



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

Gemelli



Fondazione Policlinico Universitario Agostino Gemelli IRCCS
Università Cattolica del Sacro Cuore

ART
Advanced Radiation
Therapy



Modern Radiation Oncology. Innovation in personalised oncology: back to the future

33° RESIDENTIAL COURSE

9 | 10 | 11 October 2023

Fondazione Policlinico Universitario A. Gemelli IRCCS
Largo A. Gemelli, 8 - Roma - Aula Brasca

Scientific Coordinators *M.A. Gambacorta, V. Valentini, L. Indovina*

Honorary Presidents *C.A. Perez †, N. Cellini*



Associazione Italiana
Radioterapia e Oncologia clinica

Endorsed by
ESTRO



8.00-8.30 **Registration**

8.30-9.00 **WELCOMING**

A. Gasbarrini (Dean of UCSC Faculty of Medicine),
G. Scambia (IRCCS Scientific Director), V. Valentini
N. Cellini

9.00-9.15 **COURSE AIM LECTURE** M.A. Gambacorta, L. Indovina⁽¹⁵⁾

9.15-9.30 **Onlus - BLUD (Banca del Latte Umano Donato)** G. Vento⁽¹⁵⁾

9.30-10.00 **OPENING LECTURE**

CHAIRS: A.G. Morganti, M.E. Rosetto

Cycles in Radiation Therapy innovations J. Overgaard⁽²⁵⁾

10.00-10.30 **Coffee break**

Sponsored lecture - AULA VITO (no ECM)

10.30-11.45 **SESSION 1: BACK TO THE FUTURE: LOCAL TREATMENTS**

CHAIRS: R. Pacelli, F. Deodato

- From 2D to 3D: Learned clinical needs for modern treatments K. Haustermans⁽¹⁵⁾
- IMRT and beyond: what should we not forget? U. Ricardi⁽¹⁵⁾
- From 2D to 3D: Learned physics needs for modern treatments N. Jorner⁽¹⁵⁾
- 'Modern' dose distributions: what should we not forget? U. van der Heide⁽¹⁵⁾

Q&A⁽¹⁵⁾

11.45- 12.45 **SESSION 2: BACK TO THE FUTURE: SYSTEMIC TREATMENTS**

CHAIRS: L. Livi, R.M. D'Angelillo

- The chemotherapy journey: learned clinical needs for modern treatments G. Tortora⁽¹⁵⁾
- 5FU, cisplatin & radiotherapy: a history of love C.M. Rodel⁽¹⁵⁾
- New drugs & radiotherapy: what should we not forget? R. Glynn-Jones⁽¹⁵⁾

Q&A⁽¹⁵⁾

12.45-13.15 **KEYNOTE LECTURE 1: BACK TO THE FUTURE: HISTORY OF IMAGING
IN RADIATION ONCOLOGY** V. Grégoire⁽²⁵⁾

CHAIR: M.A. Gambacorta

13.15-14.15 **Lunch**

Sponsored lecture - AULA VITO (no ECM)

14.15-15.15 **SESSION 3: IMAGING AND AI**

CHAIRS: *S. Pergolizzi, M.F. Osti*

- Quantitative imaging for radiation oncologists *E. Sala* ⁽¹⁵⁾
- Modern imaging and AI applications in external beam radiotherapy *L. Boldrini* ⁽¹⁵⁾
- Modern imaging and AI applications in interventional radiotherapy *L. Tagliaferri* ⁽¹⁵⁾

Q&A ⁽¹⁵⁾

15.15-15.45 **KEYNOTE LECTURE 2: BACK TO THE FUTURE: EDUCATION AND INNOVATION**

J. Ericksen ⁽²⁵⁾

CHAIR: *S. Magrini*

15.45-17.30 **Laboratories for complex problem-solving in radiotherapy**

Lab 1: Interventional RT - AULA BRASCA

CHAIR: *L. Tagliaferri*

CASE PRESENTERS: *A. Vavassori, L. Vicenzi*

DISCUSSANTS: *V. Lancellotta, B. Fionda, E. Placidi, P. Cornacchione, G. Kovacs
G.C. Mattiucci*

Lab 2: CT-guided RT - AULA FORUM

CHAIR: *N. Dinapoli*

CASE PRESENTERS: *S. Ramella, R.M. D'Angelillo, D. Genovesi*

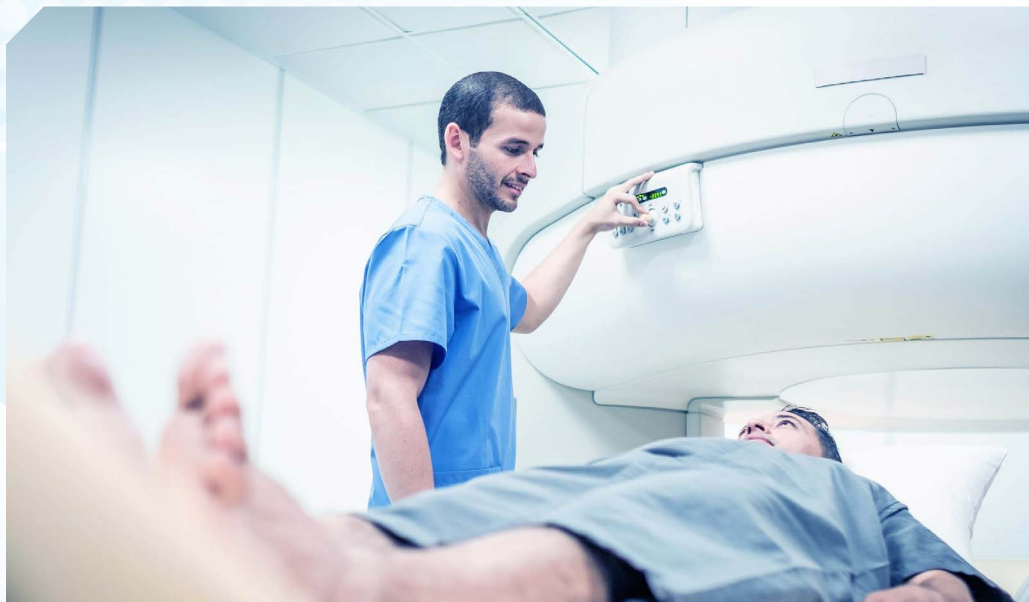
DISCUSSANTS: *M. Massaccesi, S. Manfrida, G. Stimato, D. Cusumano, C. Votta
F. Miccichè*

Lab 3: MR-guided RT - AULA RATTI

CHAIR: *L. Boldrini*

CASE PRESENTERS: *F. Alongi, P. Gentile*

DISCUSSANTS: *G. Chiloiro, L. Placidi, A. Romano, F. Catucci, M.V. Antonelli*





8.30-9.00 **Sponsored lecture - AULA VITO** (no ECM)

9.00-10.15 **SESSION 4: BACK TO THE FUTURE: PATHOLOGY**

CHAIRS: *M. Mangoni, M. Buglione di Monale e Bastia*

- Pathology driven oncology: learned clinical needs for modern treatments *G. Zannoni*⁽²⁰⁾
- Molecular driven oncology: future directions *C. Nero*⁽²⁰⁾
- Is pathology more than a specimen? *K. Zormpas Petridis*⁽²⁰⁾

Q&A⁽¹⁵⁾

10.15-10.45 **KEYNOTE LECTURE 3: BACK TO THE FUTURE: IMMUNOTHERAPY & RADIOTHERAPY**

P. Lambin⁽²⁵⁾

CHAIR: *B.A. Jerezcek*

10.45-11.15 **Coffee break**

11.15-12.30 **SESSION 5: BACK TO THE FUTURE: HEAD AND NECK CANCER**

CHAIRS: *A. Fiorentino, G. Minniti*

- Target volumes: needs learned for modern treatments *V. Grégoire*⁽¹⁵⁾
- Fractionation: needs learned for modern treatments *P.L. Bonomo*⁽¹⁵⁾
- Old and new drugs: needs learned for modern treatments *A. Cassano*⁽¹⁵⁾
- Interventional radiotherapy in the adaptive management *B. Fionda*⁽¹⁵⁾

Q&A⁽¹⁵⁾

12.30-13.00 **KEYNOTE LECTURE 4: BACK TO THE FUTURE: PREDICTING PATIENT OUTCOMES FROM EBM TO DIGITAL TWIN, A. Dekker**⁽²⁵⁾

CHAIR: *M. Krengli*

13.00-14.00 **Lunch**

Sponsored lecture - AULA VITO (no ECM)

14.00-14.30 **KEYNOTE LECTURE 5: BACK TO THE FUTURE. MANAGEMENT OF THE INNOVATION: THE MEDICAL PHYSICIST POINT OF VIEW D. Verellen**⁽²⁵⁾

CHAIRS: *L. Indovina, G. Gagliardi*

14.30-15.45: **SESSION 6: BACK TO THE FUTURE: NSCLC CANCER**

CHAIRS: *D. Genovesi, S. Ramella*

- Target volumes: needs learned for modern treatments *Y. Lienvens*⁽¹⁵⁾
- Fractionation: needs learned for modern treatments *C. Le Pechoux*⁽¹⁵⁾
- Old and new drugs: needs learned for modern treatments *M. Di Salvatore*⁽¹⁵⁾
- Adaptive management: what have we not to forget? *E. Troost*⁽¹⁵⁾

Q&A⁽¹⁵⁾

15.45-17.00: **SESSION 7: BACK TO THE FUTURE:
PELVIS (PROSTATE, RECTUM, CERVIX)**

CHAIRS: *G. Macchia, S. Arcangeli*

- The rectal cancer journey: what have we not to forget? *G. Chiloiro*⁽¹⁵⁾
- The prostate cancer journey: what have we not to forget? *T. Zilli*⁽¹⁵⁾
- Old and new drugs in genitourinary tumors: what have we not to forget? *R. Iacovelli*⁽¹⁵⁾
- The cervix and endometrial cancer journey: what have we not to forget? *D. Lorusso*⁽¹⁵⁾

Q&A⁽¹⁵⁾





8.30-9.00 **KEYNOTE LECTURE 6: BACK TO THE FUTURE: UNCONVENTIONAL FRACTIONATION**
J. Bourhis⁽²⁵⁾

CHAIR: *F. Pairar*

9.00-10.15 **SESSION 8: BACK TO THE FUTURE: BREAST CANCER**

CHAIRS: *C. Aristei, G. Mantello*

- Target volumes: needs learned for modern treatments *M. Machiels*⁽¹⁵⁾
- Fractionation: needs learned for modern treatments *I. Meattini*⁽¹⁵⁾
- Old and new drugs: needs learned for modern treatments *A. Fabi*⁽¹⁵⁾
- Adaptive management: what have we not to forget? *B. Offeren*⁽¹⁵⁾

Q&A⁽¹⁵⁾

10.15-11.30 **SESSION 9: BACK TO THE FUTURE: HOLISTIC APPROACH**

CHAIRS: *D. Chieffo, P. Cornacchione*

- Toxicity management: doctor and patient's perspective *G.F. Colloca*⁽¹⁵⁾
- Radiotherapy: aiming at the patient in a technology driven environment *M. Mast*⁽¹⁵⁾
- Mind, soul and body: the thin line of connection *L. Dinapoli*⁽¹⁵⁾
- Integrated therapies in oncology *S. Magno*⁽¹⁵⁾

Q&A⁽¹⁵⁾

11.30-12.15 **Brunch** (salty)

Sponsored lecture - aula 402 (no ECM)

12.15-12.45 **KEYNOTE LECTURE 7: BACK TO THE FUTURE: HUMANISTIC GUIDED RT** *V. Valentini*⁽²⁵⁾

CHAIR: *C. Iotti*

12.45-13.15 **End of the course and ECM questionnaires**

Faculty

Filippo ALONGI	Verona (IT)	Domenica LORUSSO	Roma (IT)
Marco Valerio ANTONELLI	Roma (IT)	Gabriella MACCHIA	Campobasso (IT)
Stefano ARCANGELI	Milano (IT)	Melanie MACHIELS	Lovanio (BE)
Cynthia ARISTEI	Perugia (IT)	Stefano MAGNO	Roma (IT)
Luca BOLDRINI	Roma (IT)	Stefano Maria MAGRINI	Brescia (IT)
Pier Luigi BONOMO	Roma (IT)	Stefania MANFRIDA	Roma (IT)
Jean BOURHIS	Geneve (CH)	Monica MANGONI	Firenze (IT)
Michela BUGLIONE DI MONALE E BASTIA	Brescia (IT)	Giovanna MANTELLO	Ancona (IT)
Calogero CASA	Roma (IT)	Mariangela MASSACCESI	Roma (IT)
Alessandra CASSANO	Roma (IT)	Mirjam MAST	Leidschendam (NL)
Francesco CATUCCI	Olbia (IT)	Gian Carlo MATTIUCCI	Olbia (IT)
Francesco CELLINI	Roma (IT)	Icro MEATTINI	Firenze (IT)
Numa CELLINI	Roma (IT)	Francesco MICCICHE'	Roma (IT)
Daniela Pia Rosaria CHIEFFO	Roma (IT)	Giuseppe MINNITI	Siena (IT)
Giuditta CHILOIRO	Roma (IT)	Alessio Giuseppe MORGANTI	Bologna (IT)
Giuseppe Ferdinando COLLOCA	Roma (IT)	Camilla NERO	Roma (IT)
Patrizia CORNACCHIONE	Roma (IT)	Birgitte Vrau OFFERSEN	Risskov (DK)
Davide CUSUMANO	Olbia (IT)	Mattia Falchetto OSTI	Roma (IT)
Rolando Maria D'ANGELILLO	Roma (IT)	Jens OVERGAARD	Aarhus (DK)
Andrea D'AVIERO	Olbia (IT)	Roberto PACELLI	Napoli (IT)
Andre DEKKER	Maastricht (NL)	Fabiola PAIAR	Pisa (IT)
Francesco DEODATO	Campobasso (IT)	Stefano PERGOLIZZI	Messina (IT)
Mariantonietta DI SALVATORE	Roma (IT)	Elisa PLACIDI	Roma (IT)
Loredana DINAPOLI	Roma (IT)	Lorenzo PLACIDI	Roma (IT)
Nicola DINAPOLI	Roma (IT)	Sara RAMELLA	Roma (IT)
Jesper Grau ERIKSEN	Aarhus (DK)	Umberto RICARDI	Torino (IT)
Alessandra FABI	Roma (IT)	Claus RÖDEL	Francoforte (DE)
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Maria Antonietta GAMBACORTA	Roma (IT)	Giovanni SCAMBIA	Roma (IT)
Antonio GASBARRINI	Roma (IT)	Gerardina STIMATO	Roma (IT)
Domenico GENOVESI	Chieti (IT)	Luca TAGLIAFERRI	Roma (IT)
Piercarlo GENTILE	Roma (IT)	Giampaolo TORTORA	Roma (IT)
Robert GLYNNE-JONES	Londra (UK)	Esther TROOST	Dresden (DE)
Vincent GRÉGOIRE	Lyon (FR)	Vincenzo VALENTINI	Roma (IT)
Karin HAUSTERMANS	Leuven (BE)	Uulke VAN DER HEIDE	Amsterdam (NL)
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Luca INDOVINA	Roma (IT)	Dirk VERELLEN	Antwerp (BE)
Cinzia IOTTI	Reggio Emilia (IT)	Lisa VICENZI	Roma (IT)
Barbara JERECZEK	Milano (IT)	Claudio VOTTA	Roma (IT)
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Philippe LAMBIN	Maastricht (NL)		
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CPS (ECM) Training Objective no. 18: Technical professional contents (knowledge and skills) specific to each profession, each specialization and each ultra-specialist activity, including rare diseases and gender medicine.

THE COURSE IS ACCREDITED FOR: **Radiation Oncologists, Medical Oncologists, Medical Physicists, RTTs/TRs.**

There are **15 CPS (ECM)** credits for those who will attend the course in-person but remember that the requirement to receive the credits is the possession of a degree and specialization, otherwise you can follow the course via web.

The exhibition hall is open from **9 -11 October 2023**, all day, with the exception of lesson time.

For those interested, it is possible to register by **September 29, 2023** on the website of the Catholic University of the Sacred Heart: www.unicatt.it, or, directly at these links:

In presence CPS (ECM):
http://fopecom-rm.unicatt.it/fopecomonline/default_eng.aspx?Edizione=1&IdEvento=9716

Remote participation no CPS (non ECM):
http://fopecom-rm.unicatt.it/fopecomonline/default_eng.aspx?Edizione=1&IdEvento=10249

The registration fees for the course are: **€ 200.00** in presence - **€ 100.00** remote participation.

We have also provided free registration for all **Medical Physics, Radiotherapy and Medical Oncology** in training staff (to be written in the registration notes).

With the unconditional contribution of



Scientific Advisory Board 2023: F. Cellini, F. Deodato, A. Fiorentino, G. Macchia, G.C. Mattiucci, F. Miccichè, A.G. Morganti

Scientific Secretariat 2023: L. Boldrini, C. Casà, A. D'Aviero, L. Tagliaferri