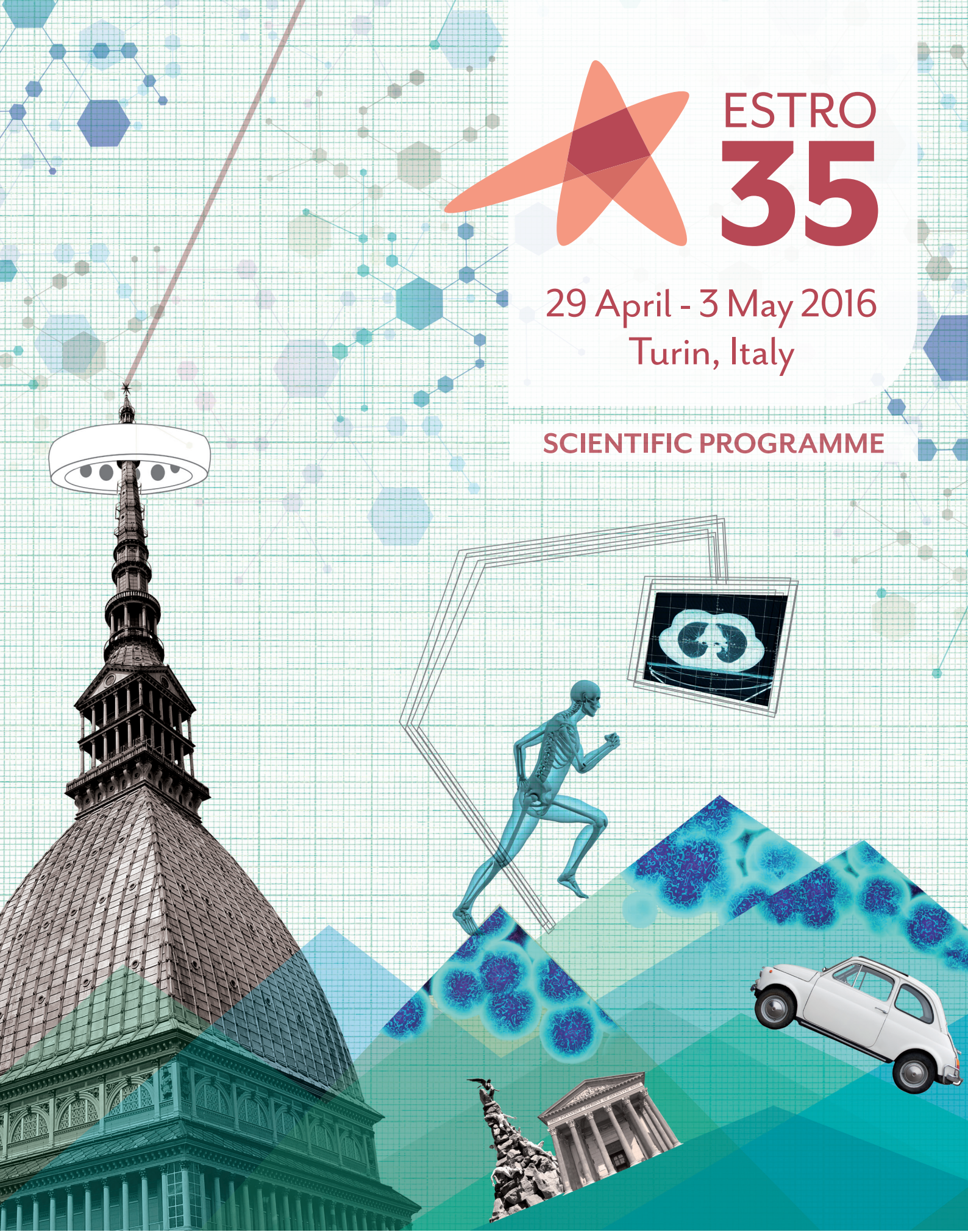


ESTRO
35

29 April - 3 May 2016
Turin, Italy

SCIENTIFIC PROGRAMME



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 **ESTRO**
European Society for
RADIOTHERAPY
& ONCOLOGY

08:00 – 08:40	TEACHING LECTURE Technology assessment	TEACHING LECTURE CRISPR/CAS technology: from cells to mice to stem cell therapy	TEACHING LECTURE Partial breast irradiation: who, when and how?	TEACHING LECTURE TBC	TEACHING LECTURE Role of brachytherapy in the management of paediatric tumours	TEACHING LECTURE Challenges in MR guidance	TEACHING LECTURE Patient specific quality assurance in proton therapy	TEACHING LECTURE Side effects – actual clinical benefit in particular considerations, from photons to protons		
08:45 – 10:00	SYMPOSIUM Selection of patients for proton therapy Selection of patients for proton therapy: a clinician's view - Selection of patients for proton therapy: a physicist's view - Future selection practice for proton therapy: selection of patients based on treatment planning comparison and NTCP-modelling	SYMPOSIUM Mitigating normal tissue toxicity ACE inhibitors and lung / cardiac / vascular damage - Mitigation of skin fibrosis - Mitigation of lung fibrosis by anti-macrophage strategy	SYMPOSIUM Regional nodal irradiation for breast cancer The axilla - less surgery, more radiotherapy? - The internal mammary chain- should we treat it in every node-positive patient? - Technical approaches to regional LN irradiation	SYMPOSIUM Assessment and management of rectal morbidity Morbidity scoring - Measuring anorectal toxicity and function - Rectal spacers to minimise morbidity in radiotherapy for prostate cancer	SYMPOSIUM Towards user oriented QA procedures for treatment verification How to ensure the quality in brachytherapy treatment planning systems? - Imaging - Dose verification	SYMPOSIUM Robust and accurate functional MRI for radiotherapy Needs and technical requirements for functional MRI in radiotherapy - Variation in DCE-MRI methodology and its implications for radiotherapy - Importance of b-value selection and geometrical accuracy in DW-MRI for radiotherapy	SYMPOSIUM Joint ESTRO-IAEA efforts on dosimetry, QA and audit for advanced treatment techniques New code of practice for small- and non standard fields - Which dosimetric uncertainties in small fields are clinically acceptable for IMRT/VMAT? - IAEA external audits for advanced radiotherapy - lessons learnt and their relevance for industrialised countries	SYMPOSIUM Strategies for treatment planning Comparisons of dose planning for photon and proton - When to re-plan - how to use modern techniques - a practical perspective - Auto planning: consequences for the department	POSTER VIEWING	
10:00 – 10:30	COFFEE BREAK									
10:30 – 11:30	SYMPOSIUM Protons or heavy ions? Radiobiological benefits of protons and heavy ions - advantages and disadvantages - Physical advantages of particles: protons vs. heavy ions, what is certain what is not? - How strong is the current clinical evidence for protons and heavy ions?	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	POSTER VIEWING
11:45 – 12:20	PRESIDENTIAL SYMPOSIUM									
12:20 – 13:00	EMMANUEL VAN DER SCHUEREN AWARD LECTURE									
13:00 – 14:30	LUNCH AND INDUSTRY SYMPOSIA									
14:30 – 15:45	SYMPOSIUM Hot topics in SABR: time for randomised clinical trials? Do we need randomised clinical data to justify the use of SABR for primary and oligometastatic cancer? - Preclinical and clinical data on the radiobiological mechanism for the efficacy of SABR - Technical developments in high precision radiotherapy: a new era for clinical SABR trials?	SYMPOSIUM Tumour targeting - considering normal tissue biology Tumour - normal tissue models for individualised tumour screening - The role of ATM and p53 in normal tissue radiation response - DNA repair in stem cells - A radiation system biology view of radiation sensitivity of normal and tumour cells	DEBATE This house believes that treatment intensification should be pursued in locally advanced NSCLC	SYMPOSIUM Active surveillance for low risk prostate cancer: to treat or not to treat? Does (very) low risk prostate cancer really exist? - The role of imaging in active surveillance - Active surveillance: challenges and perspectives. The clinician point of view	SYMPOSIUM Achieving excellence in image guided brachytherapy Physician training in contouring - Physicist training in 3D dose planning - New avenues for training with e-learning	SYMPOSIUM Imaging markers for response prediction and assessment Imaging markers for response prediction: the clinical need - Response prediction in rectal cancer using PET radiomics - Imaging of normal liver tissue for <i>in vivo</i> verification and function assessment	DEBATE No need for in-room MR-guidance for the main tumour sites!	SYMPOSIUM Additional tools for contouring Functional and molecular imaging techniques and personalised radiotherapy - General recontouring with deformal registration - Automation of contouring	POSTER VIEWING	MULTIDISCIPLINARY TUMOUR BOARD Breast
15:45 – 16:15	COFFEE BREAK									
16:15 – 17:15	SYMPOSIUM MR-PET What MR-PET can offer for radiation oncology - How to use MR-PET for radiation oncology - Making hybrid MR-PET ready for radiation oncology	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	POSTER VIEWING
17:30 – 18:15	HONORARY MEMBERS LECTURES									
18:15 – 19:15	POSTER RECEPTION - POSTER AWARDS									

08:00 – 08:40	TEACHING LECTURE Pitfalls and risks of standardisation in high-tech radiotherapy	TEACHING LECTURE DNA repair and response for beginners	TEACHING LECTURE Anal cancer: current guidelines and remaining questions	TEACHING LECTURE Radiotherapy and immunotherapy on the biological basis	TEACHING LECTURE Underestimated importance of intraluminal brachytherapy: bronchus, oesophageal, anorectal and hepatobiliary duct cancer	TEACHING LECTURE Big data in radiotherapy: technology, challenges and opportunities	TEACHING LECTURE The role of dosimetry audit in safety, quality and best practice for external beam and brachytherapy	TEACHING LECTURE General introduction to head and neck radiotherapy	TEACHING LECTURE e-Learning for Professionals in Radiation Oncology: what, why and how?			
08:45 – 10:00	SYMPOSIUM Quality beyond accuracy: are we failing to see the forest for the trees? Did the higher accuracy in treatment delivery translate into noticeable clinical improvements? The patient: an active partner in quality and safety process in radiotherapy Beyond accuracy: how can medical physics help improve treatment quality?	SYMPOSIUM Targeting DNA repair / DDR pre-clinical evidence Tumour-specific radiosensitisation by ATR inhibitors Preclinical evaluations of RT- ATM & ATR inhibitor combinations Realising the full potential of DNA damage response inhibition in the treatment of cancer	SYMPOSIUM New approaches in rectal cancer How to delineate the CTV for rectal cancer? An international consensus The way forward in organ preservation strategies for rectal cancer Consequences of bowel cancer screening programmes	SYMPOSIUM Changing paradigm in the management of kidney cancer Partial nephrectomy: indication and results Any role for radiotherapy in the management of kidney cancer? New insights in the medical management of kidney cancer	SYMPOSIUM Modern techniques for old indications Robotic surgery and brachytherapy New techniques in brachytherapy for head and neck Image guided brachytherapy in vaginal cancer	SYMPOSIUM Quantitative imaging to individualise radiotherapy Tissue characterisation using quantitative radiomics Image-based radiobiological tumour control probability modelling Validation of imaging with histology: implications for dose prescriptions	PROFFERED PAPERS The role of dosimetry audit in safety, quality and best practice for external beam and brachytherapy	SYMPOSIUM Head and neck: reduction of margins and side effects Contouring of normal tissues in head and neck radiotherapy The ESTRO perspective - a guideline for positioning of head and neck patients Late effects in patients treated for head and neck cancer	SYMPOSIUM The future of Radiation Oncology publishing: views through the Green and Red telescopes Green Journal Red Journal How to do a good manuscript review	POSTER VIEWING		
10:00 – 10:30	COFFEE BREAK											
10:30 – 11:30	SYMPOSIUM QA in clinical trials: processes, impact and future perspectives How effective is current clinical trial QA? How does QA impact on clinical outcomes? What will we need for future QA in clinical trials?	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	POSTER VIEWING		
11:45 – 12:00	DONAL HOLLYWOOD AWARD											
12:00 – 12:45	HIGHLIGHTS OF PROFFERED PAPERS											
13:00 – 14:30	LUNCH AND INDUSTRY SYMPOSIA									YOUNG LUNCH SYMPOSIUM Planning ahead: how to finish your residency / PhD project with a job offer		
14:30 – 15:45	SYMPOSIUM Standardisation in clinical practice Guideline-based contouring and clinical audit systems Standardisation and treatment planning Potentials and challenges of automated contouring in treatment planning Implementation of new standards in your department: an RTT perspective	SYMPOSIUM DNA repair inhibition and RT: moving towards clinic Challenges in combining CT with PARP inhibitors Results of phase I trials combining PARP inhibition and radiotherapy in multiple sites Phase I results PARPi + RT + Cetuximab in HNSCC	SYMPOSIUM Radiotherapy of prostate cancer: technical challenges Extreme hypofractionation: indications and results Focal strategies: ready for prime time? Brachytherapy as a boost: the way to go?	DEBATE This house believes that SBRT should become the standard of care for T1 and small T2 NSCLC tumours	DEBATE Is brachytherapy the best for partial breast irradiation? Multicatheter brachytherapy is the best for PBI IORT is the best for PBI IMRT is the best for PBI Dosimetric pros and cons of available PBI techniques	SYMPOSIUM New challenges in modelling dose-volume effects Evaluating the impact of clinical uncertainties on NTCP models in brachytherapy Incorporation of imaging-based features into predictive models of toxicity Growing importance of data-mining methods to select dosimetric/clinical variables in integrated predictive models of toxicity	SYMPOSIUM Automated treatment plan generation in the clinical routine Automated treatment plan generation – the Zurich experience Automated treatment plan generation – the Milan experience Fully automated treatment plan generation using Erasmus-iCycle – the Rotterdam experience	SYMPOSIUM Elderly and radiation therapy Geriatric assessment is a requirement to effectively provide a quality radiotherapy service to the older person Enhancing continuity of care and symptom management with the use of palliative radiotherapy treatment summaries (PaRTS) Treatment choices in the elderly; focus on breast cancer	SYMPOSIUM A joint session of Young Radiation Oncologists National Societies & YROG What is the Young ESTRO Committee and what can it do for young radiation oncology professionals? The Young Radiation Oncology Group of EORTC The French Society of Young Radiation Oncologists AIRO (Italian Association Radiation Oncology) Young Group The British Institute of Radiology Round table with present Young National Societies	POSTER VIEWING	MULTIDISCIPLINARY TUMOUR BOARD Rectal cancer	
15:45 – 16:15	COFFEE BREAK											
16:15 – 17:15	SYMPOSIUM Health Economics in Radiation Oncology (HERO)	DEBATE	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	YOUNG RECEPTION Young reception and Report from the Young ESTRO Committee	POSTER VIEWING	ESTRO SCHOOL SYMPOSIUM
17:30 – 18:00	COMPANY AWARD LECTURES											
19:00	SUPER RUN											
	ESTRO SCHOOL RECEPTION											

08:00 – 08:40	TEACHING LECTURE How to bring QUANTEC into the 21st century?	TEACHING LECTURE Shared decision making	TEACHING LECTURE Genetic mouse models for cancer research	TEACHING LECTURE SBRT for oligometastatic disease	TEACHING LECTURE Advanced treatment strategies for head and neck cancer	TEACHING LECTURE Dose to water vs. dose to tissue: issues for treatment planning and dose measurement	TEACHING LECTURE Nanodosimetry: from radiation physics to radiation biology	TEACHING LECTURE Brachytherapy for the pelvic region: status and perspective for the future		
08:45 – 10:00	SYMPOSIUM Adaptive radiotherapy for coping with anatomical variations: hope or hype? Overview of clinical practice of ART for abdominal and pelvic tumours The challenges of ART from a physician's perspective The practical "cost" of adaptive radiotherapy (in personnel time, patient time, etc...)	TEACHING LECTURE Time is not on our side: cardiovascular toxicity after radiotherapy The risk of cardiovascular disease after breast cancer treatment: the clinician's point of view Predicting cardiac toxicity after breast irradiation: new quantitative data and new challenges Active surveillance for cardiovascular disease after Hodgkin's lymphoma	SYMPOSIUM Emerging biomarkers Circulating tumour cells as biomarkers in lung radiotherapy The fall and rise of yH2AX as predictive radiotherapy biomarkers Genomic breast cancer subtype classification for response prediction Genomic subtypes in prostate cancer and its influence in treatment response	SYMPOSIUM SBRT for oligometastatic disease Combining SBRT and immunotherapy: a promising approach? SBRT for metastatic disease: how far can and should we go? Abdominal-pelvic targets	SYMPOSIUM Head and neck: state-of-the-art and directions for future research Molecular targeting with radiotherapy Immunotherapy for HNSCC: an emerging paradigm? Proton therapy in HNSCC: better than IMRT?	SYMPOSIUM SBRT in lung - choices and their impact on related uncertainties Dosimetric aspects and robustness in optimisation of SBRT for small lung tumours Does the prescription isodose matter? To use or not to use the LQ model at "high" radiation doses	PROFFERED PAPERS	SYMPOSIUM Adaptive treatments in the pelvic region Brachytherapy pelvic and MRI-Linac combination Clinical implementation of ART for cervix Implementation of ART in rectum	POSTER VIEWING	
10:00 – 10:30	COFFEE BREAK									
10:30 – 11:30	SYMPOSIUM Modern ART based on functional / biological imaging Functional imaging for ART, biological bases and potential impact on clinical outcome Adaptive radiation therapy by the example of head and neck cancer: is there any role for a RTT? Dosimetric benefit of replanning: when does the new treatment plan make a difference? ARTFORCE project	SYMPOSIUM Secondary cancer after radiotherapy: from cancer registries to clinical implications Secondary cancer risks assessed from epidemiology studies Modelling of secondary cancer risks Clinical implications of secondary cancer risks in pediatric and adult patients	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	POSTER VIEWING
11:45 – 12:30	SELECTED RANDOMISED TRIALS									
12:30 – 13:00	KLAAS BREUR AWARD LECTURE									
13:00 – 14:30	LUNCH AND INDUSTRY SYMPOSIA									
14:30 – 16:00	JOINT SYMPOSIUM ESTRO-ASTRO In room adaptive imaging with a focus on MRI MRI Linac: physics perspective Adaptive planning, dose delivery and verification with MRI based brachytherapy Clinical experience with low-field MR guided teletherapy Linac-based MRI device	SYMPOSIUM Communication with patients Patient's perspective Healthcare professional's perspective RTT/Nurse's perspective Interaction between patients and professionals: a psycho-oncologist's view	SYMPOSIUM Imaging biology Imaging biology: what do we really see? Genetics and imaging: a pas-de-deux in response prediction Molecular imaging for radiotherapy optimisation	DEBATE This house believes that centralised large radiotherapy units will provide the best academia and the best treatment quality	JOINT SYMPOSIUM ESTRO-ILROG Modern radiotherapy in lymphoma Indications to radiotherapy for lymphoma in 2016: what is standard of care and what remains controversial? New concepts for lymphoma radiotherapy and the use of advanced technology Modern imaging and radiotherapy in lymphoma	SYMPOSIUM Functional / biological imaging and radiotherapy physicists: new requests/challenges and the need for better and more specific training	SYMPOSIUM Small animal irradiation Preclinical radiotherapy technology, dosimetry and treatment planning Radiation biology studies with a small animal irradiator: results from the research programme at Johns Hopkins University How do we select meaningful pre-clinical models for studies in radiation biology?	SYMPOSIUM Focus on the pelvic region Bladder filling, effects and information about the filling An evaluation of GoldAnchor intraprostatic fiducial marker stability during radiotherapy Validation of a prostate cancer decision aid tool for shared decision making	POSTER VIEWING	MULTIDISCIPLINARY TUMOUR BOARD Oligometastatic disease
16:00 – 16:30	COFFEE BREAK									
16:30 – 17:30	SYMPOSIUM Dose painting: those pending issues The promises of dose painting Biological rationale of dose painting: is it clear? Dose prescription and treatment delivery at the voxel scale: a fantasy?	SYMPOSIUM ACROP ACROP: General procedures, SOPs and current status Clinical guidelines, update and introduction of recent clinical guidelines Brachytherapy and physics guidelines, update and introduction of recent guidelines	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	POSTER VIEWING	
17:30 – 18:30	GENERAL ASSEMBLY									
20:00	SOCIAL EVENING									

08:30 – 09:10	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE
	The new 'Rs' in radiation biology	Texture analysis of medical images	Heavy ion therapy: physical, radiobiological and clinical aspects	Neuroendocrine tumours – personalised diagnosis and treatment using radiolabelled peptides	Radiotherapy for paediatric brain tumours	Role and validation of deformable image registration in clinical practice	VMAT QA: To do and not to do, those are the questions	Optimising workflow in a radiotherapy department
09:15 – 10:30	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM
	New concepts of tumour radioresistance Immune system and radiation response - The contribution of cancer stem cells to tumour radioresistance - Novel insights in radioresistance of head and neck cancer	Towards Personalised Radiation Oncology (PRO) New technologies for genomic tumour profiling - Gene expression profiles in tumours for PRO - GWAS SNPs and normal tissue toxicity for PRO - Integrative data analysis for PRO	The tumour in 3D: the role of tumour microenvironment Relevance of 3D cultures to address radiation response and novel RT combination strategies - The potential of normal tissue organoid cultures - The impact of a novel 3D cell culture model of glioblastoma on radiation and drug-radiation responses - Radiation promotes immunological recognition	WBRT for brain metastases - the end of an era? Whole brain radiotherapy - the end of an era in NSCLC only or, in all radio-resistant malignancies - Focal radiotherapy for multiple brain metastases - Role of systemic therapy in the treatment of brain metastases	Radiotherapy "autovaccination" with systemic immune modulators for modern immunotherapy Should the combined treatment be part of our field of knowledge? - Radiotherapy for immunotherapy: optimising the doses and fractionation - Radiotherapy vs. chemotherapy induced "autovaccination": results and toxicity	ART in particle therapy The need for adaptive approaches in proton therapy compared to photons - Cone beam CT as a tool for adaptive techniques in proton therapy - Adaptive techniques in proton therapy of the lung - <i>In vivo</i> range estimation and adaptive particle therapy	The future of QA lies in automation The need of automation in QA, state of art and future perspectives - Automated QA for radiotherapy treatment planning - Automated QA using log-files - Automation in patient specific QA using <i>in vivo</i> portal dosimetry	Management and optimisation of the daily workflow Optimising workflow using a workflow management system - Does lean management improve patient safety culture? - Development and leadership roles
10:30 – 11:00	COFFEE BREAK							
11:00 – 12:00	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	DEBATE	DEBATE
	Combining radiotherapy with molecular targeted agents: learning from successes and failures Lessons learned from clinical trials combining radiotherapy and EGFR antibodies - Challenges combining radiotherapy with immunotherapy - Combining radiotherapy with modulators of VEGF signaling: getting the right balance	Radiomics - the future of radiotherapy? Imaging-Genomics: identifying molecular phenotypes by integrating radiomics and genomics data - PET/CT heterogeneity quantification through texture analysis: potential role for prognostic and predictive models - The potential of radiomics for radiotherapy individualisation	Radiobiology of proton / carbon / heavy ions Gene expression alterations to carbon ion and X-irradiation - Normal tissue response in particle therapy - Preclinical proton therapy studies	New insights in treating vertebral metastases Recent progresses in interventional radiology - What are the limits of minimally invasive surgery? - How to optimise the curative potential of SBRT?	IMRT, the new standard in treatment of gynaecological, lung and breast cancers? Organ motion: is it an obstacle to the use of IMRT as a standard technique for gynaecological cancers? - IMRT for lung cancer: current status and future developments - IMRT in breast cancers: dream or reality?	Plan of the day (PotD): current status PotD brachytherapy - PotD external beam overview current practice - PotD ViewRay – MR image-guided plan of the day	We don't need better dose calculation, it's doing more bad than good	Are we precisely inaccurate in our adaption?
12:00 – 13:00	CLOSING DEBATE							
13:00	CLOSING REMARKS							