

2017 ESTRO SCHOOL LIVE COURSE



Basic Clinical Radiobiology

16-20 September 2017
Paris, France

COURSE AIM

The aim is to provide an introduction to radiation biology as applied to radiotherapy. It will cover the basic mechanisms of cell death/survival and the radiation response of tumours and normal tissues. Formulas of tissue tolerance will be explained. The biological basis for current approaches to the improvement of radiotherapy will be described including novel fractionation schemes, retreatment, IMRT, modification of hypoxia, hadron therapy, combined radiotherapy/chemotherapy and biological modifiers of tumour and normal tissue effects.

LEARNING OUTCOMES

By the end of this course participants should be able to:

- Understand the biology of how ionising radiation is able to effectively treat cancer
- Distinguish radiotherapy and its advantages from other cancer therapies
- Have the essential knowledge of radiobiology necessary for qualifying examination

COURSE CONTENT

- A series of basic lectures introducing molecular and clinical radiobiology
- Mechanisms and models of radiation cell killing
- The linear-quadratic approach to fractionation
- Molecular basis of radiation response
- Radiobiology and tolerance of normal tissues to (re)treatment
- Alternative fractionation schedules in radiotherapy
- Tumour hypoxia and the microenvironment
- Combined radiotherapy and chemotherapy
- The volume and dose-rate effect in radiotherapy

- Biological response modifiers (tumours, normal tissues) and molecular approaches to therapy
- Protons and other particles in radiotherapy
- Radiation-induced malignancies.

PREREQUISITES

Before commencing this course you should:

- Ensure your knowledge of basic biology and physics is at least high-school level
- Familiarise yourself with access to journals covering radiobiology related to radiotherapy

TEACHING METHODS

- 27 hours of lectures
- 3 hours of tutorials
- 4 hours of discussions

METHODS OF ASSESSMENT

- MCQ
- Evaluation form

ROADMAP



BIOLOGY



RADIATION ONCOLOGIST, MEDICAL PHYSICIST,
RADIOBIOLOGIST, RADIATION THERAPIST

COURSE DIRECTOR

Michael Joiner (USA)

TEACHERS

Rob Coppes (NL)
Wolfgang Dörr (AT)
Vincent Grégoire (BE)
Karin Haustermans (BE)
Marianne Koritzinsky (CA)

LOCAL ORGANISER

Eric Deutsch
Radiation Oncologist
Institut Gustave Roussy (FR)

PROJECT MANAGER

Laura La Porta

WORKING SCHEDULE

The course starts on 16 September 2017 at 9:00 and ends on 20 September 2017 at 12.30.

LANGUAGE

The course is conducted in English.
No simultaneous translation will be provided.

COURSE ORGANISATION

For any further information please contact ESTRO:
Laura La Porta
E-mail: llaporta@estro.org
Tel : +32 2 775 93 54 - Fax : +32 2 779 54 94

COURSE VENUE

Institut Gustave Roussy
Espace Maurice-Tubiana (next to Campanile Hotel)
Rue du Docteur Pinel
94800 Villejuif, France

TECHNICAL EXHIBITION

Companies interested in exhibition opportunities during this teaching course should contact ESTRO:
Laura La Porta
E-mail: llaporta@estro.org
Tel : +32 2 775 93 54 - Fax : +32 2 779 54 94

ACCOMMODATION

To book your room, please download the accommodation form from the ESTRO website:
www.estro.org/school

PARTICIPANTS SHOULD REGISTER ONLINE AT: WWW.ESTRO.ORG/SCHOOL

These pages offer the guarantee of secured online payments. The system will seamlessly redirect you to the secured website of OGONE (see www.ogone.be for more details) to settle your registration fee.

If online registration is not possible please contact us:

ESTRO OFFICE

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E-mail: education@estro.org

REGISTRATION FEES

Please check the early deadline date on our website

	EARLY FEE	LATE FEE
In-training members*	450 €	625 €
Members	600 €	725 €
Non members	750 €	850 €

*Radiation Therapist (RTT) members are eligible for the in-training fee

The fee includes the course material, coffees, lunches, and the social event.

Reduced fees are available for ESTRO members working in economically less competitive countries. Check the eligible countries and the selection criteria on the website of the ESTRO School.

ESTRO goes green: Please note that the course material will be available online. No course book will be provided during the courses.

ADVANCE REGISTRATION AND PAYMENT ARE REQUIRED. ON-SITE REGISTRATION WILL NOT BE AVAILABLE.

Since the number of participants is limited, late registrants are advised to contact the ESTRO office before payment, to inquire about availability of places. Access to homework and/or course material will become available upon receipt of full payment.

INSURANCE AND CANCELLATION

The organiser does not accept liability for individual medical, travel or personal insurance. Participants are strongly advised to take out their own personal insurance policies.

In case an unforeseen event would force ESTRO to cancel the meeting, the Society will reimburse the full registration fees to the participants, ESTRO will not be responsible for the refund of travel and accommodation costs.

In case of cancellation, full refund of the registration fee minus 15% for administrative costs may be obtained up to three months before the course and 50% of the fee up to one month before the course. No refund will be made if the cancellation request is postmarked less than one month before the start of the course.