

3rd Belgian Hadrontherapy Consortium workshop *Clinical practice, radiobiology and physics*

Thursday September 29, 2016

Venue: SCK•CEN Lake house, Auditorium, Boeretang 201, 2400 Mol, Belgium

9:30 – 10:00	Welcome reception
10:00 – 10:10	Welcome by Frank Deconinck (BHTC) and Sarah Baatout (SCK•CEN)
10:10 – 10:40	Complete control of respiratory motion: mechanical ventilation is the way forward for Radiotherapy and Medical Imaging Michael Parkes (University & Queen Elizabeth Hospital, Birmingham, UK)
10:40 – 11:05	The introduction of ParTICLe in Belgium Sofie Isebaert (KU Leuven)
11:05 – 11:30	Particle biology: what we know and don't know Marjan Moreels (SCK•CEN)
11:35 – 12:00	Metallic nanoparticles in proton therapy: in silico insights with Geant4 Anne-Catherine Heuskin (UNamur)
12:00 – 13:10	Lunch + poster viewing
13:10 – 13:40	Research perspectives related to the Charleroi Proton therapy centre Serge Goldman (ULB)
13:40 – 14:00	How do different radiation qualities affect the Hedgehog signaling pathway? Katrien Konings (SCK•CEN)
14:00 – 14:20	The role of micro- and nanodosimetry in hadrontherapy Sabina Chiriotti (SCK•CEN)

14:20 – 15:00	Short oral presentation of selected abstracts
	<ul style="list-style-type: none"> - 14:20-14:30 Steven Michiels (KUL): <i>Integrate range shifter in immobilization for proton therapy: 3D printed materials characterization</i> - 14:30-14:40 Roel Quintens (SCK•CEN): <i>Transcriptional response of human peripheral blood mononuclear cells following exposure to X-rays and carbon ions</i> - 14:40-14:50 Sébastien Penninckx (UNamur): <i>Unravelling the Mechanism Responsible for the Radiosensitization of Gold Nanoparticles in Protontherapy</i> - 14:50-15:00 Géraldine Genard (UNamur): <i>Influence of Tumor Associated Macrophages on the response of cancer cells to protontherapy</i>
15:00 – 15:30	Coffee break
15:30 – 16:00	Present and future of Hadron therapy: a vendor's viewpoint
	Damien Bertrand (Ion Beam Applications, Belgium)
16:00 – 16:30	The need for radiotherapy in Europe: where do we stand and where are we heading for?
	Yolande Lievens (UGhent)
16:30 – 17:00	Round table and concluding remarks
	Didier Vander Steichel (Foundation against cancer, Belgium)

Organisers: SCK•CEN, UNamur – Narilis, BHTC

Deadline abstract submission: August 15, 2016 to marjan.moreels@sckcen.be

Deadline for registration: September 1st, 2016

Registration is free of charge, but compulsory. Please register via the registration on the website.

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