



Friday 22th June 2018



Scientific project day – RKF radiotherapy

Erasmus MC – Molewaterplein 40, 3015 GD Rotterdam

Building: Ec – room (Ec-390): Collegezaal 4

Program

09:30 – Welcome with coffee

10:00 – First scientific session

- 10:00 Laura van Heerden (Erasmus MC): Feasibility of electromagnetic tracking for treatment verification in prostate brachytherapy
- 10:20 Coen Windmeijer (AMC): An international collection of pediatric imaging data
- 10:40 Brent van der Heyden (Maastr): Multi-atlas and deep learning based automatic contouring in CT images
- 11:00 Alba Magallon Baro (Erasmus MC): Principal component analysis of daily changes in OAR anatomy in a cohort of Pancreatic cancer patients
- 11:20 Mick Boekhoff (UMC Utrecht): MRI Registration and Analysis of Interfraction Esophageal Cancer Tumor Motion

11:40 – Lunch and site visit

12:40 – Invited talk

- 12:45 Peter Dendooven (KVI): Imaging for proton therapy: research at KVI-CART

13:30 – Second scientific session

- 13:30 Ikechi Ozoemelum (KVI): Very short-lived positron emitters for range verification
- 13:50 Eelco Lens (TU-Delft): Using prompt gamma emission profiles to monitor day-to-day dosimetric changes in proton therapy
- 14:10 Lydia Den Otter (UMCG): Treating moving targets with scanned proton therapy: Is 5 mm initial tumour motion a safe threshold?
- 14:30 Elske Gort (UMCG): In silico evaluation of VMAT and IMPT for cervix cancer

14:50 – Coffee break

15:20 – Third scientific session

- 15:20 Alberto Traverso (Maastr): Better data, better models, better (shared) decisions: building knowledge from big clinical data
- 15:40 Catarina Fernandes (NKI – AvL): Magnetic resonance imaging of recurrent prostate cancer: from diagnosis to target definition for focal salvage
- 16:00 Rens van Haveren (Erasmus MC): Automated configuration of a treatment planning algorithm using a database of prior prostate cancer treatment plans
- 16:20 Hans Ligtenberg (UMC Utrecht): PET-based automatic segmentation of laryngeal and hypopharyngeal tumors validated by pathology
- 16:40 Karen Ortega Marin (Catharina Ziekenhuis): SUV metrics and motion recovery in 4D PET/CT in a multicentre phantom study

17:00 – Closure with drinks

17:30 – End