impairs alt-EJ in quiescent cells"</i></p>	<p>Justine Rudner Essen, Germany <i>"USP9x-regulated Mcl-1 stability is important for prostate cancer survival in response to ionizing radiation"</i></p>	<p>Dietrich Walsh* Neubiberg, Germany <i>"Real time imaging of ROS propagation after targeted mitochondrial irradiation"</i></p>
15:30-15:45	<p>Michael Hausmann Heidelberg, Germany <i>"Nano-probes and localization microscopy: a pointilist view on mechanisms of radiation ..."</i></p>	<p>Hua Jing* Heidelberg, Germany <i>"Combination of hypofractionated radiotherapy and IL-2/anti-IL-2 complexes and its theranostic ..."</i></p>	<p>Ulrike Schötz Munich, Germany <i>"Biomarkers and targets for personalization of radiotherapy of HNSCC: CD44v6"</i></p>
15:45-16:00	<p>Moritz Frister* Heidelberg, Germany <i>"Ultrastructural studies on radiation-induced DNA double strand break repair foci with super-resolution ..."</i></p>	<p>Erika Zernikel* Essen, Germany <i>"A synthetic lethality-based strategy for individual sensitization of lung cancer cell lines with ..."</i></p>	<p>Michael Orth Munich, Germany <i>"Mechanism and biomarkers predicting the outcome of taxane-based, concurrent ..."</i></p>



16:30-18:00 (optional guided tour)

Art Museum Folkwang: Collections of painting and sculpture from the 19th century, Classical Modernism and the post-1945 period



18:30-23:00

Conference Dinner, Philharmonie Essen

Prof. Dr. Ulrich Radtke, President, University of Duisburg-Essen

Prof. Till Engel:

W.A. Mozart - Piano Sonata No 11 in A - Major, K.331

F. Liszt - Hungarian Rhapsody No. 13

Awards

Jörg Hegemann, Boogie Woogie and lots of dance and fun

Keynote Lecture 4, Deichmann Auditorium

8:15-9:00	<i>Chair: T. Halazonetis</i>	
	Marco Foiani Milan, Italy	<i>"An integrated ATR, ATM and mTOR-mechanical network controlling nuclear plasticity and cell migration"</i>

Plenary Session 3, "Mechanisms of Radiation Effects"

9:00-9:20	<i>Chairs: M. Foiani/Z. Nikitaki</i>	
	Thanos Halazonetis Geneva, Switzerland	<i>"A vertebrate DNA replication completion checkpoint shows similarities to the spindle checkpoint"</i>
9:20-9:40	Christian Reinhardt Cologne, Germany	<i>"ATM restoration in vivo induces lymphoma regression through cell autonomous and non-cell autonomous mechanisms"</i>
9:40-10:00	Björn Schumacher Cologne, Germany	<i>"Genome stability in aging and disease"</i>
10:00-10:20	George Garinis Heraklion, Greece	<i>"Nucleotide excision repair: from persistent DNA damage to chronic inflammation"</i>
10:20-10:40	Petra Boukamp Heidelberg, Germany	<i>"A role for telomeres in UV-induced skin cancer"</i>

10:40-11:00 Coffee Break

	S13, "Particle Radiation Modalities 2"	S14, "Radiation Toxicity and Carcinogenesis"	S15, "Normal Tissue Response 1"
	Deichmann Auditorium	Audimax	IG1, Hörsaal 1
11:00-11:15	<i>Chairs: L. Manti/S. Timm</i> Lorenzo Manti Naples, Italy <i>"Enhancement of clinical proton biological effectiveness by means of proton-boron fusion reaction"</i>	<i>Chairs: M. Atkinson/J. Hess</i> Christophe Badie Didcot, United Kingdom <i>"Tracking pre-leukemic live cells in murine radiation-induced leukaemia"</i>	<i>Chairs: S. Moertl/L. Barazzuol</i> Florian Wirsdörfer Essen, Germany <i>"Loss of CD73 prevents macrophage accumulation and phenotype changes in radiation-induced lung fibrosis"</i>
11:15-11:30	Andrzej Wojcik Stockholm, Sweden <i>"X-rays and α-particles interact in inducing DNA damage in U2OS cells"</i>	Neeraj Kumari* Delhi, India <i>"IL-6 protects cells from radiation induced cell death by activating anti-oxidant defence and STAT-3 ... "</i>	Noëlle Mathieu Fontenay-aux-Roses, France <i>"Bowel radiation injury: complexity of the pathophysiology and promises of cell and tissue engineering"</i>
11:30-11:45	Alexandros Georgakilas Athens, Greece <i>"Uniting ionizing radiation, DNA damage and immune response through an integrative ... "</i>	Mieke Verslegers* Mol, Belgium <i>"Investigating congenital eye defects in prenatally-irradiated mice and the efficacy of folic acid as a ... "</i>	Shwetajani Nimker* Delhi, India <i>"Dose-dependent morphological and biochemical alterations in the peripheral blood erythrocytes of ... "</i>
11:45-12:00	Georgia Terzoudi Athens, Greece <i>"Biological effectiveness of protons in comparison to α-particles and accelerated C-ions as measured ... "</i>	André Claude M. Mfossa* Mol, Belgium <i>"Mechanistic analysis of radiation-induced microcephaly in mice"</i>	Arjan van Dijk Bilthoven, Netherlands <i>"A mechanistic model for radiation induced atherosclerosis"</i>
12:00-12:15	Charlot Vandevoorde* Cape Town, South Africa <i>"Assessment of out-of-field DNA damage and the impact of neutron RBE on secondary cancer risk in ... "</i>	Emma Coninx* Mol, Belgium <i>"The hippocampus: a target for premature aging after early-life irradiation"</i>	Sylwia Kabacik* Didcot, United Kingdom <i>"Ionising radiation increases permeability of endothelium through ADAM 10-mediated cleavage of VE-cadherin"</i>
12:15-12:30	Marco Durante Trento, Italy <i>"Ground-based research for space radiation protection"</i>	Paul Schofield Cambridge, United Kingdom <i>"The STORE database; a platform for sharing experimental and epidemiological data and resources in ... "</i>	Lorena Giuranno* Maastricht, Netherlands <i>"Improving lung cancer outcome by reducing normal lung toxicity"</i>

12:30-14:30 Poster Session 3, Audimax (Lunch will be provided)

*Denotes young investigators

WEDNESDAY, 20.09.2017

	S16, "Low Dose Radiation Effects"	S17, "Predictive Assays/Biomarkers 2"	S18, "Radiation Therapy/Stem Cells"
	Deichmann Auditorium	Audimax	IG1, Hörsaal 1
14:30-14:45	<i>Chairs: M. Hausmann/A. Soni</i> Horst Zitzelsberger Munich, Germany <i>"Radiation markers in breast carcinogenesis"</i>	<i>Chairs: C. Rube/J. Matschke</i> Gabriel Pantelias Athens, Greece <i>"The use of PCC for elucidating the mechanism underlying chromothripsis and for early triage biodosimetry ... "</i>	<i>Chairs: F. Rödel/R. Hennel</i> Lisa Wiesmüller Ulm, Germany <i>"The MLL breakpoint cluster region: a target for chemo- and radiotherapy"</i>
14:45-15:00	Claudia Fournier Darmstadt, Germany <i>"Immune-related, low dose effects in adipose and other joint cells and tissue"</i>	Malte Kriegs Hamburg, Germany <i>"Kinomic profiling in radiation oncology: strategies towards personalized molecular targeting"</i>	Daniel Cullen* Dublin, Ireland <i>"Identification of prostate cancer patients at risk of late radiotoxicity following radiation therapy ... "</i>
15:00-15:15	Roel Quintens Mol, Belgium <i>"Prenatal irradiation as a potential inducer of premature differentiation during corticogenesis"</i>	Sarah Meneceur Dresden, Germany <i>"Are residual γ-H2AX foci predictive for radiosensitivity? Evaluation of in vivo irradiated tumors ... "</i>	Daniel Lopez* Bogota, Colombia <i>"Effect of NIS expression in response to treatment with external beam radiotherapy in a colon carcinoma ... "</i>
15:15-15:30	Maria Gomolka Oberschleißheim, Germany <i>"Gene expression changes in former uranium workers of the sag/sdag wismut"</i>	Cläre von Neubeck Dresden, Germany <i>"Using γ-H2AX Foci as potential predictors for individual radiosensitivity"</i>	Mozhgan Dehghan Harati* Tübingen, Germany <i>"Akt isoforms differently regulate ALDH activity and the expression of stem cell markers in cancer cells"</i>
15:30-15:45	Claudia Dalke Neuherberg, Germany <i>"A lifetime study in mice – assessing several biological endpoints after exposure to low doses of IR"</i>	Judith Reindl* Neubiberg, Germany <i>"Using DNA DSB protein clusters as a potent marker for biological microdosimetry on high-LET particle ... "</i>	Sylvia Ritter* Darmstadt, Germany <i>"Ionizing radiation alters the differentiation potential of human embryonic stem cells"</i>
15:45-16:00	Daniela Hladik* Neuherberg, Germany <i>"Low-dose radiation exposure leads to irreversible changes in the proteome of the murine hippocampus"</i>	Kristian Unger Neuherberg, Germany <i>"Prediction models in radiation oncology"</i>	Yannick Saintigny Caen, France <i>"Multimodal treatments of radio-resistant glioblastoma stem cells: emerging effective tryptic of ... "</i>
16:00-16:30	Coffee Break		
ERRS - Function			
16:30-17:30	"Bacq and Alexander Award Lecture", Deichmann Auditorium		
	Catharine West Manchester, United Kingdom	<i>"Radiobiology biomarkers and how to minimise fake news"</i>	
17:30-18:30	"ERRS General Assembly, Deichmann Auditorium"		
18:30-20:00	Get Together with Beer and Snacks		

43rd Annual Meeting of ERRS and 20th Annual Meeting of GBS, Essen, Germany, 2017

*Denotes young investigators

Keynote Lecture 5, Deichmann Auditorium

Chair: R. Coppes

8:15-9:00

Thomas Helleday
Stockholm, Sweden

"Novel regulators of IR-induced DNA repair and dNTP generation at DNA damage sites, and implications for cancer treatments"

Plenary Session 4, "Clinical Translation of Radiation Biology"

Chairs: M. Benderitter/F. Meyer

9:00-9:20

Penny Jeggo
Sussex, United Kingdom

"Double-strand breaks repair disorders "

9:20-9:40

Wolfgang Dörr
Vienna, Austria

"Stem cells for amelioration of radiation-induced oral mucositis: preclinical studies"

9:40-10:00

Verena Jendrossek
Essen, Germany

"Adaptation to the adverse tumor environment - towards novel combined treatment strategies"

10:00-10:20

Franz Rödel
Frankfurt am Main, Germany

"PD-1/PD-L1, CD8 and FOXP3 expression and human papilloma virus load in patients with anal squamous cell carcinoma treated ..."

10:20-10:40

Rob Coppes
Groningen, Netherlands

"Use of organoid cultures in the study of radiation response and regeneration"

10:40-11:00

Coffee Break

S19, "Normal Tissue/Stem Cells Response"

Deichmann Auditorium

Chairs: G. Terzoudi/D. Klein

11:00-11:15

Diana Klein
Essen, Germany

"Radioprotection of normal lung tissue by mesenchymal stem cell therapy"

11:15-11:30

Lara Barazzuol
Groningen, Netherlands

"A coordinated DNA damage response activates adult quiescent neural stem cells in a ... "

11:30-11:45

Insa Sigrid Schröder
Darmstadt, Germany

"Ionizing radiation negatively affects cardiac differentiation of pluripotent stem cells"

11:45-12:00

Felix Meyer*
Hamburg, Germany

"Interplay of DNA repair and stem-like phenotype determines the sensitizing effect of CHK1, RAD51 and PARP1 ... "

12:00-12:15

Danuta Galetzka
Mainz, Germany

"Molecular karyotyping and DNA methylation pattern analysis in primary fibroblasts of patients ... "

12:15-12:30

Harry Scherthan
Munich, Germany

"DNA damage in leukocytes after internal exposure to beta and alpha emitters"

S20, "Low Dose Radiation Effects/Countermeasures"

Audimax

Chairs: C. Rios/N. Daems

Carmen Rios
Rockville, United States

"Expediting the drug development process by repurposing licensed products – a NIAID/RNCP viewpoint"

Serge Candéias
Grenoble, France

"Low dose radiation accelerates ageing of the T cell receptor repertoire in mice"

Michael Abend
Munich, Germany

"Pre-exposure gene expression in baboons with and without pancytopenia after radiation exposure"

Johanna Mirsch*
Darmstadt, Germany

"Efficient DSB repair after low irradiation doses requires a critical cellular radical level"

Lisa Deloch*
Erlangen, Germany

"Low-dose irradiation has an impact on bone metabolism and reduces fibroblast-like synoviocytes ... "

Vijay Singh
Bethesda, United States

"Gamma-tocotrienol as a promising radiation countermeasure for acute radiation syndrome: efficacy ... "

S21, "Modelling of DNA Damage Responses"

IG1, Hörsaal 1

Chairs: M. Scholz/K. Sasaki

Michael Scholz
Darmstadt, Germany

"Modelling the impact of cell cycle dependent repair mechanisms and repair deficiencies based on ... "

Werner Friedland
Neuherberg, Germany

"Modelling of DNA damage by light ions from radiotherapy-relevant energies down to stopping"

Andrea Ottolenghi
Pavia, Italy

"From track structure to systems biology: How many roads must a man walk down ..."

Mario Pietro Carante
Pavia, Italy

"Full predictions of cell death and chromosome damage along hadron-therapy dose profiles by the ... "

Kohei Sasaki*
Sapporo, Japan

"A simulation study for both of the targeted and untargeted effect on the uniformly irradiated cells"

Thomas Friedrich
Darmstadt, Germany

"Which spatial dimensions of radiation damage interaction are relevant for the high effectiveness ... "

12:30-13:30

Closing Ceremony and Farewell