



Radiation Oncology Course 2010

Biological, Physical and Clinical Aspects

In the AIO course the rationale for the use of radiotherapy in oncological patients will be elucidated. Topics of the course include: effects of irradiation on DNA, the cellular basis of radiotherapy, radiation injury to tumours and normal tissues, the physical principles of radiotherapy and the use of radiotherapy in the treatment of common malignant diseases. Practical work in treatment planning of a virtual patient is part of the course. New and exciting developments in radiotherapy will be addressed as well

The course is open to OOA PhD students and other interested people

Date:	31 May – 4 June 2010
Location:	VUmc
Info + Registration:	www.ooa-graduateschool.org
Registration deadline:	3 May 2010





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Provisionary Programme

31 May 2010

Morning	Welcome and introduction Will we cure cancer? Introduction to radiotherapy
Afternoon	Radiobiology: DNA damage and repair Physics: external beam radiotherapy & brachytherapy

01 June 2010

Morning	Cellular radiobiology Molecular radiobiology
Afternoon	Physics: target localization & treatment techniques Radiobiology of normal tissues

02 June 2010

Morning	Clinical radiobiology Hyperthermia Stereotactic radiotherapy
Afternoon	IMRT and protons Treatment planning + tour of department

03 June 2010

Morning	Imaging in radiotherapy Breast cancer Genomics in breast cancer
Afternoon	Gynecological tumors Head and neck cancer

04 June 2010

Morning	Lung cancer Prostate cancer
Afternoon	Research opportunities Evaluation and closing