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Artificial Intelligence in Radiation Oncology:

FROM FOUNDATIONS TO CLINICAL INTEGRATION

15th january 2026 at Genolier Innovation Hub, Switzerland

International in person course
Conducted by Dr. Arnaud Beddok, MD PhD
Endorsed by ESTRO
English-spoken

Main learning objective:
to recognise the conception and the practical uses of artificial intelligence tools in radiation oncology

Duration
8 hours

Place
Genolier Innovation Hub
Route du Muids 3
1272 Genolier, Switzerland

Deadline for registration
20th december 2025
c-pinto@unicancer.fr

Price per participant
850€ **taxes included**

Limited places

Details
Administrative features
Céline Pinto
c-pinto@unicancer.fr
Scientific features
Arnaud Beddok
a.beddok@gmail.com

Target audience
Radiation oncologists, medical physicists, dosimetrists, RTTs, department heads, healthcare administrators

Degree required
From beginner to expert

Requirements
None

Assessment procedures
Before the course
Placement questionnaire
During the course
Formative & sommative assessments
After the course
End of course questionnaire
Satisfaction questionnaire

Organisational features
Lunch included
Transport and accomodation at trainees' expense

Accessible to people with disabilities
For any specific request, please contact our disability officer
David Aubry
d-aubry@unicancer.fr

LEARNING OBJECTIVES

Identify and **explain** the key principles of artificial intelligence algorithms and their relevance to medical imaging and radiation oncology workflows.

Evaluate the clinical integration of AI tools in radiation oncology, including segmentation, adaptive workflows, and predictive modelling.

TOPICS

Opening session
Dr. Arnaud Beddok (Institut Godinot, France)

Foundations of AI in Medicine: Concepts, Data, and Law
Prof. Stéphanie Allassonnière PhD (Université Paris Cité, France), Dr Arnaud Beddok MD PhD, Prof. Noémie Elhadad PhD (Columbia University , USA) & Judge Moïse Serero (Tribunal des activités économiques de Paris, France)

Clinical AI in Radiotherapy: From Segmentation to Dosimetric Applications
Prof. Thibaut Marin PhD (Yale School of Medicine, USA), Dr. Loïg Vaugier MD PhD & Dr. Alexandra Moignier PhD (ICO, France), Dr. Eliana Vasquez-Osorio PhD (University of Manchester, UK) & Kélian Poujade MSc (IUCT-Oncopole, France)

Radiomics & Predictive Modelling
Prof. Laurent Dercle MD PhD (MSKCC, USA) & Prof. Laura Rozenblum MD PhD (Sorbonne Université, France)

Ethics, Bias & Societal Impact: Designing Responsible Oncology Tools
Prof. Bernice Simone Elger PhD (University of Basel, Switzerland), Dr. Kamyar Shahrooz EdD (Northeastern University, USA) & Mickaël Berrebi (Groupe Diot-Siaci, France)

Final Discussion – Open Questions & Future Perspectives

METHOD, TECHNIQUES, TEACHING MATERIALS

Method: Active teaching, demonstration, peer feedback
Techniques:
Interactive discussions throughout the session.
Participants can ask questions live.
Quizzes and real-life case studying are part of the training.
Teaching materials: Presentations & minutes

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Artificial Intelligence in Radiation Oncology:

FROM FOUNDATIONS TO CLINICAL INTEGRATION

16th january 2026 at Genolier Innovation Hub, Switzerland

Optional hands-on workshop
Conducted by Dr. Arnaud Beddok, MD PhD
English-spoken

Main learning objective:
to use AI tools in radiotherapy departments

Duration
3.5 hours

Place
Genolier Innovation Hub
Route du Muids 3
1272 Genolier, Switzerland

Deadline for registration
20th december 2025
c-pinto@unicancer.fr

Price per participant

200€ **taxes included**

Limited places

Details
Administrative features
Céline Pinto
c-pinto@unicancer.fr
Scientific features
Arnaud Beddok
a.beddok@gmail.com

Target audience
Radiation oncologists, medical physicists, dosimetrists, RTTs, department heads, healthcare administrators

Degree required
From beginner to expert

Requirements
None

Organisational features
Lunch included
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LEARNING OBJECTIVES

Apply knowledge acquired in adaptative radiotherapy

Apply knowledge acquired in motion management

TOPICS

Choose from two parallel workshops focused on practical, case-based learning:

Workshop A: Adaptative Radiotherapy in Practice

Dr Susan Lalondrelle MD PhD (The Royal Mardsen NHS Foundation Trust, United Kingdom)
Dr Sebastian Klüter PhD (Unvesity Hospital Heidelberg, Germany)

Workshop B: Managing Motion

Fabien Lebeaux (Accuray, Switzerland)

METHOD, TECHNIQUES, TEACHING MATERIALS

Method: Active teaching, demonstration, peer feedback

Techniques:
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Quizzes and real-life case studying are part of the training.

Teaching materials: Presentations & minutes